

# **American Materia Medica, Therapeutics and Pharmacognosy**

**Developing the Latest Acquired Knowledge of  
Drugs, and Especially of the Direct Action of  
Single Drugs Upon Exact Conditions of Disease,  
with Especial Reference of the Therapeutics of  
the Plant Drugs of the Americas.**

**By  
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Abridged to include only the botanical entries,  
and arranged in alphabetical order by latin names

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## **ABIES.**

## ***Abies canadensis***

Synonym—Hemlock spruce.

### **CONSTITUENTS—**

Tannic acid, resin, volatile oil.

**Canada pitch**, or gum hemlock, is the prepared concrete juice of the *pinus canadensis*. The juice exudes from the tree, and is collected by boiling the bark in water, or boiling the hemlock knots, which are rich in resin. It is composed of one or more resins, and a minute quantity of volatile oil. *Canada pitch* of commerce is in reddish-brown, brittle masses, of a faint odor, and slight taste.

*Oil of hemlock* is obtained by distilling the branches with water. It is a volatile liquid, having a terebinthinate odor and taste.

### **PREPARATIONS—**

**Canada Pitch Plaster**

**Tincture of the fresh hemlock boughs**

**Tincture of the fresh inner bark.**

**Specific Medicine Pinus.** Dose, from five to sixty minims.

The *hemlock spruce* produces three medicines; the gum, used in the form of a plaster as a rubifacient in rheumatism and kindred complaints; the volatile oil—*oil of hemlock*—or a tincture of the fresh boughs, used as a diuretic in diseases of the urinary organs, and wherever a terebinthinate remedy is indicated; and a tincture of the fresh inner bark, an astringent with specific properties, used locally, and internally in catarrh.

**Therapy**—Gastric irritation and vomiting in cholera morbus, leucorrhœa, prolapsus uteri, chronic diarrhea and dysentery, irritation of the urinary organs, croup, rheumatism, eczema asthenic catarrhal conditions, with feeble digestion, and pallid mucous membranes, profuse bronchial secretion.

A tincture from the fresh boughs, or the oil, is a diaphoretic and diuretic, and may be employed internally, and as a medicated vapor bath in rheumatism, pleurisy orchitis from mumps, peritonitis, and all inflammations caused by cold. Internally it may be given in the gastric irritation of cholera mor. bus, and -in irritation of the urinary organs. The



vesical renal or urethral irritation; acute or chronic **Bright's disease** in its incipient stage. **Leucorrhœa**, with relaxed vaginal walls. **Menorrhagia** and **amenorrhœa**; **hemorrhoids**, with bloody discharge, atonic gastric and intestinal dyspepsia; passive hemorrhages.

Of specific achillea the dose is from five to ten minims.

**Therapy**—While the profession has used yarrow but little, we find an individual physician occasionally who depends upon it for some very important conditions. Dr. Lakin of England uses it in **hematuria**. He claims that it is good in all forms of passive hemorrhage, whether of the lungs or of the kidneys, or **uterine hemorrhage**. *Yarrow* is advised by Webster in **uterine hemorrhage**. It is a mild astringent, probably acting also as a tonic. It is useful in passive hemorrhage when not persistent in character.

It is a beneficial remedy in diseases of the mucous surfaces, relieving irritation and profuse secretion. It soothes **intestinal irritation** and overcomes mild forms of diarrhea. It is of benefit in improving the **tone** of the **urinary apparatus**, relieving irritation, overcoming strangury and suppression of the urine.

It acts best in strong infusion and its use must be persisted in. In general relaxed conditions it is a cure for **leucorrhœa**, where there is a profuse discharge, or thick, heavy mucus from enfeebled mucous membranes.

Dr. John Fearn, of Oakland, California, claims that it has but few superiors in its **influence** upon the **skin**. He says it has a stimulating action which will be a revelation to those who have not used it. It causes the sudoriferous glands to literally pour out their secretions, and with but little depression.

He claims that it will take the place of pilocarpine, with less unpleasant results, and no danger. In **fevers**, he says, especially of the **sthenic** type, when we desire to arouse the skin, nothing can surpass this remedy. The patient is covered warmly in bed and a hot infusion of *Yarrow* is given in frequent doses. When the skin begins to soften the medicine is continued, but in less doses. If there are evidences of autoinfection, from retained secretion, a little *capsicum* can be added to the infusion. In cases of severe fever, in the first stage, intermittent or bilious fever, it will cause the secretions to be poured out so freely as to discolor the bed clothes.

A syrup made from the leaves relieves chronic cough, especially if there be bloody sputum.

Where there is deficient kidney action, with evidence of **uremic poisoning**, with or without **edema**, this remedy is a very active eliminant. It will take the place of a vapor bath, and that without exhaustion, the patient being very comfortable all the while. It will abort **fevers**, **reduce high temperatures**, in sthenic cases will relieve local and general **congestion**, will restore the secretions, will open the sluice gates of the skin, and eliminate morbid materials.

It was one of the remedies which the ancients used in the healing of wounds. Lakin quotes from an old volume, published in 1633, "The leaves of *yarrow* do close wounds and keep them from inflammation or fiery swelling. It stauncheth blood in any part of the body, and helpeth bloody flux. The leaves put into the nose, relieve headache. It taketh away the pain of cholic."

Dr. Cole of Seattle has confirmed in a practical manner the action of *achillea* on the skin. He has proved its action in indeterminate cases of **incipient fever**, where infection is the cause, but the character is not determined. *Achillea* and *phytolacca* he has used in **tonsillitis**. He has given it in dropsy with good advantage. In old standing cases with organic disease, he has used hair cap moss with it. He uses it in autotoxemia for its active elimination.

In acute **epididymitis** the temperature of 104 degrees, the condition was controlled in twenty-four hours with *achillea*. When there is no abnormal temperature, he believes that it has little but a diuretic action. Where there is a temperature of 100 or above, he has never failed to get profuse diaphoresis without depression. He considers it a certain remedy.

## **ACONITE.**

## ***Aconitum napellus.***

Synonym-Monkshood.

### **CONSTITUENTS—**

Aconitine, amorphous and crystalline; Pseudo-Aconitine, Aconine, Pseudo-Aconine, Picraconitine, Aconitic Acid, Sugar, Fat and Resin.

### **PREPARATIONS—**

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**Extractum Aconiti Radicis Fluidum**, Fluid Extract of Aconite Root.

Dose, one minim.

**Tinctura Aconiti Radicis**, Tincture of Aconite Root. Dose, from one to ten minims.

**Specific Medicine Aconite**. Dose, from one-twentieth to one-half minim.

**Aconitine Crystalline**. Dose, one five hundredth of a grain.

**Aconitine Amorphous**. Dose, one one-hundred and thirty-fourth of a grain.

**Physiological Action**—In a moderate dose of five minims of the tincture, a sense of numbness and tingling is felt in the tongue and lips, with muscular weakness and depression; by doubling the dose these symptoms are intensified and prolonged, the pulse falls and the breathing is slowed. A poisonous dose causes tingling in the skin, pain in the joints, vertigo, dimness of vision, extreme debility, pulse forty to fifty per minute and irregular, skin cool and moist, burning heat in the esophagus and stomach, nausea, vomiting and purging. There may be severe gastric and intestinal spasms, headache, complete loss of sight, hearing and speech, while consciousness remains; pupils dilated. muscles tremulous or convulsed, pulse imperceptible; death by syncope.

**Aconite** acts on the vaso-motor nervous system. It is a powerful depressant of the heart, and if given in sufficient quantity will paralyze that organ. Its apparent influence is upon the terminal filaments of the sensory nerves first, and afterwards, more slowly, upon the nerve trunks. It depresses the nerve centers of the cord, and destroys reflex activity and voluntary power.

A drop of a solution of **aconite** in the eye causes the pupil to contract. Larger amounts induce toxic symptoms, the principal of which are increase of tingling and numbness, excessive perspiration, rapidly lowering temperature, pupillary dilation, dimness of sight, loss of hearing and sense of touch, and diminished action of the sensory filaments supplying the skin.

Muscular weakness is marked; trembling and occasional convulsions may ensue. Excessive depression comes on, and the power of standing is early lost. The feet and legs become cold, the face pale, and the patient has a tendency to faint. There may be violent burning in the stomach with great thirst and dyspnea, and vomiting and diarrhea may occur. The pulse is weak, rapid, and almost imperceptible; acute, lancinating pain

may be felt, and more or less delirium may result, though as a rule the intellect remains unimpaired.

“The manner in which *aconite* affects the nervous system is not yet definitely known. That it is a heart paralyzer seems to be an accepted fact. Death may result from syncope, though usually it occurs from respiratory paralysis. The action of a lethal dose is rapid, toxic symptoms showing themselves within a few moments.” (Lloyd and Felter.)

**Administration**—In my earlier teachings of the action of this agent, I taught that it was a remedy for sthenic fevers only. I have since been convinced that its influence in very small and frequently repeated doses, greatly broadens its application. Homeopathic physicians class it as one of the most important agents and their dosage is always minute. In such dosage, with small, feeble, frequent or corded pulse, in adynamic or asthenic fevers, it may be given with excellent advantage.

It restores normal conditions, so strengthening the action of the heart as to even bring a subnormal temperature, in some such cases as in cholera and malignant intermittents up to the normal point. It acts in harmony with *belladonna* in equalizing the circulation, lessening determination of blood, increasing arterial tension and greatly improving the capillary circulation.

In **sthenic fevers** it may be given in larger doses, with a view to producing results which are in line with its physiological action. It is contraindicated in that dosage, however, when the sthenic stage is passed. It should be given, if at all, in very small doses. One drop of the specific medicine in a four ounce mixture, a teaspoonful every half hour or hour, will sometimes produce the best results in patients under twelve years of age. In the sthenic stage five drops of the specific or fifteen drops of the U. S. P. Tincture in a four ounce mixture, to be given in dram doses hourly, is usually required.

So common is the use of *aconite* in fevers that all practitioners with experience recognize the **indications**. One physician suggests that in **intestinal fevers** the results are not so satisfactory, because of the fact that intestinal toxemia is so persistent. If the intestinal tract can be thoroughly cleansed and the toxemic influences removed, then the remedy acts as in other fevers. The same is true of **septicemia** from local causes.

**Specific Symptomatology**—When the pulse is small, hard, quick and sharp, the skin dry and hot, the secretions suddenly suppressed, the temperature rising, chilliness up and down the spinal column, a shivering when the bed coverings are moved, or from a slight draft, or on the least exposure, the agent is directly indicated.

It is also indicated when the pulse is full and hard and sharp, with suppressed secretions in the initial stages of acute inflammation of any organ, and at the onset of protracted fevers and especially of exanthematous diseases.

In **asthenic fevers**, which are usually protracted, the pulse small, feeble, frequent, sometimes wiry and corded, with or without evidences of impairment of the capillary circulation, the agent is specifically demanded, but in small dosage. With these phenomena, its use may often be continued for a few days, then discontinued to be resumed later as before, if needed.

In the early stages of local inflammatory disorders, which involve the mucous membranes, where the secretions of these membranes are perverted or suppressed, the agent in small doses is indicated. This condition is found in laryngitis, tonsillitis and bronchitis, also in gastritis, colitis, or enteritis, and especially in cholera infantum.

**Therapy**—*Aconite* has become the greatest of the agents used by the profession in the control of fever; but its indication must be complied with.

At the onset of fever *Aconite* is the remedy. At that stage of the disease when the evidences of some disorder are apparent, and yet its localization can not be determined, the indications for treatment pronounced, why should the physician wait until a group of symptoms appears that has a name—that is known as disease—when the indications for one remedy are so conspicuous? We have known of many cases where all the evidences of approaching inflammation were plainly apparent, where the initial fever has been promptly met with *Aconite* and no inflammatory condition has ever developed. It is the experience of all physicians.

*Aconite* is specifically **the fever remedy in childhood**. Infants are susceptible to minute doses often repeated, and it is kind and soothing in its action. Five drops of the tincture to four ounces of water given in



teaspoonful doses every hour is the usual maximum dose for a child one year of age. Because of its prompt action and ready elimination the doses must be given frequently.

In **severe fevers**, it is better to give one half teaspoonful every half hour. As soon as the sedative influence is apparent, the skin becomes moistened, the restlessness abates and the temperature falls, the doses must be reduced in size or in frequency until no longer indicated. Simple fevers will abate in from four to twelve hours under this administration of *Aconite*.

*Aconite* promotes tone and power in the arterial capillaries, and is opposed to blood stasis. In this influence it has a powerful auxiliary in belladonna. The two agents, in small doses, work harmoniously in incipient inflammation. Their combined influence in capillary engorgement is most salutary.

At the onset of inflammation, the synthetic heart depressants will perhaps stay the fever, but their influence is not so beneficially exercised upon the inflammatory processes. If inflammation is in progress they will not dissipate its results. *Aconite* retards pathologic exudation, suppuration, adhesion, induration and hypertrophy. This can by no means be as truly said of any other agent. *Aconite* certainly antagonizes inflammation or inflammatory processes and their results. It hastens resolution and promotes rapid absorption of inflammatory products.

Under the influence of this agent there is an entire change in the heart's action. The heart beats more slowly and quietly, the pulse becomes fuller and more natural, there is a general soothing effect upon the nervous centers, and the natural secretions from all the emunctories are re-established. It promotes free diaphoresis, and thus, a more rapid dissipation of heat. It is thus especially indicated when the skin is dry and hot. The mouth is no longer dry, the eyes assume a more natural appearance, and there is a large increase of the urinary secretion and the arterial tension is materially lessened. *Aconite* has a direct effect on the heat centers, inducing marked reduction in temperature. It is due to this influence that it is so reliable whenever there is an excess of body heat.

In acute **congestion** or in inflammation of the **brain** and spinal cord or their meninges, this agent exercises a double influence in the initial stages, but as soon as prostration or lack of power is evidenced it must be discontinued. In **cerebro-spinal meningitis** of infancy, with *gelsemium*

and other antispasmodic sedatives, its influence is of prime importance. Acute discrimination must be exercised as to the limits in which it will be useful.

With the statements made, concerning the action of this remedy, it will be seen that in the diseases of children, and especially during the **summer**, *aconite* is more frequently called for perhaps, than any other one **fever** remedy. The fevers resulting from heat, from gastric disturbances and intestinal faults, as well also as those of nerve irritation from any cause occurring during warm weather, nearly all show the *aconite* indications, and consequently respond very quickly to this remedy.

*Aconite* has a direct influence on respiration and upon the respiratory organs. In **pneumonitis** its influence upon the capillary circulation is so pronounced that it is impossible to overlook its benefits. Usually for the first five days of the fever its indications are conspicuous and no remedy will take its place. If given with *veratrum* at this time the violence of the circulation and temperature is restrained more promptly. In **bronchitis** it allays irritation, restores secretion, and by its paralyzing effect on the end nerve filaments quickly soothes the irritable or inflamed condition of the mucous membrane.

In **pleuritis** it is the first remedy to be thought of in the initial stage. Its influence is enhanced here by the use of *asclepias tuberosa*, and by alternation with *bryonia*. The chilliness, cutting pain on respiration, sharp cough and dry skin and mucous membranes, all point directly to it; but as soon as effusion to any great extent occurs, the agent may be dropped and the other agents continued.

It is of essential value in the treatment of mucous and serous inflammations. Its influence is evidenced in a marked manner in the treatment of acute **enteritis** or **peritonitis**, local or diffused, idiopathic, traumatic or septic. In gastritis, appendicitis and hepatitis; in acute **nephritis**, cystitis or urethritis, specific or non-specific, it is the first indicated remedy and may be continued until asthenia appears. In acute catarrh and other similar inflammations it may be persisted in as long as the inflammation lasts.

Its influence in stomach and intestinal troubles is in part due, although to no great extent, to its local as well as its general influence. In the inflammatory stage of **dysentery** and **cholera infantum** minute doses of *ipecac* and *aconite* exercise a specific effect when the causes of the

disease are removed and intestinal asepsis secured.

In the onset of **diphtheria** it is an essential auxiliary. In acute tonsillitis, pharyngitis or laryngitis its specific influence is conspicuous because of its local as well as its constitutional effects. Minute doses will often abort a case of croup or terminate it abruptly. Its internal administration in acute inflammation of the throat or post-nasal mucous membrane is greatly enhanced by a warm spray which contains *aconite* in an appreciable quantity.

In the treatment of continued or **septic fevers** *aconite* is usually indicated at the onset, but as soon as impairment of the blood, by the influence of high temperature and rapid destructive metabolism, with defective excretion of the waste products, is apparent, the agent must be discarded. The nerve force is deficient by this time and depressing agents are contra-indicated. This is especially true in typhoid conditions. The changes take place early, and the period of *aconite* indications is very short. *Cactus grand*, organic antiseptics and *bryonia* will produce a sedative influence, and we will find their indications conspicuous when the time for *aconite* has passed.

*Aconite* is of value in the treatment of **rheumatism** and rheumatic fever. In addition to its general influence upon inflammatory conditions it is a great promoter of excretion. It is combined to an advantage with *cimicifuga*, sodium salicylate, *bryonia*, or *rhus tox*.

In **exanthematous disease** *aconite* is doubly indicated because of its direct action upon the capillary circulation of the skin. It assists in determining the eruption to the surface and promoting exfoliation. It curbs the temperature and prevents complications and conduces, to a normal condition of the mucous surfaces, which is important where those surfaces are in danger of being involved also.

In acute **mastitis**, if treatment be inaugurated at once, an actual specific effect is accomplished by administering a full dose of *aconite* with ten drops of the tincture of *phytolacca*, one hour, and alternating it the next hour with *aconite* and ten grains of acetate of potassium. But few doses will be given until abatement of the active symptoms will be observed. The same course may be advised in prostatitis or acute orchitis with similar results. In metritis it has a prompt influence and gives excellent satisfaction.

*Aconite* is a remedy of prime importance in the treatment of **amenorrhea** when the suppression results from acute cold. It is conjoined with other measures indicated, and is prompt and satisfactory. *Cimicifuga* enhances its influence here, as well as *Polygonum punctatum*. When the secretion of the skin and mucous membrane is restored by *aconite*, a full dose of quinine will sometimes accomplish the desired result, when it would accomplish nothing without this agent.

*Aconite* is so assuredly a specific in febrile conditions that its influence in chronic diseases is almost entirely overlooked. It is in certain chronic and non-febrile conditions a very reliable remedy because of its certain action upon the nervous system. John King advised its use in treatment of non-febrile **spinal irritation** in young women, and the writer has followed his suggestions in this condition for years with superior results in many cases.

Its direct influence upon the cerebro-spinal system is recognized by homeopaths, Deschere says: "*Aconite* is useful in mental diseases and hysteria when there is particular aversion to excitement; the patients show an intolerance of music; they can bear no sounds."

*Aconite* is an important remedy in the treatment of **affections of the heart**. The symptoms indicating it in these cases are numerous and important, and necessarily so, since *aconite* restrains the blood flow and also exerts a special action on the heart and its nerves. There are congestions of both heart and lungs, palpitation with anxiety, cardiac oppression and even syncope. The palpitation is worse when walking, lancinating stitches occur and prevent the patient from assuming an erect posture or taking a deep inspiration. Attacks of intense pain at times extend down the left arm from the heart and are associated with numbness and tingling in the fingers.

The agent is advised by many in **angina pectoris** when there are strong contractions or pure hypertrophy, but not in enfeebled heart or where there is much valvular insufficiency.

In **reflex vomiting** without prostration or exhaustion *aconite* is useful. This is especially true in some cases of the vomiting of pregnancy.

In **neuralgia** it is of use externally as well as internally. The aconitine, in granules, is the best form for its internal administration in neuralgia. Externally the tincture may be applied.

Webster has used *aconite* externally for **pruritus**, with excellent results. Occasionally the condition returns but in most cases the cure has remained permanent. Harrington confirms Webster's observations as does Robinson, who believes that the influence is induced by a direct anesthetic effect at first, with an influence upon the nerve endings, which prevents a return of the condition. The remedy is diluted and applied according to the discretion and knowledge of the physician.

*Aconite* is of common use in local pain, to relieve congestion, irritation and distress. Perhaps the most immediate influence obtainable in **acute pain** is to pour ten drops each of chloroform and *aconite* into the palm of the hand and hold it over the seat of the pain for two or three minutes. The effect is instantaneous and marvelous. It may be used in this manner in acute stomach or bowel pains until the cause of the pain is removed by other measures, or in acute pleurisy, and especially in angina pectoris. The pain ends with the application, and measures can be adopted to prevent its recurrence. Any local pain or neuralgia will yield, for a time at least, and in some cases it will not return. Sciatica treated two or three times per week with this simple formula will sometimes cease to return.

We have observed that *aconite* intensifies, modifies and otherwise improves the action of several other agents with which it may be combined or alternated. The characteristic effects of *Cimicifuga racemosa* will occur in much less time with this remedy than when given alone. The influence of *belladonna* upon all local congestions and in equalizing general circulation is intensified in a characteristic manner when the remedy is given with, or alternated with *aconite*. Given in proper doses with *veratrum* the influence of both remedies is active. Their influence on serous inflammation is most marked. In many cases either alone will not produce the same results.

Given with *gelsemium* in nervous excitement, cerebral fullness, nervous twitchings and fevers which result from irritation of the nerves and nerve centers, the effects of both are heightened.

Given with *asclepias tuberosa*, with proper external means, hardly any other agent will be needed in acute pleuritis.

Veterinarians find *aconite* immensely beneficial in the treatment of the inflammatory diseases of animals; but objections arise in the treatment of disease in horses, from the fact that horses are much more susceptible to

its action than man. A correspondingly smaller dose must be given, and repeated quite often.

**Toxicity**—Poisoning by *aconite* is not common. An overdose produces in the mouth and throat a tingling sensation, followed by symptoms of strangulation from paralysis of the nerve endings. The tingling becomes quickly general. This is followed by a sensation of numbness. The skin, relaxing, becomes covered with cold sweat, and finally becomes cold. The patient becomes too weak to stand, the respiration is greatly depressed and insufficient, the heart beats more feebly and the pulse may vary every few minutes in its character, but it is always weak. The temperature falls rapidly. *Aconite* depresses the heat centers, and, by dilating the capillaries of the skin, permits rapid heat radiation, thus at the same time, acting in a two-fold manner upon the temperature. Consequently the temperature of the surface of the body is a fairly correct criterion by which to judge of the internal temperature.

There may be vomiting, failure of the special senses from the general paralyzing effect of the agent, syncope or mild delirium and convulsions. These symptoms are not usual.

**Antidotes**—If a full toxic dose be taken, the above symptoms advance most rapidly, and no time whatever should be lost in combating the influence of the agent. It has no known physiological antidote. The conditions must be met according to their indications. If there is any reason for believing that the stomach contains any of the agent, large quantities of warm water should be swallowed and immediately evacuated. It may be vomited or siphoned out with a long stomach tube, or pumped out, but extreme nauseating emetics are contra-indicated. A mild infusion of oak bark, drunk freely, serves the double purpose of diluting the *aconite* and antidoting it by the tannin it contains. Tannic acid is believed to be a chemical antidote to a limited extent, and given in suspension in water is efficient.

The most immediately diffusible stimulants must then be given freely. Alcoholic stimulants, ammonia, *capsicum* in a hot infusion, and *digitalis*, *strophanthus* or *atropine* by hypodermic injection, or nitro-glycerine are most serviceable remedies. External heat continually and electricity are demanded. *Lobelia* should prove valuable. A pint of vinegar, diluted, saved one life.

## **ADONIS.**

## ***Adonis vernalis.***

Synonyms—*Adonis Apennina*, Pheasant's eye.

### **PREPARATIONS—**

Adonidin. Dose, from 1/10 to 1/3 grain.

**Fluid Extract of Adonis Vernalis;** miscible in water without material precipitation. Dose, one to two minims.

**Specific Medicine Adonis.** Dose, from one-fourth of a minim to one minim. It is usually prescribed: ten drops in four ounces of water, a teaspoonful every two hours.

**Adonidin**—The constituents of *adonis* were studied by Cervello, who obtained from it only one active substance, which he named "Adonidin." This substance is extremely energetic and seems to be present only in small proportion. It is a non-nitrogenous, colorless, odorless and extremely bitter amorphous powder.

**Physiological Action**—From a careful clinical and physiological study of the effects of *adonis vernalis*, Dr. Budnow concludes that the active principle excites the inhibitory nerves in the heart at the central end; that its further action is to paralyze the peripheral end of the vagus; that it likewise excites the accelerator nerves, sometimes directly (through the blood pressure), sometimes indirectly; that at the moment of the vagal paralysis, the two systems of cardiac innervation interfere; that at the termination of the toxic effect, paralysis of the motor nervous apparatus of the heart occurs; that after death there is either complete loss of excitability or the cardiac muscle is very much weakened.

Durand sums up his observations as follows: In doses of 1/3 grain Adonidin increases arterial tension, regulates the heart beat, diminishes the frequency of the pulse, increases the force of the cardiac contractions. Acting with rapidity, its effect being present only during administration increases diuresis, is well tolerated, but increased doses irritate the stomach.

He commends its use especially in mitral insufficiency and interstitial myocarditis, and in palpitation of the heart.

**Therapy**—*Adonis* is indicated in chronic weak heart where the venous circulation is engorged, and where there is a tendency to varicose







**Therapy**—The older physicians spoke very highly of the action of this remedy within the limits of the above indications. It is valuable in the treatment of **erysipelas** and **scrofulous affections**. It inhibits excessive action of the mucous membranes, giving tone to the mucous, tissues. In **chronic bronchitis** and **asthma**, and in the earlier stage of **consumption**, it was especially advised. All authors agree, however, that its influence is most direct upon the kidneys, correcting imperfect elimination through these organs. It corrects chronic inflammatory conditions, and relieves general irritability. **Excessive mucous discharges** are promptly relieved by agrimony. The atonic and relaxed mucous membranes which secrete excessively, are restored to normal tone and normal functional activity by its use. **Bronchorrhea** and **leucorrhoea**, chronic **ulcerative gastric catarrh**, as well as **colitis**, **ileocolitis proctitis** and **cystitis**, all come within the range of its influence.

In **ulcerative stomatitis**, with foul smelling breath, it may be used alone or in conjunction with astringent alteratives, as *quercus alba*, *alnus* or *geranium*.

*Agrimony* is useful in a form of dysuria which affects women and girls, especially those who are suffering from some form of **dysmenorrhoea**; or those in which there is difficulty in having a normal menstrual function established, this function being accompanied with much pain and general distressing symptoms.

With this there is often an **irritable** condition of the **bladder**. At the same time there may be hysterical symptoms, which result from **uterine or ovarian congestion**, which on its part, may be increased by the urinary irritation. This remedy seems to soothe the nervous system while it quiets the local irritation of the bladder. It was used by the older physicians for this purpose. **Pain** due to chronic **renal** or **cystic inflammation** is relieved by it through its direct influence upon the pathological processes. There must be more general observation of the action of this remedy, as it certainly possesses important properties.

We would be inclined to combine *cimicifuga* or *gelsemium* and *pulsatilla* with *agrimony*, but the old doctors believed the latter remedy would cover the entire group of symptoms. However, a combination of the above agents, properly adjusted, could not fail to be of service.

## **TRITICUM.**

## ***Agropyron repens.***

Synonym—Couch Grass.

### **CONSTITUENTS—**

Triticin, silica, glucose, inosite, mucilage.

### **PREPARATIONS—**

**Specific Triticum.** Dose, from one to sixty minims.

**Physiological Action**—The action of this agent is solely upon the **urinary apparatus**. It exercises a soothing, diuretic influence, greatly increasing the flow of the watery portion of the urine without to the same extent influencing the actual renal secretion. It is bland, mild, unirritating, and is used whenever urine, having a high specific gravity, causes irritation of the kidneys or bladder, more especially of their mucous surfaces.

**Therapy**—It is a useful agent in **pyelitis** and in **catarrhal** and **purulent cystitis**. It is of value also because of its soothing properties in **gonorrhoea**. In the treatment of **lithemia** it will relieve the constant ache in the back, which is due to precipitation of the crystalline secreted products within the tubules of the kidneys, by furnishing abundant water for their solution. It flushes the kidneys, as it were, to an admirable extent, when renal sand has accumulated within the pelvis. Under these circumstances it is one of our most useful remedies. Whether the deposit consists of phosphates, uric acid, or the salts of calcium, it seems to act equally well. It relieves **dysuria** and **tenesmus** and has been beneficial in the treatment of both sub-acute and chronic **prostatitis** with enlargement, **strangury** and **haematuria**.

In gout, chronic **rheumatism** and jaundice with the above complications, it is of much value as an eliminant. One of our authorities speaks of it as a drink in fevers. The infusion may be iced, or given with lemon juice as lemonade.

It not only quiets the thirst, but it accomplishes the important purpose of keeping up free secretion from the kidneys. In the treatment of **fever** it is most important that the excretory functions should not be retarded and it is but seldom that sufficient attention is paid to the function of the kidneys. A free flow of urine is often a most effectual sedative, materially assisting in the reduction of excessive temperature. There are but



in atonic conditions of the nerves, or of the mucous membranes of the body, or great general weakness and prostration. It should be classed as an antiseptic, and in the same class with *baptisia*., *echinacea*, etc.

**Therapy**—It is of much service in **scarlet fever**, especially the malignant form, in **typhoid**, and other types of low fever and in low forms of acute inflammation. With special reference to the action of *ailanthus* as a tonic to the nervous system, it is efficient as a remedy in some cases of **asthma** as well as in **epilepsy**, and in many cases of epileptiform contraction of the muscles, etc. Frequently *ailanthus* will relieve nervous palpitations and severe cases of singultus, that for a long time have withstood other remedies.

With the Chinese, a decoction of *ailanthus* is a most, favored remedy in **tapeworm**, **dysentery** and **diarrhoea**. Because of its special tonic effect on mucous membranes it is an excellent remedy in some cases of leucorrhoea, etc. For the same reason it has been praised as a remedy in many dyspeptic troubles.

## **ALETRIS.** *Aletris farinosa.*

Synonym—Star Grass, False Unicorn Root, Starwort.

**CONSTITUENTS**—Not analyzed.

### **PREPARATIONS**—

**Extractum Aletridis Fluidum**, Fluid Extract of Aletris. Dose, from ten to fifteen minims.

**Specific Medicine Aletris**. Dose, from one to sixty minims.

**Action**—Emetic, narcotic, cathartic, tonic.

**Aletridin**. Dose, from one-half to one grain.

**Specific Symptomatology**—The conspicuous influence of this agent is upon the womb. It is indicated when the patient complains of **extreme weakness** in the **uterine structures**, when there is general feebleness induced from overwork or from oversexual indulgence, or from too **frequent child bearing**. In hyperactivity of the womb and ovaries from lack of tone, deficient menstruation, or sterility from this cause, pale insufficient flow at protracted intervals; anemia and chlorosis, with insufficient menses in young girls, the agent is of great service.

**Therapy**—In the above named condition when iron or other tonics are used for their general influence, this remedy should be given for its specific effect. Its direct influence upon the pelvic organs is sometimes magical under such circumstances. *Aletris*, in large doses, is narcotic, emetic and cathartic. It is a fine tonic and is efficient in flatulent colic and dyspepsia, increasing the tone of the stomach; used also with benefit in general and local debility. It is a host in hysteria.

One of our correspondents says he has frequently given *aletris* in cases of threatening abortion, for three, four, five and six months, the woman going her full term without any untoward effect, rendering the labor easy and safe. In **chlorosis**, **amenorrhea**, **dysmenorrhea**, and all engorged conditions of the uterus, as well as prolapsus of that organ, it is a charming remedy. It can be given alone, or combined or alternated with *caulophyllum*, or with *cimicifuga*, *senecio* or *helonias* as indicated.

“I have often combined *aletris* and *viburnum opulus*, or *viburnum prunifolium*. The *viburnum* will allay pain; both are sedative to the uterine and ovarian nerve centers. I do not know of any better remedy for such troubles than *aletris* and *viburnum*, as anti-abortive. The dose is the same of *viburnum opulus* and *viburnum prunifolium*. It is a valuable remedy for uterine colic and other abdominal pains. Hence in ovarian irritation, or dysmenorrhea, *viburnum* will promptly relieve the pain.

“Flatulent colic is quickly relieved with equal parts of the fluid extracts of *aletris*, and *dioscorea*; ten drops given every hour; if the first dose does not relieve, which it often does, repeat. In leucorrhœa, *aletris*, four times a day, or every four hours, will act promptly, if continued, where there is a debilitated condition, defective nutrition and anemic. If there is pain in the hips and back, constipation and piles, *aesculus hippocastanum* can alternate with the *aletris*.”

It acts promptly upon **prolapsus** or retro or ante-version with relaxed and enfeebled tissues. In emaciated and enfeebled women the influence of this remedy is markedly conspicuous. It improves the function of the ovaries, overcoming **sterility** and correcting habitual **abortion** promptly. In the extreme nausea of pregnancy with vomiting, dizziness, or fainting **spells**, this agent has a direct influence and may be relied upon.

It is not sufficiently well known, but is a constituent of many of the proprietary “mother's cordials” or “female restoratives” on the market. It

acts exceedingly well with *helonias*, *senecio aureus*, *viburnum*, and *caulophyllum* or *cimicifuga*.

While given for its influence-upon the reproductive organs, it tones the stomach, increases the appetite, improves the digestion and the appropriation of food, and thus directly promotes the elaboration of good blood.

## **ALLIUM.** *Allium sativum*

Synonyms—Garlic, Onion.

### **CONSTITUENTS—**

It contains an essential volatile oil, mucilage, sugar and albumen.

**Administration**—The fresh juice is used in medicine, the crushed bulbs are used externally, and a tincture is prepared, of which from five to thirty drops is the dose.

**Physiological Action**—There is positive proof of the antiseptic properties of this agent.

One writer claims that diphtheria does not occur in families that are free partakers of the *onion* in any way. With many it produces flatulency. If used moderately for a while the quantity can be increased without unpleasantness. The odor is no more unpleasant than that of carbolic acid, creolin, *asafetida* and some others.

Covert gave the following facts concerning the common *onion*: “The volatile oil is the essential part of the *onion*, and has not only gastronomic but therapeutic merit. The *onion* is expectorant, stimulant, diuretic, rubefacient and discutient, and as a domestic remedy is well remembered by the oldest inhabitants in the form of *onion* syrup, *onion* draughts, *onion* poultices and the like. As a domestic remedy always at hand and of varied virtues it stands unrivaled.

“The *onion* poultice stands in high favor with me for all **swellings**, such as that of the throat in scarlet fever and diphtheria. It was long declared of much importance in the treatment of **croup** and as an application to the chest in all inflammations of the lungs and bronchi.

“An *onion* may be roasted and the cut surface applied hot to glandular

inflammations and suppurating tumors.”

Bloyer advises the tincture of the **Red Onion** in gravel. The specific indications are extreme **urinary irritation**, with a constant desire to urinate and the passage of calcareous concretions. **Hemorrhage** and pus and mucus are often present from **inflammation of the bladder**. The cystoscope shows the bladder walls greatly thickened, nodulated and imbedded with concretions of various sizes. This persistent and almost incurable condition has been quickly cured by a tincture of the **red onion** and the tincture of **cocklebur** in equal parts, from fifteen to twenty drops given every three hours. The cure of this condition alone by the agent will give it a place in therapeutics.

## **ALNUS.**

## ***Alnus rubra***

Synonym—Tag Alder.

### **CONSTITUENTS—**

Not analyzed.

### **PREPARATIONS—**

**Specific Medicine Alnus.** Dose, from one to sixty minims.

**Therapy—**This agent combines both alterative and tonic astringent properties. It removes waste products, improves the tone of mucous structures and increases the secretory action of the glands of these structures. At the same time it prevents the flow of an excessive quantity of mucus into the stomach, and stimulates the flow of gastric juice and aids the digestion. It cures various forms of ulcerations in the mouth, or in the gastro-intestinal canal. It is advised in **rhus poisoning**. It has accomplished satisfactory cures in pustular and eczematous disease of the skin.

Dr. Ramey of Lincoln, Neb., suggests the use of **alnus** in the treatment of **syphilis**. He gives it in conjunction with **echinacea** and **stillingia** with successful results. It can be given as high as thirty drops at a dose, four times a day and will undoubtedly add something to our list of good remedies for this disease.



## **ALOES.**

## ***Aloes socotrina.***

Synonym—Aloe Perryi.

### **CONSTITUENTS—**

Aloin, resin, volatile oil.

**Aloinum, Aloin.** This is a crystalline substance obtained from Aloes, of a yellowish-brown color; odorless and with the taste of Aloes. It is twice as active as Aloes and produces less griping. Dose, from two to five grains.

**Physiological Action—**It is not rapid or so severe in its action as some other cathartics. Given at bedtime it operates upon rising in the morning. The action is not painful, and it increases the alvine discharges without any increase of the watery constituents. It increases the circulation of the blood in the intestine, improves the muscular tone and restores normal peristaltic action.

**Aloes** acts most freely on the lower bowel. It increases the activity of the muscular coat of the intestines, increasing peristalsis, especially of the colon. It causes soft dark colored feces. It is not to be used when there are hemorrhoids, or when there is irritation or inflammation of the colon, or pelvic organs, nor should it be freely used in pregnancy.

It increases the secretion of the liver, pancreas, and intestinal glands; also the mucous glands of the intestines. It causes some griping when given as a laxative, but *belladonna*, *colocynth*, or *hyoscyamus* will correct this colic.

**Specific Symptomatology—**Homeopathic indications for this remedy are headache across the forehead and over the eyes, nausea, gastrointestinal irritation with coldness of the lower limbs; there is a bitter, sour or metallic taste in the mouth, the tongue yellowish white, somewhat dry, with thirst; bitter or sour eructations; heaviness over the liver; pulsation in the navel region; distention of the abdomen with gas with the above conditions. Gloomy patients suffering from constipation can take *aloes* to advantage.

**Therapy—**If administered to a **nursingmother** it will produce a cathartic effect upon the infant. It is a constituent of the larger proportion of the cathartic pills on the market.

If the liver is acting normally a much less dose will produce a cathartic effect than when there is a torpid or an inactive liver.

The agent should be used, if at all, with much care in inflammatory conditions, especially in those of the intestinal canal, as it is an irritant to the lower bowel. It increases the heart's action and the circulation of blood and raises the temperature.

The agent is **emmenagogue** and **abortive** in its action and **should not be given during pregnancy**. It will produce a full menstrual flux in some cases of suppression.

It may be given in **simple jaundice** with lack of tone; in constipation depending upon weakness of the intestinal tract; where there is plainly deficient peristaltic action, where the tongue is coated, the breath foul, the abdomen full and tumid; where there is inclination to impaction of the colon. It may be given in conjunction with *nux vomica* and *hydrastis*, or other good stomach tonics to excellent advantage when these are correctly indicated.

One one hundred and twentieth grain of aloin once every day or two will be of material benefit to those who eat too much, especially of starchy foods and sugar; those of phlegmatic temperament and beer drinkers.

## **ALSTONIA.**

## ***Alstonia constricta.***

Synonyms—Australian fever bark, Bitter bark, Alstonia bark.

### **CONSTITUENTS—**

Several analyses have been published, which vary somewhat. Alstonine, an amorphous alkaloid, is present in all. Alstonidine and porphyrine are also found.

### **PREPARATIONS—**

The **powdered bark**, dose from two to ten grains.

The **tincture**, dose from ten to sixty minims.

**Specific alstonia** from two to twenty minims.

**Specific Symptomatology**—General malarial cachexia, periodicity, fever with marked intermissions or remissions. Malarial fever, with exacerbations. General atony of the glandular organs, with sallow skin,



intestinal canal, as well as those of the entire urinary apparatus.

**Therapy**—In its soothing influence upon the intestinal structures, it is of service when there is **inflammation** of the **bowels** or irritation from any cause, and it is often administered as an enema in dysentery, and if a few drops of laudanum be added it will often cause prompt relief from the tenesmus and general distress. When **irritation** of the **bladder** exists from decomposed urine, this agent is of much service, especially if taken in conjunction with benzoic acid or benzoate of sodium. An infusion which contains five or six grains of the above salts to the ounce is of most excellent service in these cases. Acute painful **cystitis** with much mucus, ammoniacal urine, great pain in urinating, and tenesmus, should be relieved in twelve hours with this method.

In conditions where simple irritation is induced either from the presence of uric acid or other precipitated crystalline bodies, a strong infusion of *Althaea* will greatly enhance the influence of other indicated remedies.

### **Fly Agaric. (*Amanita muscaria*)**

This agent is closely allied to the above in its physical characteristics. Scudder advised its use, but it has never been generally adopted.

**Physiological Action**—From this species a common alkaloid has been obtained, Muscarine, which has been used as an antagonist to atropine. It produces ptyalism, vomiting, depression of the circulation, general muscular weakness, paralysis, difficult breathing, followed by death in extreme cases. The pupils contract to a pin point, and subsequently dilate. It produces tetanic contraction of the spleen, bladder and intestines, with violent peristaltic movement.

**Therapy**—**Muscarine** is used in the **night sweats of phthisis**, in a manner similar to the agaricin. Also in **diabetes insipidus**. Scudder gave as specific indications for the fly agaric, involuntary twitchings of the face, forehead and eyes, pressing pain in the occiput, with a lack of muscular control. It seems indicated in the **typhoid** conditions where there is tremor and great restlessness, with a desire to get out of bed.

### **AMYGDALUS. *Amygdalus persica.***

Synonym—The Peach Tree.

## PREPARATIONS—

**Tincture Amygdalus Persica.** Dose, from ten to sixty minims.

**Specific Medicine Amygdalus.** Dose, from five to thirty minims.

**Therapy**—The older physicians suggested this remedy as specific to irritation in the stomach, with **persistent nausea** and **vomiting**, especially valuable in childhood where the tongue was elongated and pointed, the edges red and the stomach tender on pressure. It has invariably disappointed the author, but other physicians use it with much confidence. It is said to relieve **nervous vomiting** and the **vomiting of pregnancy**, and the persistent vomiting of **cholera infantum**. It is sometimes best given in strong infusion of the bark of the green twigs. The influence claimed for this by Scudder has not been confirmed by more recent observers.

## ANACARDIUM

## *Anacardium occidentale.*

Synonyms—Cashew Nut.

## CONSTITUENTS—

It contains gallic acid and an acrid resin, anacardic acid, and cardol.

## PREPARATIONS—

A **tincture** is prepared. The commonest form of administration is the **Homeopathic mother tincture**. Dose, from one-fourth of a drop to a drop, four or five times a day.

**Physiological Action**—The juice of the rind is acrid, corrosive and irritating. Externally it produces blisters, which are apt to be troublesome and difficult of cure. It produces redness, inflammation, swelling and deep ulceration.

**Therapy**—This remedy was first brought into use, in the treatment of **Senegal fever**, a peculiar fever of the Tropics, where quinine has proved unavailing. Webster suggests that it may be found of value in the treatment of mental disease, the result of nervous debility, especially that form known as **sexual neurasthenia**, where there is loss of memory, threatened dementia, failure of the will, great anxiety, and solicitation concerning the condition, with general failure of the nervous power.

It has been used in the treatment of some forms of skin disease. There is room for investigation concerning its action.

**PULSATILLA.**                      ***Anemone pulsatilla.***

Synonyms—Pasque-flower; meadow-anemone; wind flower.

**PREPARATIONS—**

**Extractum Pulsatillae Fluidum**, Fluid Extract of Pulsatilla. Dose, from one-half to two minims. Precipitates upon addition to water.

**Extractum Pulsatillae**, Extract of Pulsatilla. Dose, one-sixth of a grain.

**Tinctura Pulsatillae**, Tincture of Pulsatilla. Dose, from five to thirty minims.

**Specific Pulsatillae**, Specific Pulsatilla. Dose, from five to twenty drops in four ounces of water. Teaspoonful every two hours.

**Anemonin.** A crystallizable camphoraceous body; volatile, easily converted in the presence of alkalis into anemonic acid. Dose, from one-twentieth to one-fourth of a grain.

The medicinal properties must be extracted from the fresh herb, as the volatile character of anemonin permits of the rapid dissipation of these properties on drying.

**Physiological Action**—The agent has a direct influence upon the brain and spinal cord. In toxic doses it produces mental hebetude, dilated pupils, coma, and in extreme cases, convulsions. It lessens general sensibility.

It paralyzes to a mild degree both, sensation and motion. It increases, in proper doses, the cerebral functions and imparts tone to the sympathetic system.

In toxic doses it is a heart depressant; it lowers arterial tension, reduces the pulse rate and temperature.

It exercises an influence upon the heart similar to that of *cactus*, increasing its power, improving the strength and rate of the pulse and slowing the rapid and feeble pulse of nervous prostration.

The influence of full doses of *pulsatilla*, taken into the stomach and

intestinal canal, is that of an irritant. In the mouth it acts like *aconite* or *xanthoxylum*, producing tingling, burning and subsequent numbness. It produces a sensation of rawness, and is followed by acid eructations and unpleasant taste. It produces tightness and constriction of the chest, with congestion, chilliness and great weakness. The agent is seldom given in sufficient doses to produce the physiological effects. It operates much more satisfactorily in doses too small to produce such action. It has long been popular with the homeopaths in minute doses.

In studying its medicinal influence on the circulation, *pulsatilla* is said to act in much the same manner as *aconite* during fevers, where there are high nervous manifestations. It equalizes the circulation somewhat like *belladonna* it is thought. Where catarrhal disorders are present, subacute in character with congestion and a free discharge of thick bland, yellow or yellowish green mucous, it seems to act directly, except in chronic catarrhal conditions. This remedy will act satisfactorily only when the precise indications for which it should be prescribed, are present.

**Specific Symptomatology**—Homeopathic physicians declare fearfulness as an indication, anticipation and dread of calamity, fear of trouble or death; in male patients suffering from sexual excesses, with spermatorrhea, threatened impotency, prostatorrhoea, with fear of approaching imbecility. We find it indicated in **amenorrhoea**, with mental perturbation, great apprehension of trouble. **Spermatorrhea**, with fear of dire results. The remedy is especially efficacious when existing disorders of the reproductive organs are a cause of extreme anxiety.

In addition to the well known indication, I might say that it is of value in disorders of the reproductive organs which depend upon defective innervation, and which are usually accompanied with manifestations of hysteria or melancholia, or which depend upon sexual derangements and menstrual disorders which are accompanied with loss of strength, chilliness, more or less headache, and gastric derangements, such as nausea, eructation of sour water and other nervous manifestations.

Its best influence is exercised in women of blond temperament, particularly of lax muscular fiber, and of mild and yielding disposition, and smaller doses with these patients will produce better results than larger doses with other patients. Some writers claim that it may be given during the progress of inflammation of the mucous membranes, prescribed in much the same manner as *aconite* would be prescribed, or as *cactus* is given.

It acts best in the catarrhal stage of inflammation rather than in the initial stage, and in this it differs somewhat from *aconite*.

**Therapy**—Its influence is especially directed to that portion of the sympathetic nervous system influencing the **reproductive organs**. It increases the tone and functional power of these organs, and overcomes irregular, imperfect or deficient action.

It is prescribed in **uterine disorders** which induce melancholia and hysteria.

It has an apparent antispasmodic or nerve-soothing influence, which renders it valuable in **hysteria** and general nervous irritation with convulsive phenomena, in the absence of acute inflammation, blood determination or fever. A few physicians laud it highly in **hysterical convulsions** and in convulsive conditions due to **uterine disorders**.

In **general nervousness** due to chronic uterine disorder, with or without hysteria, with despondency and nervous irritation, *pulsatilla* is an excellent remedy. It may be given in doses of one drop, frequently repeated. In deficient, suppressed and **irregular menstruation**, with the above symptoms, it is of rare value. It will quickly promote a normal and regular flow.

It is an excellent agent in small, frequent doses when the mental conditions above named are present **during pregnancy**, with a general relaxed and atonic condition. Its influence in these cases is enhanced by combination or alternation with *cimicifuga*. It certainly improves the general condition and conduces to a normal and easy labor.

It is needed during the pregnant state. to correct hysterical manifestations and urinary irregularities. It acts better in the catarrhal stage of inflammation rather, than in the initial stage.

In **nervous exhaustion**, with feeble pulse and deficient capillary circulation, cold extremities and a generally relaxed physical condition, it will serve an excellent purpose combined with other nerve tonics, or in conjunction with the directly indicated remedies.

Dr. Strauss adds two drams to two ounces of water, and gives a teaspoonful every hour in his irritable cases, especially in low forms of



headache, light and dull; restlessness, patient rolling and tossing until worn out; a rambling mind with an occipital headache; mild ovaritis; mild neuralgia with irritation of the brain; dragging headache frequently occurring in women.

*Pulsatilla* is a remedy for **nervous headaches**, especially if of the anemic variety, characterized by pallor of the countenance—the headaches of the menstrual epoch, of pregnancy, and also those of gastric origin with this specific character. It relieves the constipation, enuresis and dysuria of hysteria and pregnancy. It is excellent for the **urinary irregularities** of the pregnant condition, with ammoniacal urine, catarrh, pain, tenesmus, burning or sharp shooting pains. Its influence in this is facilitated by *hydrangea*, *gelsemium* or the benzoate or salicylate of lithium.

Where there are menstrual disorders of any kind, if there be loss of strength, chilliness, headache, gastric derangements, sour stomach, and melancholia, *pulsatilla* is directly indicated.

**Leucorrhœal discharges**, attended with pain in the loins, weariness, **depression of spirits**, loss of appetite and general derangement of the nervous system, are also satisfactorily relieved by *pulsatilla* taken internally in five-drop doses of the tincture three times a day, and continued for a few weeks.

*Pulsatilla* has been frequently suggested in the treatment of **phlebitis**. Its indications should be looked for. Dr. Halbert of Nashville gives *pulsatilla* for the **eye complications** of **diabetes**. He finds it a reliable remedy although he does not explain its action.

Our observers in many cases combine *pulsatilla* with heart remedies and *nux* for heart trouble, and nervous weakness, especially if there be despondency, or with the alkaline salts in acid stomach. The combinations work very good results if correctly made.

Homeopaths advise *pulsatilla* in catarrh of the stomach where the patient suffers most when the food is taken, or where the most benefit is derived from taking the food cold. Dr. Huffman prescribed it for the mental symptoms in a patient suffering from **chronic catarrh** of the **stomach**. The tongue was heavily coated. It was dark-brown in the center. The tip and edges were red; there was fullness and pain always after eating. Sometimes there was vomiting of the meals. There was a large quantity of mucus in the vomit. This was followed by a burning sensation

from an excess of acids.

This case was not permanently benefited by the ordinary treatment. The administration of *pulsatilla* and *echinacea* before meals finally completed the cure. *Pulsatilla* was given in large doses, from eight to twenty minims.

Another writer cured the **excessive acidity** of these cases with five-drop doses of *passiflora*, every two hours.

It is given in **bronchial** and **pulmonary** irritation and in bronchial asthma.

It is used in **eruptive fevers**, and in those cases of measles in which the eruption produces excessive irritation of the post-nasal cavity, throat and bronchial tubes.

It has been lauded in **rheumatism**, but any specific influence in this condition is not ascribed to it.

In **gonorrhoeal epididymitis** or in gonorrhoeal orchitis, the agent may be given with excellent results, especially if there be gleet and stricture. Small and frequent doses are better than large infrequent doses. It speedily relieves the pain and nervous excitability. It is advised for internal use for frost bites.

## **ANEMOPSIS.**

### ***Anemopsis californica.***

Synonym—Yerba Del Manza.

This is highly valued by the native Indians of Southern California and Mexico. The California observers have used it extensively.

The remedy possesses tonic astringent and antiseptic properties.

The dose of **anemopsis specific medicine** is from five to thirty drops. The root is the part used in medicine.

It is a tonic not only to the gastro-intestinal tract, but also to the respiratory and renal organs. It has an aromatic warming and astringent taste, not at all unpleasant. It seems to possess properties very much like those of *pipermethysticum*, and it can be used in the same conditions, as a tonic; combined with very small doses of specific *nux vomica* it is very

efficient. In tuberculosis, it has repute among the natives, and especially in **tuberculosis** with great weakness, and tendency to **hemorrhage**. If it be added to *specific medicine lycopus*, it will give good results.

For feebleness of the mucous membranes, with a tendency to breaking down of the tissues, given internally and as far as possible applied locally, it gives good results. In **gonorrhoea** and such urinary troubles where *cubebs* are given, *anemopsis* is good. In painful **diarrhoea** and **dysentery** with passages of blood and mucus, also in bad cases of typhoid, Dr. Oliver spoke very highly of it. The doctor in these cases used it in decoction, and so prepared it can be given freely.

In bad bruises, in **tibial ulcers**, and also in **syphilitic sores**, it makes a good local application.

Dr. Munk of Los Angeles used it for some time in nasal catarrh. He adds from ten to thirty drops of the, fluid medicine to a two-ounce prescription, consisting of glycerin, one dram, aqua dest. to make two ounces. This is used as a spray in the head and the throat every two to four hours. He has had considerable success with it.

The specific indications for its use in catarrh are, “a full, stuffy sensation in the head and throat.”

It is a mucous membrane remedy, and whenever we have cough with expectoration, or wasting discharges from the bowels, or urinary tract, it is indeed a good remedy. When using it locally, as in catarrh, be sure and give it internally. The compound syrup of the hypophosphites makes a splendid vehicle in which to administer it.

## **ANTHEMIS**

## ***Anthemis nobilis.***

Synonym—Chamomile.

### **CONSTITUENTS—**

Volatile oil, Anthemene, Antheminic acid, tannin, resin, wax.

### **PREPARATIONS—**

**Extractum Anthemidis Fluidum**, Fluid Extract of Anthemis. Dose, one-half to one dram.

**Administration**—This agent seems to exercise but little influence in  
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physiological doses. A few drops of the specific *anthemis* or the German tincture in a glass of water in teaspoonful doses every few minutes or every hour will accomplish good results when directly indicated.

**Specific Symptomatology**—Severe pain in infants, from simple causes, extreme susceptibility to pain, general hyperaesthesia, subjective, acute, transient, sharp pains.

The following indications were given in *The Medical Century*, and can be relied upon:

There is perpetual hyperesthesia; there is starting and, jumping. The child is cross, wants to be carried; stool apt to be soft and charged with sulphuretted hydrogen; if there be diarrhea accompanying, the passages will look like the white of an egg mixed with greens. The gums are liable to be tender. Tooker says, “the remedy of all remedies and the one most often called for during the teething period is chamomile. This remedy is to children what *pulsatilla* is to women, a veritable *vade mecum*, “

*Chamomile*, acts mildly on the nervous system to subdue irritability and on the gastro-intestinal tract to relieve irritation there. It is adapted to the restless, peevish, irritable, discontented, and impatient infant who insists on being carried in arms constantly. With these there is usually hepatic tenderness with watery or greenish, slimy discharges, yellowish and white lumps of undigested curds, the fecal excoordinating the external parts. There is often difficulty and pain in urination, and bloating of the abdomen with flatulence. It prevents convulsions by relieving the irritation, but has not sufficient antispasmodic effect to control the convulsions. It is adapted to irritation of the nervous system, and not atony.

The many conditions with the adult woman it is beneficial, especially to those in the **latter months of pregnancy** where there are present false pains, nervous twitching, reflex cough, explosion of irascibility; where there is fretfulness, peevishness, impatience and discontent; where there is **morbid sensitiveness** to pain; where there are sudden fits of temper during **menstruation** with muscular twitchings.

**Therapy**—This agent in hot infusion is emetic, a stimulating diaphoretic, and it promotes the **menstrual flow** when suppressed from cold. It is of little importance, in the writer's opinion, as we have so many other agents with wider and more positive action. In suppression of the secretions from

acute cold it is a useful remedy. If drunk during an alcohol sweat or Turkish bath, its influence is greatly increased. In acute **rheumatism** it will prove of service,

It is a mild stomachic and general tonic in half-ounce doses of the cold infusion, and it seems to mildly stimulate digestion.

In acute **colic** in infants, with nervous excitability and tendency to spasm, a few drops may be dropped into a half glass of water and a teaspoonful given every ten minutes with immediate relief. In flatulent colic and in colic accompanying diarrhea, the discharges of a greenish, feculent character with reflex nervous irritation or increased nervous susceptibility, it is a specific remedy.

In constant worry and fretfulness of very young infants, without apparent cause, it is a soothing remedy of much value. It is excellent during the teething period to allay nervous irritation and soothe pain. In neuralgic pains in children it is useful.

In **hysterical** females its therapeutic influence is similar to that of *pulsatilla*. It soothes general irritation and quiets imaginary pains, especially if occurring at the menstrual epoch.

It is useful in dysmenorrhea and in mild cases of ovarian neuralgia. In amenorrhea with intermittent pains, and sensations of appearing menstrual flow, it is useful. It may be given for the erratic pains and reflex nerve irritations of the last months of pregnancy, the reflex cough and unbearable muscular cramps and twitchings.

## **APOCYNUM.**

## ***Apocynum cannabinum.***

Synonym—Canadian Hemp.

### **CONSTITUENTS—**

Apocynin apocynein, tannin, gallic acid, gum, starch, resin, wax.

### **PREPARATIONS—**

Decoctum Apocyni, Decoction of Apocynum. Dose, from half a dram to one dram.

**Specific Medicine Apocynum.** Dose, from half of a minim to twenty minims.

**Administration**—It may be necessary to vary the form of the remedy in its administration in certain cases before a marked result occurs. The specific *apocynum* seldom fails. It may act promptly in doses of from one-half to one drop frequently repeated, and it may be necessary to give five drops or more at a dose, but close watch must be kept on its action upon the bowels that it be not too severe and prostrating. The agent has a general tonic influence which so sustains the body forces that considerable violence of cathartic action can be obtained in some cases, without marked depression, but usually this violent action should be avoided.

Fluid extracts are usually unreliable and uncertain in their action, some acting promptly, others producing marked irritation and depression, and still others being inert. If the fresh root of the *apocynum* can be obtained, an infusion of one ounce to the pint of water may be made, and from a teaspoonful to a tablespoonful of this infusion given often and increased or diminished as indicated. In some cases very small closes are very efficient. A tincture carefully prepared from the fresh root sometimes is the superior preparation.

While specific medicine *apocynum* and the normal tincture of *apocynum* are both excellent forms of this remedy for administration, there are some cases in which these produce considerable irritation of the stomach and intestinal canal. A distilled extract of *apocynum* is now supplied, which is nearly tasteless; can be administered in larger closes, and in many cases produces more satisfactory results than any other form, as it has less irritating properties. This fact is indeed important.

**Physiological Action**—Whether this agent acts most directly upon the heart or upon the kidneys has been an unsettled question except to those who have used it in cases where the heart was greatly enfeebled and relaxed, and when dropsy resulted from that condition.

It is certainly an excellent heart tonic in such cases, improving the strength of the heart muscle, the character and force of the pulse, and increasing to a most marked extent the arterial tonus. We have taken the initiative in introducing it among the specific heart remedies. It strengthens the nerve force, improves the respiration, and facilitates oxidation of the blood. Its influence is similar to *convallaria* or *digitalis*, and it acts in harmony with *cactus*, the influence of both being increased.

This agent is a violent cardiac poison. Given in large doses, it stops the

heart in complete systole, and in small doses slows the beats and strengthens their force. It contains an active principle which acts as does *digitalis*, with, however, these differences, that it is not cumulative, and when administered in a medicinal dose it does not give rise to any inconvenience excepting some headache. Froment has reported ten instances of diverse cardiac disease in which the pulse was slowed, the rhythm was made regular, the arterial tension was raised, and edema disappeared; in certain cases it acted when *strophanthus* and tincture of *convallaria* had failed. It seems to be useful in certain febrile conditions where the frequency of the pulse gives rise to anxiety, notably so in pulmonary tuberculosis, although a large dose may increase the diarrhea if present.

Horatio C. Wood conducted independent experiments to determine the physiological action of this remedy, under the auspices of the National Academy of Science. His observations have confirmed my early and later statements concerning the direct influence of *apocynum* upon the heart. He states that, notwithstanding all early observations were made with reference to the action of this drug upon the kidneys, his experiments prove that its influence is directly upon the circulation. Injected into the veins of a dog, there was a marked slowing of the pulse with a rise in the blood pressure, usually, but in some cases the slowing of the pulse was so great and so immediate as to prevent any rise of blood pressure. These effects, he asserts, are in every way similar to the action of *digitalis*, and he is impressed that there is a marked similarity between the action of this drug and *digitalis*.

His experiments made to determine whether the stimulation was directly upon the heart, or upon the circulation, through the vaso-motor mechanism, convinced him that the drug stimulated the cardiac muscle directly, bringing about a cessation of cardiac action, if persisted in, to over-stimulation, the contractions of the heart ceasing in permanent systolic spasms. He believes the remedy acts also upon the arterial walls. His studies further show that despite the enormous stimulation of the heart, the circulation through the kidneys is diminished rather than increased. This he attributes to a narrowing of the lumen of the blood vessels of the kidney.

He believes that the increased flow of urine under *apocynum* is due to the regulation of the circulation at large, a condition similar to that induced by *digitalis*. The pulse is slowed by the action of the remedy through stimulation of the cardiac inhibitory centers of the medulla.

His final conclusions are that *apocynum* is a powerful stimulant to the circulation, and one of which great practical use can be made. However, because of its irritating action upon the stomach, he thinks its use will be limited, but we do away with this objection entirely, first by the administration of the specific medicine in small doses and, second, by the use of the distilled extract, as stated, which is devoid of irritating properties.

Felix-Kramer of Germany has made the following statements:

“The active principle of *apocynum*, according to Liebreich and Langaard, is a glucoside called apocynin, the action of which is, like that of *digitalis*, a cardiac poison. Like *strophanthus*, *nereum oleander*, and *vinca minor*, the plant belongs to the *Apocynaceae* family.

The reports on this remedy so far as I have been able to follow them are unanimous in designating it as a cardiac tonic and diuretic. According to Gwovdinski, of Kiev, *apocynum cannabinum* is known in Virginia as a household remedy and is used by some American physicians by preference as a diuretic. The dose according to this report is 15 drops, t. i. d., and given during the period of compensatory disturbance it caused no unpleasant side-effects.

According to Alesejew the effect of the remedy appears, in proper cases, in two or three days. If no remedial action appeared in five days Alesejew made no further use of the remedy. He prescribed small doses (from three to five drops) three to four times a day. After larger doses he met at times gastric disturbances and pains in the cardiac region. Cumulative effects he did not encounter. The dosage, according to Golubin, is five drops three or four times daily.

In Pawinsky's (of Warsaw) notices about *apocynum cannabinum* the observations he made of the different effects of this remedy from those of *digitalis* on the vagus are interesting. He found that *apocynum cannabinum* acts more readily and energetically on the innervation of the heart than *digitalis*, but the effect of the latter is a more persistent one. He would, therefore, use the remedy at shorter intervals, especially in cases of arrhythmia.

His dosage is somewhat higher: Eight to ten drops of the fluid extract two to three times a day. However, one should always begin with small doses.



Pawinsky rarely met with unfavorable effects on the digestion from this remedy, of which effects some authors speak very extensively. Cumulative effects he found none.

The indications for the remedy, according to the writer mentioned, are valvular lesions and affections of the heart muscle at the time of disturbance of compensation. A. Robin gave thirty drops of this remedy three times daily.

Its influence upon the **kidneys** is exercised, however, when heart symptoms are not conspicuous. It produces a greatly increased flow of limpid urine without irritating the kidneys. There is no hematuria or other evidence of forced action or marked renal congestion. In profound doses it has caused suppression of the urine.

The agent exercises a **hydragogue influence** both upon the **kidneys and bowels**. In large doses it irritates the stomach, producing violent prostrating emesis. As an emetic or cathartic it is too harsh and should not be used. We have more efficient and milder remedies.

Dr. Gregory believes *apocynum* acts directly on the kidneys and when they are acting insufficiently he uses it as a stimulant, believing that it increases the solid matter thrown off. Dr. Moercke, of Burlington, believes that the remedy will not act when dropsy is induced by malignant diseases, but may perform miracles where the patient is dying from incurable heart lesions with general dropsy. He finds it of great value in articular rheumatism when the tissues are filled with serum, and the heart weak but sound.

The following conclusions were drawn by a writer in the Medical Century:

The drug may be given in large doses for a long time—several years in a few cases—without injury to the patient.

Improvement soon manifests itself in the majority of cases, but if improvement does not appear soon after taking the drug its further administration will be of no avail.

The best way to give the drug is by starting in with small doses of the tincture—three drops—and gradually increasing the dose so that the patient is taking ten drops three times a day within three days.

Curative results have not been seen from its use, but the patient is made comfortable and the amount of dropsy greatly diminished.

The only evil consequence from the use of the drug is a slight amount of gastric irritation which is sometimes the result of its taking. This effect gradually wears off as the patient becomes accustomed to its use.

Many failures have been reported, but the writer is inclined to believe that they are mostly due to the use of poor preparation. Beneficial results have not been obtained from the use of the various homeopathic tinctures; many of them seem to be inert. The best results have been obtained from the use of the eclectic specific medicine.

**Specific Symptomatology—Dropsy** is the condition for which this agent should be used, with puffiness of the face beginning in the cellular tissues around or under the eyes, puffiness of the hands and feet, followed by general dropsical effusion. Dropsy caused by defective kidney action yields first, provided too much structural change of the kidneys has not occurred.

We would add, as specific symptoms, **local edema**; edema of the feet and lower legs, pitting upon pressure; edema occurring suddenly from unexplained causes, especially when there is general atonicity, with more or less **feebleness** of the **heart's action**.

In **acute inflammation** of the **kidneys**, where dropsy appears before the kidney lesion has been diagnosed, as often occurs in post-scarlatinal nephritis, it is prompt in its action, but the kidney inflammation must be combated with other remedies. In dropsy depending upon feeble heart, with impaired blood pressure and deficient capillary action, the influence of *apocynum* is fully as marked as in the above condition.

**Therapy**—The statements made in my first editions concerning the therapeutic action of this remedy upon the heart have been more than confirmed by subsequent reports other than those of Wood. It acts in harmony with *cactus*, which is the superior remedy, however, in its tonic effects upon the nervous control of the heart and in improving its muscular power.

*Apocynum* improves the functional operation of the heart. Dr. Best reports two cases, where the **heart** was laboring **tumultuously**, with great

irregularity. The radial pulse was almost imperceptible, except upon the every third or fourth beat. All other heart remedies had been tried and failed. This remedy accomplished all that could be desired. There was a very great increase in the flow of urine, the pulse became stronger, the **heart turbulence** and the **dyspnea** disappeared, and the patient recovered. Another patient, seventy-five years of age, with very **irritable heart** and **constant cough**, was relieved by the action of this remedy, in small, frequent doses.

*Apocynum* strengthens the heart's action, producing an increased tonicity and a regularity of movement, and stimulates the excretion of the watery portion of the urine, changing this fluid from a scanty, thick, turbid liquid to one normal, clear and free, rapidly reducing edema.

In the latter stages of heart diseases where **hydropericardium** is present, with other local or general effusions, it is prompt and efficient in its action, as it most materially strengthens the heart and improves the character of the circulation, while it removes the effusion and consequent oppression.

In the later stages of **pneumonia** where cyanosis and difficult breathing, with increased weakness of the heart, are threatening complications, Dr. Wilkenloh depends upon *apocynum*. It increases the power of the heart, improves capillary circulation, assists in overcoming hepatization, and acts upon the kidneys at the same time. She gives from five to ten drops until it loosens the action of the bowels. Then she reduces it to half a drop every half hour or hour. She has confidence in it in **cardiac dropsy**. She gives it for dropsy from **arteriosclerosis**, giving it in small doses with hypodermics of strychnine. She thinks we have much yet to learn of its influence.

It has been used in all local dropsies. It has cured several cases of **hydrocephalus**, and should be tried in these cases.

Edema, accompanying a mild form of **asthmatic breathing**, with irregular heart's action, has been cured, with all the symptoms, with this remedy. The recent reports of the action of *apocynum* include the influence of the remedy upon the heart. Dr. Winter believes that *apocynum* should be used in **cerebrospinal meningitis**, especially after the stage of effusion. He believes it to be the rational remedy. It may be combined with the other indicated remedies and *echinacea*. Dr. Shafer and other observer's have used it to settle the stomach and strengthen the heart during an attack of

**delirium tremens**, or following a **debauch**. Its influence in the cases used was very prompt and satisfactory. Dr. Keys confirms this observation.

In the **nephritis** of **pregnancy** with albuminuria, *apocynum* lessens arterial tension while it overcomes the dropsy and assists in the reduction of blood pressure which in itself abates the quantity of albumin. If the pulse is strong and rapid, this influence is enhanced by the careful use of *veratrum*.

In females where there are greatly relaxed or flabby tissues, **anemia**, and a tendency to **metrorrhagia** or **menorrhagia**, with some little effusion in the ankles, with feeble kidney action, *apocynum* influences all the conditions. If iron be added for the anemia the influence will be prompt and satisfactory. It has considerable reputation in the control of passive **hemorrhage** among certain physicians.

*Apocynum* has cured many stubborn, intractable and very severe cases of **sciatica**. We do not undertake to explain its action in this disease. Half a dram of the specific *apocynum* added to four ounces of water, a teaspoonful every half hour, resulted in relief after a few doses. In the treatment of this disorder Webb and others use five drops over the sheath of the nerve, sometimes giving it from four to six times in a day, often with rapid results. Any toxic effect must be watched for.

Harvey Brown adds three drams of *apocynum* to four ounces of water and gives a teaspoonful every four hours for sciatica.

Trowbridge has used *apocynum* in doses of two drops four times a day where there is irregular and too **frequent menstruation**. In one case in his special work as an oculist where there was **exophthalmic** goiter with nervous irritability and irritable heart, he gave *apocynum* and this corrected all the conditions as well as the irregular menstruation, which he thinks is present in every female patient with this disorder. This suggestion should have attention.

From severe injury to the thigh, a patient of Dr. Neiderkorn developed a condition closely resembling dropsy of the extremities, but described by him with symptoms similar to acute **traumatic phlebitis**. The appearances so closely resembled the indications for *apocynum* that he gave this remedy in drop doses every two hours. There was a gradual reduction in the swelling, and a satisfactory abatement of the inflammatory symptoms with early recovery.

## **The Removal of Dropsical Accumulations.**

In the treatment of dropsy I am convinced that the physiological processes involved have been misunderstood and therefore often wrongly treated. Failures have been attributed to the remedy, when they have been due to its improper administration. That this is too often the case in the use of remedies for other conditions, I am assured.

To illustrate: Cathartics are administered for their hydrogogue action in dropsy, either to directly reduce the quantity of the fluid within the tissues or to reduce the quantity of serum directly from the blood and thus induce a reabsorption, perhaps, of the serum which has been diffused outside the capillaries throughout the tissues.

It is well known that *apocynum*, *elaterium*, and *hair cap moss*, when given in proper dosage, will so influence the process of absorption that the diffused serum will be taken back through the medium of the capillaries, into the circulation and the dropsy will disappear without any active hydrogogue or diuretic action.

I first made this observation in 1882, of the action of *hair cap moss*. Both my own observations and those of other more recent writers will confirm this influence as being possible from the use of *apocynum*, *elaterium*, magnesium sulphate in small and frequently repeated doses, and one or two other remedies to a limited extent. Whether the remedy acts through its direct influence upon the heart, and the circulation of the blood, or upon the secretory or excretory glands of the intestinal canal, as *elaterium* is supposed to act, or upon both these processes, as *apocynum* acts, or primarily upon the kidneys, there is no doubt in my mind that an influence is exercised upon the blood pressure-upon arterial tension and perhaps also upon the specific gravity of the blood which influences absorption and the osmotic processes, promoting a reabsorption of the diffused serum into the capillaries without any apparent loss of fluid by increased intestinal, renal, or other eliminative action.

If it were possible to know how this reabsorption could be always induced, it would be of great advantage, as it at once restores the quantity of fluid to the circulation, and prevents the prostration and debilitation of the patient, present, often after the removal of so great a quantity of fluid, which sometimes results in the death of the patient, before the influence of restoratives can be administered. I regret that I

cannot give the dosage, exact in each case, but it is small always, usually much less than the commonly prescribed dose, and the dose should be frequently repeated. With *apocynum* this may be observed with twenty drops of the specific medicine in four ounces of water, a teaspoonful given every hour. With *elaterium* from one-thirtieth to one-fortieth of a grain should be given every hour. The fact that there is no prostration, that the patient's strength and vital forces are retained by this process, is a strong argument in favor of a knowledge of it, and of its adoption. We must look for this influence with other remedies.

**ARALIA.** *Aralia hispida.*

Synonym-Dwarf Elder.

**CONSTITUENTS**—Has not been analyzed.

**PREPARATIONS**—

**Specific Aralia.** Dose, from five to twenty minims.

**Specific Symptomatology**—It is prescribed in dropsies of serous cavities, and diffuse anasarca from hepatic or renal inefficiency.

**Therapy**—A valuable, but infrequently used, remedy in **dropsy**. In **anasarca**, if given in active doses, it produces catharsis as well as diuresis, greatly augmenting the flow of urine and causing an excretion of water to a most serviceable extent. An infusion of *aralia*, given with other agents suggested for dropsy, will exercise a most immediate influence in the removal of the fluid. In **suppression of urine** it is an unirritating stimulant of much value. In **gravel** it is of some benefit, and may be given freely in combination with remedies directly indicated for other existing conditions.

**ARALIA.** *Aralia racemosa.*

Synonym—American Spikenard.

**CONSTITUENTS**—

Volatile oil, resin, sugar, pectin, starch.

**PREPARATIONS**—

**Specific Medicine Spikenard.** Dose, from five to forty minims.

**Specific Symptomatology—Suppression of the menses** from cold. **Suppression** of the **lochia** with pain in the uterine region. **Chlorosis, dysmenorrhea. Acrid leucorrhoea** with an offensive odor. Bearing down pain from prolapsus uteri. Indolent, irritable, fetid ulcers.

**Therapy**—The agent is also prescribed with advantage in **asthmatic breathing**, humid asthma, hay-fever, bronchitis, and laryngitis in the early stage, coughs and colds, earache and deafness.

**Chronic pulmonary complaints**, phthisis, scrofulous enlargement of glands, chronic catarrh, pain in the stomach in gouty subjects, rheumatism, syphilis. Cachectic conditions are benefited by this remedy, also irritation of the bladder and kidneys, with scanty urine.

*Aralia racemosa* is stimulant and diaphoretic with a special affinity for the respiratory organs. It may be given to produce perspiration in the early stages of coughs and colds and to asthmatic patients whose complaint is aggravated by catarrh from taking cold.

In chronic complaints of the **uric acid** or gouty diathesis, and in syphilis, it increases waste, removes morbid products from the system, and gives tone to all the organs.

As a local application in chronic ulcers and chronic skin diseases it is both stimulant and antiseptic.

In foul smelling and acrid leucorrhoea, used as an injection, it acts as a disinfectant and may be employed to advantage.

A preparation made from the fresh root should always be employed, to get the best results.

## **LAPPA.**

## ***Arctium lappa.***

Synonym—Burdock.

### **CONSTITUENTS—**

Inulin, mucilage, sugar, resin, tannin, glucoside, fixed oil, wax.

### **PREPARATIONS—**

**Extractum Lappae Fluidum.** Fluid Extract of Lappa. Dose, from a  
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half to one dram.

**Specific Lappa.** Dose, from five to thirty drops.

**Therapy**—This agent closely resembles *yellow dock* in its action as an alterative; it has a direct influence upon the blood, and thence, upon diseases of the skin and mucous membranes. Its influence upon the mucous membranes of the stomach encourages normal glandular secretion and promotes digestion. In **aphthous ulcerations** of these membranes and in catarrhal ulcerations, it is excellent.

It influences the mucous membranes of the air passages when irritated from any blood disorder, alleviating **irritable coughs**.

It cures **psoriasis** and **chronic cutaneous eruptions**.

It has a marked influence upon **chronic glandular enlargements**, and is beneficial in **syphilitic, scrofulous** and **gouty** conditions.

It relieves **irritation** of the **urinary apparatus**, promoting a free flow of the urine containing urea, uric acid, and a full quantity of excrete solids.

## **UVA URSI.**

## ***Arctostaphylos uva ursi.***

Synonym—Bearberry.

### **CONSTITUENTS—**

Gallic acid, tannin, resin, sugar, arbutin, ericalin.

### **PREPARATIONS—**

**Extractum uvae ursi fluidum**, fluid extract of uva ursi. Dose, from ten to sixty minims.

**Physiological Action**—*Uva ursi* has long been in general use as a diuretic and sedative to the general urinary apparatus. It exercises both an astringent and tonic influence also, and it is prescribed when there are calculi present.

**Specific Symptomatology**—Its direct influence is upon relaxed conditions of the bladder walls, to which it imparts tone and induces normal contraction. It restrains excessive mucous discharges.

**Therapy**—It is curative in **ulceration** of the **bladder** wall, in **cystitis**, in



**pyelitis** and in **pyelonephritis**. It is of much benefit also in the general treatment of **gonorrhoea**. It has been prescribed with much confidence in **diabetes**, in which condition its influence is more general than specific. It exercises a soothing influence upon the urinary apparatus, and for that reason, is a common constituent of very many prescriptions for diseased conditions of these organs.

## **SERPENTARIA.**                      *Aristolochia serpentaria.*

Synonym—Virginia Snakeroot.

### **CONSTITUENTS—**

      Volatile oil, aristolochine (bitter principle), resin, gum, starch, albumen.

### **PREPARATIONS—**

**Extractum Serpentariae Fluidum**, Fluid Extract of Serpentaria. Dose, from ten to thirty minims.

**Specific Medicine Serpentaria**. Dose, from one to sixty minims.

**Therapy**—The action of *snakeroot* in restoring secretion after a severe cold, in sudden, acute inflammation, and in the early stages of acute fevers, is most strongly marked. It is valuable, also, in the advanced stages of fevers where there is persistent suppression of secretion, and where the prostration contra-indicates active diaphoretics, etc. It exercises a tonic effect on the nervous system, while it promotes secretion. It is of much value during the progress of typhoid fever.

In **scarlet fever** and **measles** and in **small-pox** it is a useful remedy. It hastens a tardy eruption, and restores the eruption promptly if it has receded. It must be given in full doses up to a dram of the tincture. It acts as a mild restorative tonic at the same time.

It was popular among the older physicians as an active eliminative agent. It was used in **chronic ague** as an antiperiodic and tonic. It was claimed to supersede quinine in some cases; **cynanche maligna**, has been cured by it; **scrofula** and evidences of blood dyscrasia are benefited by it. It is of use in **chronic rheumatism**, and combined with more active agents, in acute cases. It stimulates digestion in enfeebled cases, and encourages a better action from all the glandular organs.

## **ARNICA.**

## ***Arnica montana.***

Synonyms—Leopard's Bane.

### **CONSTITUENTS—**

Volatile oil, acrid resin, and a nauseous bitter substance, resembling cytisin, with gallic acid. A small quantity of an alkaloid called arnicin.

### **PREPARATIONS—**

The **tincture of arnica** is a common preparation. It is in common use for external application. It may be given internally in doses of from one to ten minims.

**Specific arnica**, dose from one-half to five minims.

**Physiological Action**—The whole plant has a disagreeable, strong and irritating odor when fresh. The taste is bitter, acrid and permanent. In sufficient dose it causes vomiting and catharsis. It is also diuretic, diaphoretic and emmenagogue. In poisonous doses, it causes a burning sensation in the stomach, intense headache, and violent nervous disturbance, with marked abdominal pain. The pulse is reduced and often fails. There may be convulsions of a bilateral character, and ultimate death.

**Specific Symptomatology**—The agent is specific to bruised, sore, lacerated, contused, muscular structure. It may be applied diluted externally and should be used internally for the same purpose.

These symptoms may be present from disease, deep muscular soreness—tenderness on pressure in deep muscular structures. In advanced disease, where these symptoms are present with marked general enfeeblement, impairment of innervation, with weak circulation, with a tendency towards permanent prostration, the remedy is specifically indicated.

When there is muscular pain and soreness, which is increased by muscular movement, or soreness in the back, as if from strain, the remedy is useful.

Where there is inflammation of any organ, with general diffused muscular soreness, the agent in small doses is indicated. Where there is

inflammation of any organ from traumatic causes—severe injury to the parts, this remedy must be given.

In the **muscular soreness, pain**, and general physical discomfort that follows **confinement**, especially after **difficult labor**, this agent used both externally and internally will produce immediate benefits. Internally from fifteen to thirty drops in four ounces of water, a teaspoonful every hour will quickly relieve the muscular soreness or extreme lameness from the severe protracted muscular strain. Externally one part to five of warm water may be applied on compresses over the lame parts, and as soon as **soreness of the breasts** occur it may be applied over the breasts for a time.

**Therapy**—In small doses, *arnica* causes increased perspiration, increased secretion of urine, and an accelerated pulse. Its tonic influence upon the nervous system, and directly upon the heart and circulatory organs, make it a useful remedy indeed. In **adynamic fevers**, we have so few remedies possessing sedative properties, which do not depress, that each should be studied in this line, and *arnica* is especially available. It must be given in small doses frequently repeated, in the line of its indications. The indications for *bryonia*, *rhus tox*, or *belladonna*, or perhaps *cactus*, may be present at the same time.

*Arnica* is selected for internal use when there has been a **severe injury**, with fever, or in **surgical fever**, where there has been shock and general prostration. In all cases after severe cutting operations, where there has been destruction of muscular tissue, soreness follows and pain, which is ameliorated to an excellent advantage by the internal use of small doses of *arnica*.

In **low fevers**, where the nervous system is greatly at fault, it not only controls the temperature, but increases the nerve-power, overcoming depression and debility, especially in severe, protracted fevers where the exhaustion results from loss of nerve force and where there is marked depression; if there be excessive **night sweat, colloquative diarrhea, incontinence** of urine or feces, **feeble respiratory** power where difficulty of breathing keeps the patient awake. It may be given in conjunction with other specifically indicated remedies to excellent advantage, where there is **low muttering delirium**, where the tongue is dry and where the mouth and throat seem to be clogged with foul, stringy mucus.

When there are typhoid conditions present, with inflammation of the

respiratory organs, the influence of this agent is much like phosphorous, stimulating the respiration and encouraging the oxygen carrying power of the blood. Many of the milder forms of acute, or **chronic paralysis**, are benefited by this remedy.

It is useful in those forms where mania or delirium tremens are present.

In any case where it is indicated externally, it may be given internally at the same time. Its influence is greatly enhanced.

Soreness in the small of the back, lame back, general weakness of the muscles of the back, with soreness prevailing, sickening backache in the region of the kidneys, are all benefited by *arnica*. It not only relieves the soreness and the bruised conditions, when given internally, but quickly overcomes the ecchymosis.

As an external application, to **cuts, bruises, lacerations**, and sores, *arnica* has long been a popular domestic remedy. It is used in full strength, but the best results are not so attained. It is more serviceable when diluted with from one to six parts of warm water. It is a stimulant to the skin, promoting absorption of nutritive material. It undoubtedly assists in carrying off the broken down tissue, which results from the traumatism, and promotes rapid repair. I have observed its influence to be greatly facilitated by combining it with a nutritional substance. In cases where the muscles beneath the skin were severely **lacerated**, torn and bruised, I have applied one part of *arnica* with five parts of warm fresh sweet milk, keeping the application warm, covered with a protective dressing, and renewed every two or three hours. It is incredible how rapidly the restoration will take place under these circumstances.

In debilitated conditions, where there are old **sores** of long standing or **cold abscesses**, this agent may be applied in conjunction with bovine and will accomplish excellent results.

It is desirable that the agent should be studied more thoroughly, in the line of its internal use, in surgical fevers with shock, and in conjunction with external applications after general bruising and laceration, and in extreme cases of **adynamia**.

When there are circumscribed sore spots in the muscular structures of the body—**hyperesthetic areas**—without apparent cause, this agent is indicated.

## **SANTONICA.**

## ***Artemisia pauciflora.***

Synonym—Levant Wormseed.

### **CONSTITUENTS—**

Santonin, volatile oil, gum, resin.

### **PREPARATIONS—**

**Santonin** is a crystalline neutral principle, derived from Santonica. It occurs in the form of shining, colorless, or slightly yellowish, flattened, prismatic crystals, odorless, and at first tasteless, but subsequently bitterish. Nearly soluble in cold water, soluble in 250 parts of boiling water, and in forty parts of alcohol. Slightly soluble in chloroform and ether.

**Trochesci Santonine**, Troches of Santonine. Dose, from one to six troches. **Santonin**. Dose, from one-fourth to two grains.

**Physiological Action**—Five grains of santonine given to a child caused pain in the stomach, convulsions, insensibility and death. Various phenomena are produced by even smaller doses, as everything appearing yellow or red throughout the field of vision; urine stained deep yellow; a punctiform rash or an eruption like that in measles; amaurosis, flushed face, hot head, twitching of the eyeballs, dilatation of the pupils, foaming at the mouth, clenching of the teeth, jerking of the arms, stertorous breathing. Two grains caused the death of a feeble child.

Generally, recovery takes place after these symptoms, but occasionally death follows.

**Specific Symptomatology**—The following indications, seldom all present at the same time, point to the presence of lumbricoid worms in the alimentary canal. They may also be present in part, induced by various other causes of intestinal irritation. There may be intense itching of the nose in children, the child rubbing or boring the nostrils, with bloated abdomen, restless sleep, crying out in affright, grinding of the teeth at night, groaning in sleep, complete loss of appetite, tongue deep red without coating, deficient saliva, nausea, vomiting, fetid breath depraved, erratic appetite with longings, great thirst, aversion to food, abdomen enlarged and hard, diarrhea with whitish, slimy stools, or bowels constipated followed by looseness, colicky pains in the bowels, vomiting and purging after meals, worms discharged with the stools, cramps in the

bowels at night, itching at the arms, limbs wasted, face pale, skin sallow and unhealthy looking, constant urging to urinate, wetting the bed, urine whitish and cloudy, scalding, dry, hacking, constant cough, tickling in the larynx and trachea, convulsive movements of the hands and arms, sensitiveness to the touch over the whole body, twitching of the muscles, lividity of the face, arrested breath, severe choking sensations, convulsive contraction of the fingers, general convulsions with violent agitation of the limbs, chorea, haziness of sight, loss of consciousness, restlessness, not satisfied with anything, will not sleep, fever occurring daily, usually in the afternoon.

**Therapy**—The generally accepted influence of santonine is in the line of its anthelmintic properties. It is an excellent remedy for the long worm—*ascaris lumbricoides*. It is given in doses of from one-half to one grain, twice or three times daily. In the above symptomatology, however, I have named a long list of symptoms, which are due to **intestinal** or **gastro-intestinal irritation**. In a few cases they may be due to other reflex influences. Many of these symptoms should be treated with santonin, without regard to the presence of worms. In fact, if we properly study this remedy, we must put aside entirely the idea of its anthelmintic properties, and consider it as a nerve sedative, as an antispasmodic and as a positive and reliable agent with which to relieve, **nerve irritations**, especially those of a **reflex** character.

I have made some very conclusive observations in the past fifteen years that convince me that this remedy is the best remedy we have with which to relieve reflex irritation, when the cause of the irritation cannot be at once determined. This is an entirely new field for santonin. I was once treating a child who suffered from all the symptoms of nerve irritation which are present with worms. I gave santonin to remove the worms. Santonin relieved the nervous irritation in a most satisfactory manner, but subsequent observation proved that there were no worms present, but that the irritation was due to faulty digestion and decomposition of food. I was at once impressed that the agent had relieved the irritation by its influence upon the nervous system, independent of any action it might have had upon the worms.

From this observation, I began at once to administer it in all cases where there was **reflex irritation**. I was consulted concerning a child seven months old, who had a **persistent hacking cough** from its birth, which resisted all treatment. I allayed the cough in twenty-four hours with half grain doses of santonin, and the cure was permanent.

I was consulted concerning an irritable heart in an old lady, who was so enfeebled from the violent and irregular action of the organ that she had not been able to do anything whatever for over two years. The heart disorder did not seem to be sufficient to cause the extreme weakness, and I treated it with santonin, as a case of reflex irritation. The results were indeed most surprising. The patient was around the house and assisting with the work within less than a week.

A physician reported a case to me that was suffering from persistent protracted fever, with nervous phenomena, that showed it to be of reflex origin, as all other causes were excluded in the examination. After all known methods had failed, three doses of santonine, one grain each, reduced the temperature almost to normal, and that agent alone caused the permanent abatement of the fever.

I advise with full assurance of satisfactory results, that this remedy be used freely in the treatment of reflex irritations. I do not think it will be found necessary to give it in large doses. From one-half a grain to a grain and a half in an extreme case, will, I think, be sufficient.

I would suggest that it be carefully used in the reflex irritations of pregnancy, especially when there is scanty urine, or when there is deficiency of renal action, with much local irritation. Also in the beginning stages of the **albuminuria of pregnancy**. I am confident that it will do much towards preventing **puerperal convulsions** if given early. I think there are some cases of the **vomiting of pregnancy** that will be quickly allayed by it. I advise that it be given in **hysterical** conditions, and in those difficulties where there is **irritation of the ovaries** and irritation at the menstrual epoch, especially if accompanied with some pain.

Lydston advised the use of this remedy in large doses in the treatment of **epilepsy**. Its antispasmodic properties would suggest that it be used in cases where the spasms are due to reflex irritation; whether it possesses sufficient antispasmodic properties to control spasm, as gelsemium, chloral and other agents of that character do, remains to be proven.

Santonine at times is a positive remedy with which to **increase** the secretion of **urine** in children. It gently stimulates the functional action of the organs, promotes normal secretion and relieves irritation. It is without doubt, our best remedy with which to restore the secretion in post

**scarlatinal** or **post diphtheritic nephritis**. In these cases it may be alternated with positive doses of *belladonna*. In conjunction with a persistent application of heat, it will be found useful in **post puerperal nephritis**, of an acute character, and probably in other cases, where sudden suppression has resulted from profound sepsis.

Where we find colic with loose, slimy stools, it points to intestinal disorders, while convulsive movements are reflex symptoms, consequent upon the intestinal disease. These are benefited by this agent.

Santonine influences these conditions by stimulating the great sympathetic and giving tone to the functions of digestion and nutrition.

It has been employed with advantage in **nervous failure of sight**, nervous vomiting and nervous diarrhea; but it is doubtful whether it has ever improved the sight in amaurosis or cataract, as has been claimed.

Santonine causes yellow vision and yellow urine, Where worms are demonstrated to exist in the bowels, it is a common practice to give santonine with a cathartic of podophyllin, or follow it with castor oil. The agent is **toxic**, as stated, and should not be given in material doses for the special purpose of destroying worms, when the child is constipated or suffering from fever.

## **ASARUM**

## ***Asarum canadense.***

Synonym—Wild Ginger.

Dose, from one-half to one dram of the specific medicine,

Dr. Houts, claims that *asarum* is a reliable **emmenagogue**, and perfectly safe. He gives it alone when he needs to restore the menses, and says he needs nothing with it. It has a direct influence on the uterine system. For young girls with their early menstruation and in cases of painful menstruation, he uses an infusion of the fresh root and expects to get satisfactory results. He takes one ounce of the root and lets it steep slowly for one hour in a pint of water and sweetens it. He gives from one to two drams every half hour or hour. He takes from five to ten drops of the fluid extract to a cupful of hot sweetened water and gives this every half hour or every one or two hours as the patient needs. The results have established his confidence.



The stimulant properties of this agent are of a local character, acting directly upon the mucous lining of the intestinal tract, and overcoming flatulence. It is also a stimulant to the secretory function of the skin, acting as a mild but efficient diaphoretic.

In inflammatory conditions it should be avoided, but after the inflammation has abated, it will mildly stimulate the function of digestion and food appropriation.

The late Dr. R. S. Newton was quite enthusiastic concerning the action of this remedy. Other of our writers believe that it has a more important place than that given by most of our authors. It is advised in strong infusion, freely given, as a stimulating diaphoretic.

**Therapy**—In acute **nasal catarrh**, where the discharge has not appeared, or has been suppressed, with the usual symptoms of headache and general oppression, muscular aching and general discomfort, it is given with good results. **Inflammation** of the **conjunctiva**, from taking cold, where there is profuse and constant lachrymation, will be relieved by it.

In painful or longstanding **spasmodic affections** of the pulmonary region, as in **whooping cough** or **bronchitis**, it will be advantageous and, at the same time, it influences the digestive apparatus, correcting **nausea**, **cholera** and **diarrhea**, which may be present.

Dr. Newton considered its most important influence to be exercised upon the generative apparatus. It is a stimulant to the muscular structure of the womb and to the ovaries, and is **abortive** and an **active parturient**, and may be given to good advantage in recent cases of **amenorrhea** from cold. During **labor**, when the pains are excessive, and when there is extreme erythism, a few drops of the tincture may be put in half a glass of water and a teaspoonful administered every five or ten minutes. It will induce quiet and render the labor more natural. It works in perfect harmony with small doses of *cimicifuga*.

In **metrorrhagia** and in **menorrhagia**, where the flow is steady but not free, where there are cutting pains in the abdomen and groin, extending down the thighs, with aching in the back, the patient nervous and irritable, this remedy will restore the flow to its normal proportions, will relieve the nerve tension and subdue pain. **Violent pain** in the small of the back on the approach of the **menstrual epoch**, which seems to interfere with the breathing, is said to be a diagnostic indication for this

remedy.

Where there is **melancholy** and nervous disturbance in the early part of pregnancy, so that miscarriage seems to be threatened, a teaspoonful of *asarum* every two or three hours will sometimes restore the patient to normal condition.

## **SWAMP MILKWEED. *Asclepias incarnata.***

Synonym—Flesh-colored *Asclepias*.

### **CONSTITUENTS—**

Asclepiadin (the emetic principle), volatile oil, two acrid resins, an alkaloid, fixed oil, albumen, pectin, starch, glucose.

### **PREPARATION—**

**Specific Swamp Milkweed.** Dose, from one to twenty minims.

**Physiological Action—**Emetic, diuretic, anthelmintic, stomachic. *Swamp milkweed* affects the heart and arteries like *digitalis*, and is a speedy and certain diuretic.

**Specific Symptomatology—***Asclepias Incarnata* strengthens the heart and is given in small doses, instead of *digitalis*, as a **diuretic** in **dropsy**. It often promptly relieves the general distress from extreme infiltration of the tissues especially the dyspnea.

**Therapy—**It may be given in coughs and colds, rheumatism from cold, painful stitches in the chest with threatened inflammation of the lungs and pleura, asthma, chronic gastric catarrh, diarrhea, dysentery, dropsy, worms, erysipelatosus diseases.

It improves digestion, and is a good remedy in chronic catarrh of the stomach, and in catarrhal inflammation of the respiratory organs.

It is both emetic and cathartic and may be used with advantage in the early stages of dysentery and diarrhea.

In rheumatic and catarrhal inflammations it should be given to produce slight nausea.

In doses of ten to twenty grains it acts as a vermifuge.

It is also beneficial as a local and internal remedy in erysipelas and erysipelatos diseases.

## **ASCLEPIAS**

## ***Asclepias tuberosa***

Synonym—Pleurisy Root.

### **CONSTITUENTS—**

Glucoside, tannic and gallic acids, resin, fixed oil, volatile oil, fat, gum, starch.

### **PREPARATIONS—**

**Extractum Asclepiadis Fluidum**, Fluid Extract of Asclepias. Dose, from one to five grains.

**Specific Asclepias**. Dose, from one to sixty minims.

**Action**—Diaphoretic, expectorant, cathartic, tonic.

**Physiological Action**—In regard to the influence of *asclepias*, Grover Coe, M. D., writing in 1858, gives the following wide range of action. He says: "No other remedy with which we are acquainted is so universally admissible in the treatment of disease, either alone or in combination. In fact we think of no pathological condition that would be aggravated by its employment. It expels wind, relieves pain, relaxes spasm, induces and promotes perspiration, equalizes the circulation, harmonizes the action of the nervous system, and accomplishes its work without excitement; neither increasing the force or frequency of the pulse, nor raising the temperature of the body. It is of special service in the treatment of affections involving the serous membranes, as pleuritis, peritonitis, etc." In this it resembles *bryonia* closely.

The most active apparent influence of this agent is upon the sudoriparous glands. It is distinctively an eliminative agent of general utility. It is mild in its influence, but if given with confidence it will produce good results.

**Specific Symptomatology**—Its first direct effect is upon the serous membranes within the thorax. It is specific in **pleuritic pains**, both of the acute and subacute variety, in doses of fifteen drops every two or three hours. For these I have long prescribed this agent with positiveness, and have yet to be disappointed. If effusion be present, its rapid removal is

facilitated. The pain and distress abate, the cough disappears, the respiration becomes free and natural, the inspiration being especially pleasant; the heart takes on increased tone, and the entire contents of the thoracic cavity seemed benefited. I have treated with this remedy the “stitch in the side,” which had been present for many months after pleurisy, and have removed it satisfactorily.

This agent will cure **pains** in the **chest** unaccompanied by prominent symptoms, acute, sharp and cutting, recurrent or persistent in their character, if given in doses of half a dram every two or three hours and persisted in for a few days.

**Therapy**—It is beneficial in acute **pleuritis** specifically, also in **bronchitis**, **pneumonitis** and **peritonitis**. It has distinct expectorant properties. In tight and painful coughs with difficult respiration, especially where there is a general suspension of secretion, with dry skin and mucous membranes, and in soreness of the chest from coughing, it is a most excellent remedy. In all these conditions if there is the least elevation of temperature its influence will be greatly enhanced if given in conjunction with *aconite*.

It was in great repute among the older Eclectic physicians in the treatment of **acute pleuritis**, as suggested above. They also used it in acute inflammations of serous membranes, especially if there were acute, quick pains, and a tendency to serous effusion. Its eliminative action upon the skin greatly enhances its influence in these cases.

If the powdered *asclepias* be combined with *ipecac* and *camphor*, a powder is produced with diaphoretic properties of an **Improved Dover's Powder**.

To obtain active diaphoresis, *asclepias* should be given in strong, hot infusion. Its influence in **acuterheumatism** should not be overlooked. It may be combined with such agents as *cimicifuga* and *colchicum*, and will markedly intensify their action, especially if *aconite* be indicated.

## **ASPIDIUM**

## ***Aspidium felix-mas.***

Synonym—Male Fern.

### **CONSTITUENTS—**

Felicitic, felixolic, felosmylic, tomaspidic and pteritannic acids, volatile oil, wax, chlorophyll, gallic acid, albumen, pectin, starch, gum,

sugar, salts.

**PREPARATIONS—**

**Oleoresina Aspidii**, Oleoresin of Aspidium. Dose, from six to eight grains.

**Therapy—**A most active gastro-intestinal irritant, it is given to remove tapeworm, The oleoresin is given in doses of half a dram in capsules. One-half to one dram of the fluid extract may be given, or half an ounce of the leaves are steeped in half a pint of water and this is taken before breakfast. Oils should not be given after this agent, as they facilitate the absorption of its toxic principle which exercises a profound influence upon the nervous system. Saline laxatives or vegetable laxatives may be administered. The usual preparation of the patient is essential and it is necessary to follow the removal of the worm with mild tonics and restoratives. Unlike those often used, this agent does not produce unpleasant results, being in every way a safe remedy if taken in proper doses.

It does not impair the appetite or reduce the strength.

**BELLADONNA.                      *Atropa belladonna.***

Synonym—Deadly nightshade.

**CONSTITUENTS—**

Atropine, Atropamine, Belladonine, Atrosin, Hyoscyamine, Cholin, Asparagin, Chrysotropic and Succinic Acids.

**PREPARATIONS—**

**Atropine Sulphae**, Atropine Sulphate. Dose, 1-120 to 1-60 of a grain.

**Extractum Belladonnae Foliorum Alcoholicum**, Alcoholic Extract of Belladonna Leaves. Dose, one quarter to one-half of a grain.

**Tinctura Belladonnae Foliorum**, Tincture of Belladonna Leaves. Dose, from one to thirty minims.

**Extractum Belladonnae Radicis Fluidum**, Fluid Extract of Belladonna Root. Dose, from one to five minims.

**Specific Medicine Belladonna**. Dose, from one-twentieth to one minim.

**Administration—**The official fluid preparations in most part of *Belladonna*

vary so much in strength that they cannot be relied upon for activity as compared with each other. Using the product of a single reliable manufacturer one ultimately learns the strength of that product and is thus able to adjust it accurately. The normal tincture of The Merrell Company, the Homeopathic mother tincture, and the specific medicine are all reliable preparations, but vary greatly in comparative strength. The specific medicine is very active, and I would advise that each prescriber dilute a given quantity with four parts of alcohol and prescribe this as a strong tincture. Ten drops of this in a four-ounce mixture given in dram doses will be found uniformly active for children. A good U. S. P. tincture will answer in many cases in drop doses in adults.

**Physiologic Influence**—In its full primary influence, *belladonna* is an excitant to the cerebrum, promoting active hyperemia—a profoundly full, active condition of the cerebral capillary circulation. I will show later on that this influence of dilating the capillaries, combined with the stimulating influence of the agent upon the heart, with a characteristic influence in contracting the capillaries of the splanchnic area, makes this the most powerful agent known, in its direct influence upon pathologic hyperemia or a tendency to stagnation in any of the capillaries, whatever organ they may be distributed to. I will also show that this influence can serve as a guide in the prescribing of this remedy in a rational manner, more profoundly than any other influence the remedy exercises.

When given in full doses the fulness of the capillary circulation induced produces a flushing of the face, a bright redness of the skin, which in sufficient dose is general over the entire body. This resembles very closely the erythematous rash of scarlet-fever, and from this fact the Homeopaths have one of their guides in prescribing this agent for that disease. It suppresses the secretions of all the organs, especially of the mucous membranes, inducing dryness of the throat and mouth and a tendency toward constipation.

The evidences of **cerebral fulness** are: restless excitation, mental exhilaration, headache, dilated pupils, intolerance of light, impairment of vision, uncertainty of muscular movement, the latter finally amounting to incoordination, with motor paralysis. There is delirium of a talkative character, in some, cases violent or furious, with illusions and hallucinations. In extreme delirious excitement, if the dose is a fatal one, there is feeble pulse, cold skin shallow respiration, and paralysis of the inhibitory nerves of the heart and heart-muscle, resulting in death.

In the influence of this remedy upon the capillaries of the skin, loading them up so actively, there is a contributory influence upon the capillaries of the spinal cord, which decreases the amount of blood in this locality, exercising often an exceedingly beneficial influence, especially when the patient suffering from spinal or cerebral congestion has cold skin, cold extremities, a cold, clammy sweat, dilated pupils, and great sluggishness of action. In this case, the remedy is absolutely specific and invariable in its influence.

*Belladonna* acts directly upon the heart. It is a pure stimulant to this organ, through its influence on the cardiac muscle and accelerator nerves. Previously it was thought that this drug increased arterial pressure. This now is considered doubtful, as positive proof is lacking. Notwithstanding the lack of proof in the laboratory, in the individual there is more force in the pulse, and there is extreme activity, as stated above, in the capillary circulation, especially when there is **profound congestion**, with cold relaxed skin, difficult breathing from **pulmonary hyperemia**, with a small compressible pulse and a deathlike pallor, followed, in extreme cases, by cyanosis. Then the stimulating influence of  $\frac{1}{80}$  or  $\frac{1}{60}$  of a grain of atropine will show itself unquestionably in a very few moments. This influence is very general. Strychnine expends its influence upon the nerve-centers, but the influence of atropine is upon the peripheries in an unquestionable manner, making it probably the most active of the diffusible stimulants. In this rapidity in removing the blood from the lung-cells it increases oxidation. It thus relieves the pulmonary hyperemia, overcomes cyanosis and promotes free, deep breathing.

**Specific Symptomatology**—There is a characteristic syndrome present in congestive types of many diseases which rationally indicates the need for *belladonna*. **Preliminary congestion** is a common condition in very many diseases and the influence of this drug, in antagonizing congestion and in producing a normal and effective equalization of the circulation brings it first to the mind of those who are studying actual conditions, in an endeavor to decide upon the needed remedy.

The syndrome referred to consists in chilliness, mental dulness, and inactivity; dull eyes with dilated pupils, eyes partly open when asleep; skin cool and relaxed, with occasional free sweating; cool extremities; general sluggish capillary circulation.

The Homeopaths claim that *belladonna* is especially indicated where the patients are full-blooded; seldom in anemic patients. Children, very active and with big brains, who are disturbed nights by night-terrors or dreams or show other evidences of restlessness are relieved by *belladonna*. The remedy acts best in full-blooded patients, where there is active localized heat, pain, redness, and swelling, evidences of local inflammation. That is a very common indication—local engorgement. When there are a full, bounding pulse, dull flushed face, dull eyes, dilated pupils, and throbbing carotids, the remedy is beneficial. Negroes, and those in warm climates, are especially susceptible to the action of *belladonna*.

*Belladonna* is not a specific fever-remedy, but in a febrile disorder there is some local engorgement somewhere; there is local capillary hyperemia and, if the remedy is not contraindicated by an already too active condition of the capillary circulation, it will be found of service in all acute congestive disorders with temperature. I have made it a practice for thirty-five years to combine this remedy with the directly indicated fever-remedy, until the symptoms of local engorgement were overcome, then to continue with the fever-remedy alone. When so prescribed, the influence of the remedy to restrain secretion need not be considered, as this influence is usually antagonized by the agent that is used to control the temperature. This is especially true of *aconite* administered in conjunction with it, which makes a most reliable combination.

**Therapy—*Belladonna*** is indicated at the onset of inflammatory conditions. Given early with *aconite*, when fever alone is present, hyperemia does not occur and the inflammation is aborted. If the disease is localized in any organ, displaying the phenomena named above, its influence often is quickly apparent.

In **diphtheritis, tonsillitis, croup, bronchitis, pneumonia, pleuritis and peritonitis**, *belladonna* stimulates the capillary circulation in the engorged organs, thus quickly preventing the local effects of the acute congestion or inflammation. At the same time it has a marked influence upon the fever when used in conjunction with the other indicated measures. In **chronic soreness of the chest**, *belladonna* is a valuable remedy. It is one of our best remedies in **whooping-cough**. If half a drop of the tincture of *belladonna* be given every two hours, alternated with one grain of alum in syrup, excellent results often are obtained.



In the therapeutics of all **continued fevers** this agent has an essential place in some stage of the fever. In fevers of **malarial** origin, there is no other remedy that will replace it. In the sthenic stage of these fevers, combined with *aconite*, it is sufficient for many of the indications. If there is an intermission or a marked remission, it may be continued alone, during the period.

In **typhoid fever**, it is an important auxiliary during almost the entire duration of the fever. Contraindications may arise, when it must be discontinued. It prevents congestion of the intestinal mucous membrane, and of the glands. This is indeed, an important function. It stimulates the heart to diffuse the blood uniformly throughout the entire capillary circulation, and thus prevents cerebral engorgement. The brain symptoms exhibit many of the *belladonna* indications and are quickly relieved by it. It may not convince the prescriber of its beneficial influence in only a single case, but its continued use, in many cases, is most convincing, as compared with those in which it is not used.

In **meningeal inflammation**, both of adults and children, it is often sharply indicated. This is especially true in subacute cases, where there is slowly increasing dulness, with a cold, moist skin, although there is an excess of two or three degrees of temperature. The pupils are dilated widely, the eyes are dull, the head is drawn back and crowded into the pillow, slowly and constantly rotated from side to side, the eyes are partly, if not widely, opened when the patient is asleep, and the urine passes involuntarily. These cases are sometimes exceedingly stubborn. *Belladonna* or its alkaloid in frequent doses is the most directly indicated remedy.

In the milder forms of **insanity** or other forms of **mental disease**, the Homeopathist prescribes *belladonna* where there is **violent delirium**, with livid face, dilated pupils, protruding eyes, fury, striking or biting, spitting, inclination to throw off the clothing or tear them, intolerance of light, extreme arterial tension; but he gives in high dilutions.

One physician says that in certain forms of **obesity**, with plethora and an inclination for general stasis, *belladonna* will assist in reducing the amount of fat.

**Erysipelas** will yield promptly to *belladonna* or atropine in small doses. It is given with *aconite* or alternated with *rhus*. It should not be omitted. It acts most promptly if the tissues are smooth, dark, and deep-red, with

sluggish circulation and burning, the inflammation being confined to the structure of the integument, and not in the areolar tissues, there being no pustulation or vesicles present.

In **eruptive fevers**, it is a most essential remedy. It quickly determines the eruption to the skin, and retrocession is almost impossible if it is used early. If retrocession has occurred, *belladonna* is the most prompt remedy known for restoration of the eruption.

In **scarlet-fever**, it has a salutary influence also upon the fever. It promotes exfoliation and assists in the general elimination of the products of the disease. It is directly opposed to the **renal hyperemia** or the **nephritis** so common as a result of scarlet-fever and diphtheria, and is our most reliable remedy with which to overcome this condition when it occurs. For the **nephritis**, a drop of the tincture may be given to a child ten years of age every two hours, alternated every hour with 1-2 grain of santonin. If there be a large quantity of albumin present, two grains of gallic acid every two hours will facilitate a cure.

Given in small doses after an infectious exposure and before the occurrence of scarlet-fever this agent will act as a prophylactic of the disease. The writer has administered the remedy to the other exposed children when a single case has appeared in a large family, none of whom had an attack. It must be given in small doses: ten drops of the tincture of *belladonna* in four ounces of water, a teaspoonful every two or three hours to a child of six years. Some of our writers have claimed that *belladonna* is just as effective in preventing the development of **diphtheria** and **measles** as it is in preventing scarlet fever. They think they have excellent reasons for this conclusion, and I am inclined to believe with them.

*Belladonna* is of value in **congestive neuralgias**. Full doses should be given. It will cure some exceedingly stubborn cases. It is an excellent plan to give it with ammonium chloride in stubborn chronic cases.

In **prostrating night sweats**, with enfeebled circulation and cool relaxed skin, belladonna or atropine is advised. The  $\frac{1}{100}$  of a grain of atropine at bedtime will accomplish excellent results. It may be given hypodermically. Medicinal doses of *belladonna* during the day will accomplish similar results.

In **headache** from fulness of the circulation of the brain dull frontal

headache, with indisposition, malaise, and cool skin, with mental torpor and a tendency to unpleasant dreams, this remedy is of value; 1 to 2 drop every hour or two.

The influence of this drug as an antispasmodic against involuntary muscular action gives it some value in **spasmodic colic** and **obstinate constipation**. It is in common use in laxative pills, to facilitate the action of the purgatives. In lead-colic, it is advised.

*Belladonna* in physiological doses is an excellent remedy for the treatment of the conditions present during the passing of **biliary calculi**. It very materially facilitates the passage of the stone, prevents chronic change occurring in the structure of the duct, relaxes the duct by a paralyzing effect upon the circular muscular fibers, and renders subsequent attacks less frequent and less severe.

It is a remedy of service in the treatment of **nephritis**. **Albuminuria** is the result of greatly increased renal blood pressure and capillary engorgement. *Belladonna* antagonizes all the pathological processes in a direct manner. In acute cases, its influence is apparent from the first. In subacute or chronic cases, its use must be persisted in, but the results are equally satisfactory where structural change has not taken place in too great a degree. Other indicated measures are not to be neglected.

In **incontinence of urine**, where there is a plethoric tendency, a stagnant capillary circulation or the tissues are relaxed, *belladonna* is a prompt remedy. It is useful in **diabetes insipidus**, with cold extremities. In these cases, it should be given in full doses.

Professor Whitford long advised *belladonna* for **painful menstruation**. There is an extreme form of this difficulty, in which the patient becomes very cold; the skin is cold and clammy, the pain is extreme, the hands and feet are icy cold, and the temperature subnormal. *Belladonna* in full doses to its physiological effect is directly indicated here. The patient can be put into a hot bath, with only good results if this is not overdone, but the equalization of the circulation can be accomplished well with *belladonna*. Occasionally a hypodermic of atropine will accomplish the results more readily.

By stimulating the capillary circulation in the ovaries this agent is directly useful in the milder forms of **congestive dysmenorrhea**. The direct indications for the agent are nearly always present in the cool

skin, cool extremities, dulness, chilliness, and inactivity. It may be given in drop-doses preceding, during or subsequent to the period.

Its influence in stimulating the capillary circulation of the ovaries in stasis renders it of value in the treatment of sterility from inactivity of those organs. If there are hysterical manifestations at the menstrual epoch, with deficient menstruation, *pulsatilla* may be used in conjunction with it.

The agent will **retard** the **secretion of milk** in the lacteal glands, and is of service when, from the death of the child or from acute inflammation, as in severe mastitis, where abscess is threatened, or from other causes, it is necessary to suppress the secretion. It may be given both internally and applied externally, with good results. Its influence is wide and salutary. When restoration of the secretion is desired, it should be promptly discontinued.

Externally, *belladonna* is used in **spinal tenderness**, with congestion, also in congestive **occipital headaches** and **lumbago**. It is applied in all conditions inducing a **lame back** and in **neuralgia** of the **spinal** and **sacral nerves**. In violent acute inflammation, it acts as a sedative and anodyne while it exercises its healing properties. It is used in **rheumatism**, in sprained and painful joints, and in boils and carbuncles.

The extract of *belladonna* is used in **relaxing a rigid os uteri**. An ointment is made and applied directly to the os. In this form, it is of value in spasmodic urethral stricture and in painful congestive conditions of the rectum. A prepared *belladonna-plaster* may be applied over inflamed organs while the agent is being given internally.

In the treatment of **phlebitis**, for which we have very few specific remedies, the late Professor Clark, because of its power in overcoming hyperemia of the venous capillaries and venous walls, claimed that *belladonna*, in the form of a strong ointment made from the concentrated extract and kept hot, would produce very prompt results. He invariably used it, and claimed to have had no failures. He would watch for the physiological effect—the dryness of the mouth, dilatation of the pupils, and dry throat; he would then remove it for a while, subsequently to reapply it in the same manner.

## Atropine.

Atropine is the essential alkaloid of *belladonna*. It is difficult to obtain entirely free from hyoscyamine.

**Description**—It occurs as a white crystalline body, usually in minute acicular crystals, or as an amorphous white powder of a bitter, acrid, nauseous taste and odorless. Upon exposure to the air it assumes a yellowish color. It is soluble in 130 parts of water and three parts of alcohol, fifty parts of glycerine and quite freely in ether and chloroform.

## Atropine Sulphate.

**Description**—This salt is perhaps more commonly used in medicine than the unsaturated alkaloid, atropine. It is a white crystalline powder, odorless and permanent. It is freely soluble in water and in alcohol, nearly insoluble in ether and chloroform.

**Therapy**—The uses of atropine and atropine sulphate are those of *belladonna*. Their concentrated form greatly increases the violence of their action. *Belladonna* is preferable for constant daily prescribing. These alkaloids are of much advantage in narcotic poisoning and as stimulants in the recovery of patients from shock. The  $\frac{1}{100}$  of a grain will produce the physiological symptoms in a healthy patient. This dose is seldom exceeded. From  $\frac{1}{150}$  to  $\frac{1}{200}$  is usually sufficient. The  $\frac{1}{50}$  of a grain is the maximum dose. They are best used hypodermically.

Solutions of atropine for hypodermic use should always be made fresh. Old solutions are to be avoided. The fluid becomes infected, and the alkaloid is partly destroyed.

Atropine is used to **dilate** the **pupil** in examination of the interior of the eye, and it is useful in acute inflammation of that organ. It empties the capillaries of an excess of blood, abating the inflammatory processes. It prevents adhesions in iritis, and assists in breaking up any that may have occurred. Two grains of atropine are dissolved in an ounce of distilled water, or better yet, in an ounce of castor oil deprived of its ricinic acid. From one to five drops of these solutions may be instilled into the eye. The oleaginous solution has advantages over the aqueous solution.

Atropine is of superior advantage, used hypodermically, in certain

emergencies; in **narcotic poisoning**, and as a stimulant in the recovery of patients from shock. The  $\frac{1}{100}$  grain dose will produce the physiological symptoms in a healthy patient. This dose seldom is exceeded, and from  $\frac{1}{200}$  to  $\frac{1}{150}$  grain usually is sufficient. The  $\frac{1}{50}$  of a grain is the maximum dose.

Within recent years, the action of atropine given hypodermically for controlling **hemorrhage** has gained so many advocates that it has now become established as a most reliable remedy for that purpose. Doctor Waugh was among the first to bring this use of it forward. His arguments have been unanswerable until its position is now fairly established. He clearly demonstrates its rational, reliable influence for this purpose. From  $\frac{1}{50}$  to  $\frac{1}{100}$  grain is injected, and the doses repeated as needed. It is exceedingly useful in uterine hemorrhages.

Doctor Paulding, writing in The Medical Council, relates some experiments with the hypodermic injection of atropine in **acute alcoholism**. There were eleven boys less than 12 years old playing in a freight-yard, where some high wines in barrels were standing on open cars. A barrel was tapped with a gimlet and through a straw all of the boys drank freely of the spirits. Doctor Paulding was called to treat one of them. He observed the extreme dilatation of the pupils. This is the characteristic indication for atropine, determined its use, and he gave a hypodermic of  $\frac{1}{200}$  grain. This one dose saved the boy's life. The other ten boys died. The doctor reports two other cases where death seemed imminent but which were saved by a single hypodermic injection of  $\frac{1}{100}$  grain of atropine.

Doctor Shadid dissolves  $\frac{1}{60}$  of a grain of atropine in 2 ounces of water and gives one teaspoonful every ten minutes until there is relief, in **certain headaches** which follow prolonged worry, excessive mental exertion, with more or less exhaustion.

In **acid stomach**, where the hypersecretion of the acids is great, atropine, an occasional dose as needed, has been found to exercise a good influence.

Mild solutions of atropine dropped into the ear will relieve earache.

The use of **cactus** in subnormal temperatures has strong advocates, but its

influence is positively enhanced by combining it with atropine, giving the two in comparatively full doses for a time.

The injection of atropine at the constriction, in case of **hernia**, or the application of the extract of *belladonna* over the enlarged hernia, has caused the **spontaneous reduction** in a number of cases. It is a powerful laxative in spasmodic or other constrictions.

Atropine has been used with excellent advantage in the treatment of seasickness.

### **HOMATROPINE HYDROBROMATE.**

Formula— $C_{16}H_{21}NO_3HBr$ .

Synonym—Hydrobromate of Homatropine.

**Description**—In the formation of Homatropine the chemical process consists of the decomposition of the amygdalate of tropine by hydrochloric acid. The Hydrobromate is a crystalline powder or minute white crystals. Soluble in six parts of cold water, sparingly soluble in alcohol.

**Therapy**—The agent is not advised for internal administration, although in doses of  $\frac{1}{20}$  of a grain it has been given for excessive night sweats. It is used in the, **determination of refraction**, and in examination, in **ophthalmic practice**. Its advantage is in its promptness of action as a **mydriatic** and its transient influence. It is used in the strength of four grains of the salt to an ounce of distilled water. It is in common use for complete paralysis. In this it is necessary to use a stronger solution—two per cent generally. A few drops instilled into the eye and repeated a few times, a few minutes apart, will in a short time accomplish the desired result. The pupil begins to dilate about ten minutes after it is first introduced. The effects are completely dissipated in the course of about thirty-six hours, while atropine retains its influence for, perhaps, ten days, and hyoscyamine for six or eight days.

The main objection to the use of homatropine is the hyperemia of the conjunctiva which follows its use. There is seldom, however, any acute inflammation. It does not so readily produce constitutional effects as atropine if absorbed.

In the treatment of inflammations it is not as serviceable as atropine. Because of the increased engorgement of blood in the part, it increases the condition. A further advantage of atropine over this agent in inflammations is its permanency or persistency of action.

## **AVENA.**

## ***Avena sativa.***

Synonym-Oats.

### **CONSTITUENTS—**

Avenin, fixed oil.

### **PREPARATIONS—**

Specific Medicine Avena. Dose, from five to sixty minims.

**Concentrated Tincture Avena.** Dose, from five to thirty minims.

As a nerve stimulant and permanent tonic, this valuable agent was comparatively unknown, when the first edition was issued. The writer took the responsibility of introducing it here through the confidence acquired by observing its prompt and satisfactory action during an experience of twenty years in the treatment of nervous diseases. There are many well-known and lauded agents that are hardly to be compared with this for prompt action upon the nervous system.

**Administration—***Avena Sativa* should always be given in appreciable doses. Fifteen drops, three or four times daily, well diluted, will usually meet the case. It may be given in doses of from five to sixty drops in rare instances. It should, however, never be given in larger quantities than twenty minims unless the patient is thoroughly accustomed to the remedy, and has found the usual dose insufficient. Otherwise there is danger of obtaining the physiological effect of the drug, which is announced by pain at the base of the brain. When this symptom makes its appearance the medicine should be discontinued for a day or two, and then given in reduced doses.

If administered in hot water during the day, its action is much quicker, and in cold water at night on retiring it has a more extended influence. When given in hot water, its action at times, is almost instantaneous.

**Physiological Action—**Its selective influence is directly upon the brain



and upon the nutritive functions of the organism, increasing nerve force and improving the nutrition of the entire system. The influence of a single full dose is promptly felt, similar to the influence of any active stimulant, but more permanent. It is a stimulant, sedative and direct nutritive tonic, apparently restoring the wasted elements of nerve force.

**Specific Symptomatology**—The following indications for the use of this remedy are given by King: Spasmodic and nervous disorders, with exhaustion; the **nervous debility of convalescence, cardiac weakness**, from nervous exhaustion; **spermatorrhea**, with the nervous erythism of debility. In general neurasthenia it promptly relieves the almost unbearable **occipital headache**, so constant, and evidenced by an enormous waste of the phosphates in the urine, common with nervous exhaustion.

It is a remedy of great utility in loss of nerve power and in muscular feebleness from lack of nerve force.

In the overworked conditions of brain workers—ministers, physicians or lawyers—in the **general prostration** from great anxiety and worry, it acts in the same lines as phosphorus and in many cases fully as satisfactorily.

With these, there is so-called **nervous dyspepsia**, atonicity, in fact, of the entire gastrointestinal tract. There is heart feebleness with some irregularity; there is cool skin and cool or cold extremities: there is melancholia, irritability, peevishness, vagaries of thought, morbid desires and fancies, usually accompanied with autotoxemia which demands persistent elimination. With these *avena* is directly indicated.

In **sexual neurasthenia** it is the remedy par excellence, as it has a selective influence upon the nerve structure of the genito-urinary apparatus.

**Therapy**—It will be found directly serviceable in paralysis and wasting disease of the aged, in **nerve tremors**, and especially in **chorea** and in **paralysis agitans**. It has been beneficial in **epilepsy**.

In the **convalescence of prostrating disease**, and during the **asthenic** or later stages of inflammatory and **exanthematous disease** and **diphtheria**, it is as important as quinine and strychnia, and certainly as reliable.

The local paralysis of diphtheria, has no better antidote, and if given in

hot infusion during the course of acute exanthematous disease, it quickly determines the eruption to the surface and promotes convalescence.

Because of its selective action upon the nervous structure which supplies the reproductive organs, it will be found to allay nervous excitement, nervous **palpitation** of the **heart**, insomnia and mental weakness, or failure and general debility caused by **masturbation**, over **sexual indulgence**, or **onanism**. It is a sovereign remedy in **impotency**. This writer has had better satisfaction in the use of this agent in the temporary impotence of young newly married men, than from any other single remedy or combination of remedies. If there be prostatic or other local irritation, a combination of this agent with *saw palmetto* will cover the field.

In **uterine** or **ovarian disorders** with **hysterical manifestations** it is of much service. The nervous **headaches** of the **menstrual epoch**, especially those accompanied with burning on the top of the head, and sick headaches apparently from disordered stomach at this time, or in fact sick headache at any time if accompanied with nervous weakness, are all promptly benefitted by *Avena Sativa*, provided gastric acidity is neutralized. In atonic **amenorrhea** with great feebleness, it is valuable. In neuralgic and congestive dysmenorrhea, with slow and imperfect circulation and cold skin and extremities, it is an excellent remedy.

Dr. Simmons of Toledo, Ohio, in the Gleaner, mentioned the use of *avena* in **acute coryza**. His method resulted in a manner highly satisfactory in every case. Those who are subject to colds in the head, he furnishes with a small vial of specific *avena*. With the first indication he has them take twenty drops of hot water. This may be repeated or increased to thirty or forty drops in two hours, but the third dose is usually sufficient to remove every evidence of coryza if present, and to prevent its occurrence. The first evidences of its action may appear in five minutes. If twenty drops do not produce a feeling of warmth in the face and flushing of the skin, the next dose is increased.

This agent exercises a restorative power in overcoming the **habits** of alcohol, *tobacco*, morphine, and *opium*. It will enhance the value of other prescribed agents.

In the treatment of the morphine habit, our subsequent experience has not confirmed our early anticipations, and yet it is a useful addition to

the treatment. It should be used in conjunction with *capsicum*, strychnine, *xanthoxylum*, or hyoscyamine hydrochlorate, and sustained in its action by persistent concentrated nutrition.

In conjunction with *cactus*, or *apocynum*, as these remedies are indicated, it will be found of much service in the treatment of **weak heart**, and the resulting complications. Webster lays much stress upon its action as a remedy to prevent the recurrence of **cardiacrheumatism**. This influence would be facilitated by combination with specific alteratives, and remedies that will facilitate the elimination of uric acid, without depressing the action of the heart.

The persistent use of this remedy, especially if conjoined with *capsicum* or minute doses of strychnine, will be found of great assistance in certain cases of paralysis. Its nerve restorative and persistently tonic properties are exercised fully here.

In a case of cerebral hemorrhage, from which recovery was not to be expected, Dr. French used *ergot* and *avena* with bromide as an occasional sedative, with satisfactory results. He says: "I also give *avena* for the symptoms of nervous breakdown and exhaustion, regardless of the name of the special disease from which they may be suffering. Some patients claim to realize almost instantaneous effects on taking it while others are less easily affected. In all well-known cases selected for the indications of paralysis and deficiency of nerve power, it seems to me to be good."

**Co-operatives**—It works in harmony with strychnine in its stimulating influence, but is more permanent in its effect. It exercises an influence similar to quinine after prostrating fevers and is similar to *coca* and phosphorus in its restorative powers. *Zanthoxylum* will enhance its general stimulant influence, and it may be combined with *cimicifuga* and *scutellaria* and *gelsemium* in chorea. It is antagonized by nerve depressants and nerve sedatives which exercise no stimulant or restorative influence.

There is no danger of forming the habit of taking the drug, as it can be suddenly abandoned at any time without evil consequences, even when given in large quantities.

## **TOLU.**

## ***Balsam tolu.***

### **PREPARATIONS—**

**Syrupus Tolutani**, Syrup of Tolu; dose, from two to six drams.

**Tincture Tolutani**, Tincture of Tolu; dose, from one-half dram to two drams.

**Physiological Action**—The remedy is disinfectant-antiseptic, and when applied to the skin and to raw surfaces it is stimulant. It promotes healing of wounds and restores impaired and abnormal conditions of the skin. It is direct in its action upon mucous membranes, exercising a tonic and healing influence and restoring deficient secretion. It is eliminated freely through these membranes and through the kidneys, hence its beneficial action upon these structures.

**Therapy**—The agent is used in all forms of **bronchial irritation**. Its influence is not so readily observed in the acute forms as in the subacute and chronic forms. It is not sufficiently active to be depended upon to the exclusion of other more direct remedies, but it is serviceable in facilitating the action of these remedies and in modifying the action of stimulating or irritating expectorants.

In the treatment of the various forms of **cough**, induced by disease of the bronchi, the direct remedies may be often administered to excellent advantage in the *syrup of tolu*. Short, sharp, hacking, dry coughs are directly benefited by its use. On the other hand coughs accompanied with an extreme outpour of thick mucus, with an atonic, relaxed condition of the mucous membranes, are relieved by this agent.

It is serviceable in **pharyngitis** and in **laryngitis**. In **whooping-cough** it is an excellent menstruum for the administration of the direct remedies.

In diseases of the gastro-intestinal tract, or of the kidneys where *turpentine* is indicated, that agent may be administered to an excellent advantage in the *syrup of tolu*.

## **BAPTISIA.**

## ***Baptisia tinctoria.***

Synonym—Wild indigo.

### **CONSTITUENTS—**

Baptisin (a bitter glucoside), baptin (a purgative glucoside), baptitoxin (a poisonous alkaloid), resin, fixed oil.

#### **PREPARATIONS—**

**Extractum Baptisiae Alcoholicum**, Alcoholic Extract of Baptisia. Dose, from one to four grains.

**Specific Medicine Baptisia**. Dose, from one-fourth to ten minims.

**Physiological Action**—When fresh and taken in a sufficiently large dose *Baptisia* causes violent vomiting and purging. In poisonous doses there is an acceleration of respiration and reflex activity followed by death from central paralytic asphyxia.

The agent has a bitter, somewhat acrid and astringent taste. In large doses it is somewhat violent in its influence upon the gastro-intestinal tract, producing increased intestinal secretion of the entire glandular apparatus. It especially influences the liver. In overdoses it is emetic and cathartic, in some cases causing an excessive flow of viscid saliva. It is laxative in small doses, producing soft, unformed stools. It increases the biliary secretion, sometimes most excessively. It exercises its influence more satisfactorily in asthenic fevers than in sthenic fevers.

**Specific Symptomatology**—It is especially indicated where, with **suppressed secretion** and marked evidence of **sepsis**, there is ulceration of the mucous membranes of the mouth, or **intestinal ulceration**.

In **low fevers** with dark or purplish mucous membranes of the mouth, tongue dry and thin, with a dark coating, face dusky and suffused, circulation feeble.

Fyfe gives as its specific indications those much the same as were given in the previous writing on this remedy—dusky discoloration of the tongue and mucous membranes; full and purplish face, like one who has long been exposed to the cold; protracted **typhoid conditions**, with continued moist, pasty coating on the tongue; sleek tongue, looking much like raw beef; dark, tar-like fetid discharges from the bowels-prune juice discharges; general putrid secretions.

Dr. Fearn called attention to the indication of a dusky, purplish color often distinctly marked in typhoid patients upon one side of the face. Ten or fifteen drops of *baptisia* in water during twenty-four hours has corrected that condition quickly for him, improving the patient.

The indications for *baptisia* are often present in infectious exanthema such as **smallpox** or **scarlet fever**.

These indications resemble those also which call for acids. Selections should be made between hydrochloric, nitric, hydrobromic, or hydriodic acid, to be given in conjunction as required.

**Therapy**—With the above indications the agent has been widely used for many years by our practitioners in the treatment of typhoid conditions, and has established its position as an important remedy.

It has an apparent dynamic influence upon the glandular structure of the intestinal canal, directly antagonizing disease influences here, and reenforcing the character of the blood, prevents the destruction of the red corpuscles, and carries off waste material. In malignant tonsillitis and diphtheritic laryngitis it has been long used with excellent results. In **phagedena** with gangrenous tendencies wherever located, it has exercised a markedly curative influence.

It is useful in **dysentery** where there is offensive breath and fetid discharges of a dark prune juice character.

In **scarlet fever**, with its specific indications, it is a useful remedy. Large doses are not necessary, but it should be employed early and the use persisted in.

In the treatment of **low fevers** this agent is said to exercise marked sedative power over the fever. Homeopathic physicians prescribe it to control the fever. There is no doubt that in proportion as the cause of the fever is destroyed, the temperature abates. Any inhibitory influence directly upon the heart and circulation cannot be attributed to it, yet it soothes cerebral excitement to a certain extent, having a beneficial influence upon delirium.

It is advised in all diseases of the glandular system, and in **hepatic derangements** especially, with symptoms of this character. In the various forms of **stomatitis**, **putrid sore throat** and **scarlatina maligna**; in **inflammation of the bowels**, where there is a tendency to typhoid conditions, especially ulcerative inflammation of any of the internal organs; in **dyspepsia**, with great irritability and offensive decomposition of food; in **scrofula** and in cutaneous infections, the agent should be long

continued. In the long protracted and sluggish forms of fevers, with great depression of the vital forces; in **ulceration** of the **nipples** or **mammary glands**, or of the cervix uteri, it is spoken highly of.

There is a dynamic influence exercised by *baptisia* upon the entire glandular structure of the body when adynamia is present, more particularly upon the **intestinal glands**. This influence directly reinforces the blood in its effort to throw off the disease, and restore normal conditions. It is because of this influence that it is of value in typhoid.

Dr. Hainey says that in whatever condition the patient complains of **difficult respiration** where the lungs feel compressed, where the patient cannot lie down because of fear of suffocation, if he sleeps, he has found *baptisia* in small doses every hour positively curative. He got this suggestion from a homeopathist, and he has proven it to be reliable.

Others have found **typhoid cases** with the characteristic symptoms, where the brain seems to be overwhelmed with toxins, where the patient has times where the breathing is rapid or panting, alternated with slow respiration, in which this remedy is very prompt. The condition may also be present in diphtheria, and in the so-called black measles or other highly infectious disorders.

Fyfe advises it in all diseases of the glandular system, and in **hepatic derangements** especially, with symptoms of this- character, in the various forms of **stomatitis**, **putrid sore throat** and **scarlatina maligna**, and in **inflammation of the bowels**, where there is a tendency to typhoid conditions, especially ulcerative inflammation of any of the internal organs. In **dyspepsia**, with great irritability and offensive decomposition of food. In scrofula and in cutaneous infections the agent should be long continued. In the long, protracted and sluggish forms of fevers, with great depression of the vital forces, in ulceration of the **nipples** or **mammary glands**, or of the cervix uteri, it is spoken highly of.

It will thus be seen that the agent is properly classed among the alteratives, as its alterative properties stand first, but its pronounced tonic influences will be quickly observed. It overcomes weariness, "that tired feeling," produces a sense of vigor and general improved tone and well-being.

## **BUCHU.**

*Barosma betulina,*  
*B.crenulata, B.serratifolia.*

### **CONSTITUENTS—**

Volatile oil, rutin, resin, gum, albumen.

### **PREPARATIONS—**

**Extractum Buchu Fluidum**, Fluid Extract of Buchu. Dose, from ten to sixty minims.

**Therapy**—The agent acts directly upon the **urinary apparatus**, stimulating the kidneys, and increasing both the watery and solid constituents by its tonic and restorative influence. It is also valuable when there is greatly increased action from debility, as it lessens the quantity of water secreted in such cases. It relieves irritation of the bladder and urethra, and is valuable in **catarrh** of the **bladder**, **pyelitis** and **gonorrhoea**. In chronic cases of irritable bladder it has long been used, especially if caused by persistent excess of **uric acid**. It controls the irritation, reduces the excess of acid, and relieves the urinary incontinence depending upon it. It relieves irritation of the bladder sphincter, increases the tone of the muscular structure and overcomes any existing paralysis.

It has been advised as a general tonic, a stomachic and an anti-dyspeptic, but we would hardly depend upon it for any positive curative influence in these cases.

## **BENZOIN**

The **Tincture of Benzoin** has been a popular remedy in the past. It is given in doses of from one-half to one dram. The **compound tincture**, composed of *benzoin*, *storax*, *balsam of tolu*, and purified *aloes* with alcohol is advised for its influence in laryngeal and bronchial difficulties. The dose is from one-half to two fluid drams of the official U. S. P. preparation.

The **Compound Tincture** is vaporized in hot water, and the vapor is inhaled in chronic and acute laryngitis. It is useful in many forms of bronchial irritation without secretion. Its antiseptic properties are not great, but are apparent where there is a scanty, fetid expectoration.



## **BETULA.**

## ***Betula alba.***

Synonym—White Birch.

This agent has been quite extensively used in Europe from the time of the Middle Ages. One of the old writers—Dragendorff—says the bark is given in malarial fevers, in dropsy, gout, disease of the lungs; also in abscesses, and in skin diseases and itch, and where there is excessive sweating of the feet. The juice or sap from the tree is used in kidney and bladder trouble.

The following facts were furnished me by Dr. Isenburg of Hamburg, Germany:

The bark contains betulin, a resinous substance, and betulalbin. The bark of the black variety contains glucosides, gaultherin, and an essential oil. Winternitz and Jenicke both recommend the remedy for its **diuretic effect** and for its influence in dissolving **kidney stones**.

Winternitz made an infusion of the dried leaves in the preparation of one part to six or eight parts of water by weight. Of this he would give from four to six ounces at a dose for albuminuria. He claimed that albumin epithelial scales and casts would disappear entirely. The quantity of the urine would increase to from six to ten times its bulk. Jenicke used it in **nephrolithiasis**. In one case, a stone had been discovered in the kidney by an X-ray. The urine was concentrated, sometimes bloody, contained pus cells, and uric acid in large quantities with three and one-half per cent of albumin.

This tea reduced the quantity of albumin, relieved the pain, improved the general health of the patient so that in twelve weeks' time he was entirely cured, the urine being normal. There has been passed from time to time with the water tiny pieces of stone from the kidney. We have had reports from a number of writers in this country concerning the action of this remedy in a similar manner, and all confirm the observations made by the German writers.

## **BOLETUS.**

## ***Boletus laricis.***

Synonyms—White Agaric (*Agaricus Albus*), Larch Agaric, Purging Agaric, Fungus Agaric, Spunk.

## CONSTITUENTS—

There is found an excess of resin, agaric acid, agaricol, cholesterin, and agaricin.

## PREPARATIONS—

**The tincture**, dose from one to five drops.

**Agaracin**, from one-sixteenth to one-fourth of a grain.

**Specific Boletus**, from one-fourth of a drop to five drops.

**Specific Symptomatology**—Chilliness at regular intervals, followed by marked fever. Alternate chills and flushes of heat, with severe aching in the back, colliquative sweats, night sweats of phthisis.

**Therapy**—The remedy is applicable to all conditions of **malarial origin**. It is especially useful in those localities where malaria and the results of malaria prevail. The symptoms are languor, dullness, and general malaise, long continued, with the usual results, such as disordered digestion, lack of appetite, heavily coated tongue, pale mucous membranes. Usually there is a bitter taste in the mouth, often persistent, with constipation, and a dull, **persistent headache**. The temperature will be quite erratic. In some cases there is a little fever always present. In others, there is a marked intermission. The intermission, or remission, may be irregular, not only in time, but in amount.

The agent is astringent apparently, and overcomes all excessive secretion. The broncho-pulmonary secretion of incipient **phthisis**, or the **night sweats** of the protracted cases, are benefited by this remedy. It also controls the rapid circulation and seems to exercise a favorable influence over the **hectic fever**. It also favorably influences the diarrhea of this disease. It seems to allay the thirst and control the cough with many of these patients.

It will **arrest the flow of milk**, in the nursing woman, and will correct in many cases the tendency to **passive hemorrhages**. Some claim that it will check arterial hemorrhage, making the application of a ligature unnecessary.

Dr. Henderson uses *boletus* as a treatment for **alcoholism**. Those who are constantly under the influence of alcohol, trembling, weak with cold skin, he gives one or two drops of the specific medicine every two hours.



In poisonous doses it causes a fall of temperature, dizziness, delirium, weak pulse, cold perspiration, dilated pupils and other evidences of a depressing action on the nervous system. The recent root is highly irritant when locally applied, and capable of producing, vesication. The results from laboratory observations of this agent do not to any degree suggest its clinical adaptations. These have been determined by the closest of clinical observation.

**Specific Symptomatology**—The following symptoms demand the use of *bryonia*: Distress or pain in acute inflammatory disease, which is aggravated by movement increased by pressure; elevated temperature, with hard, frequent, vibratile pulse; the muscular structures sore and tender, as if bruised; acute lung or bronchial disorders, with no expectoration, dry cough, short and harsh, or hacking, with soreness increased by coughing; flushed right cheek frontal pain extending to the basilar region; irritating cough.

Again: Sharp, cutting, lancinating or tearing pain from serous inflammation; increased muscular tension, and tenderness on pressure, aggravated by motion; headache on the right side; inflamed lung structure, with pain and soreness relieved by lying on the inflamed side, usually with a bright spot on one cheek. Chronic soreness in the chest, without fever, with harsh, dry, sharp cough. With this latter indication its influence is often enhanced by alternation with small doses of *belladonna*.

*Bryonia* promotes the elimination of heat, and like *aconite*, it opposes the dryness of the mucous membranes induced by inflammation which suspends secretion. It acts upon all serous membranes directly as stated. It also acts upon the viscera covered by these membranes. It is thus valuable in **enteritis**, in the inflammation of the **glandular organs**, and in pulmonary and bronchial inflammations, always looking for its precise indications—tenderness on pressure, tiny shooting pains, or pain increased by motion.

The absorption of inflammatory products, either of a serous or sanguineous character, is greatly facilitated by this remedy. It opposes the breaking down of tissue and pus formation. Its influence upon inflammatory processes and upon the results of inflammation is even more positive in certain cases than *aconite*.

**Therapy**—*Bryonia* is a remedy of great value in the treatment of all acute

inflammations of the thoracic viscera or of the pleura. In **pleuritis** its indications are usually all present. Uncomplicated cases will yield to this agent alone. Occasionally, though, more rapid results will be accomplished by alternating it with *aconite* or with *asclepias tuberosa*. It must be continued if effusion be present.

One physician, in two cases of pleurisy where there was at least a pint of serum in the pleural sac of each, gave *bryonia* alone, and persistently using it for a reasonable time, the entire quantity in both cases was absorbed, and the patient made an excellent recovery.

In **bronchitis**, with short, quick cough, with quick, sharp pains, especially if the sputum be bloody or frothy, *bryonia* acts directly. It should be given in small doses, at short intervals, and should be persisted in. It will subdue the pain and the cough promptly and exercise as marked an effect on the fever as any special sedative known.

In **pneumonitis** it may be positively indicated. If used in combination with other specific remedies, abatement of the symptoms will be even more rapid in these cases. Although opposed to complex medication, the author has used the following combination in these conditions in infants and children with the most happy results. The two prescriptions should be given as specified in alternation. In severe cases in small children, or during severe paroxysms, it is very desirable to give a yet smaller dose and alternate the remedies every twenty or thirty minutes:

Rx— Tinct. Aconiti, U. S. P.	5 drops
Tinct. Belladonnae, U. S. P.	8 drops
Aquae Dest.	32 ounces

M. Sig. Half of a teaspoonful every hour, alternated with the following prescription every half hour:

Rx— Tinct. Bryoniae	8 drops
Tinct. Ipecacuanhae	4 drops
Aquae Dest.	32 ounces

M. Sig. Half teaspoonful every hour, alternated with the above as stated, every half hour.

I have in late years been using *bryonia* in **acute neuritis**. I have found in many cases the precise indications for the use of this remedy, and in one

exceedingly bad case, I got excellent results, indeed, but I combined it with Mag. Phos. 3x, though the indications for *bryonia* alone were very plain.

Dr. Henderson specifies a form of **neuralgia of the face**, usually on the right side caused by cold or from a draft with dull pain and stiffness or tenderness of the muscles, especially if there should be a sharp catch under the right shoulder or in the right side increased by inspiration as immediately relieved by a combination of *bryonia* and *sticta*, ten drops of each in four ounces of water, a teaspoonful every half hour.

*Bryonia* controls the temperature and the fever processes, when the exact indications are present, as positively as any of the other known special sedatives.

**Synovitis** with sharp pains on motion wherever located, demands *bryonia*, and **rheumatic conditions**, where the distress is increased by movement, with sudden, sharp pains, especially where there is acute rheumatic swelling of the finger joints, it is demanded. The **fevers of infancy**, where movement causes pain, evidenced by sharp, crying out; inflammation of any organ, accompanied with sharp stabbing pain or stitches, a sensation of fullness and deep soreness are controlled by it.

In **protracted fevers**, with dry mucous membranes, cracked lips, excessive thirst; constipation, with hard, dry stools; scanty urine, with dark color and high specific gravity, *bryonia* should be given, and in asthenic fevers the remedy in small doses may be persisted in, with no depressing influence upon the patient.

In chronic **disorders** of the **liver** or **spleen**, with deep-seated soreness and quick, shooting pains, especially if there be some elevation of the temperature, it will produce the best of results.

It should invariably be used in **acute appendicitis** from the appearance of the first indications. I am convinced that we have no more important or efficient remedy than this in this disorder. It will save many operations if given early.

In a most obscure case, in consultation at one time, I discovered extreme tenderness on pressure over the pancreas—little shooting pains—pain increased by motion, the patient lying immovable on the back,

temperature of 101  $\frac{1}{2}$  degrees. I diagnosed **acute pancreatitis**. The patient was certainly near death. The persistent use of *bryonia* relieved every condition in a satisfactory manner, causing me to conclude that the diagnosis was correct, and that we had prevented the formation of pus by the prompt use of this remedy. When these indications pointing to the pancreas are present in **diabetes**, this remedy should be given.

Dr. Jones says that *bryonia* is the remedy for inflammation of the **mammary glands** when those glands are of stony hardness, pale, hot, painful and sore, when they must be supported. He says that it is a remedy for **headache** when it is of a bursting character, as if the head would split, worse on movement or on stooping over, relieved by lying still. He has found where a patient suffers from nose bleed at the time of menstruation, that *bryonia*, given in small doses, will restore the normal condition.

I am so confident of the action of this remedy in **cough**, especially in children, that with many patients suffering from no other trouble but a dry, hacking, persistent cough with or without some irritation and soreness, I am apt to give *bryonia* as the first remedy, or I combine it with any other simple, directly-indicated remedy.

Auxiliary measures should be adopted as the character of the case suggests.

In **peritonitis** with quick, sharp pains, flushed face and anxious countenance, *bryonia* is indicated. This agent, in mild cases, will subdue all the inflammatory processes and **control the pain** satisfactorily without **opium**

During the early stages of any inflammation in which *bryonia* seems to be indicated, *aconite* will facilitate its action and assist in the control of the processes, but *bryonia* can be continued to most excellent advantage when the results of inflammation are extreme, and weakness and prostration are present, when *aconite* might have a depressing effect and be contra-indicated.

In acute **pericarditis** and **endocarditis** the specific indications for this agent are often present, and its influence is prompt. It will be of great service if there is effusion with evidences of decreasing power of the heart.

In acute **rheumaticinflamm** ation of the **heart** or pericardium it is one of the most direct remedies. Properly combined with indicated auxiliary measures, no remedy will act more satisfactorily:

It is of much value in typhoid conditions, especially in **typhoid pneumonia** or in **pleuropneumonia** or broncho-pneumonia with typhoid complications. In **typhoid fever** with severe enteric symptoms this agent is often of great service in restraining the retrograde processes and controlling excessive temperature. In **septic fevers** its influence will be marked and valuable. In septic peritonitis it may be given alternately with *aconite*, or *aconite* and *echinacea*, the latter remedy directly controlling the sepsis.

*Bryonia* is indicated in **rheumaticfever** and in acute **rheumaticarthritis**. It must be given as in other acute conditions, in small doses frequently repeated. In muscular rheumatism and in rheumatic muscular pains it will accomplish good results if given in conjunction with **cimicifuga** or alternated with **cimicifuga** and **aconite**. In acute rheumatism of the joints of the fingers or hand, it seems to be of value.

Because of its direct action on serous membranes, a few years ago I was led, from the extreme tenderness and pain on pressure, to prescribe *bryonia* for **spinal tenderness**. I immediately found that I had made the important discovery of one of the best remedies with which to relieve that serious condition. Indications for other remedies will suggest their combination in some cases, especially when this condition is present during pregnancy.

In **mastitis** or **orchitis** it is useful, and if the fever be high, the pains sharp and cutting and the face flushed, the influence will be prompt, indeed. In these cases, it is seldom given alone, but usually with *aconite*, *phytolacca* or other direct remedies.

## **BONDUC.**

## ***Caesalpinia bonducella.***

A new substitute for quinine is brought forward by Keshav Lal J. Dholakia, Delhi, India, in Practical Medicine. He recommends the powdered kernels from roasted **bonduc** nuts. These are derived from a legume-bearing climbing plant, *Caesalpinia bonducella*, found almost throughout India.



The drug is antiperiodic, febrifuge, tonic and anthelmintic. It is given in doses of from ten to fifteen grains every four hours. It is described as closely resembling quinine in action, as harmless to pregnant women, as not being contraindicated during fever, and as well borne by patients with quinine idiosyncrasy.

As an anthelmintic the action is weak. The drug is comparatively harmless in large doses.

## **CALENDULA.**                      *Calendula officinalis*

Synonym—Marigold.

### **CONSTITUENTS—**

Calendula, volatile oil, amorphous bitter principle, gum, sugar.

### **PREPARATIONS—**

**Tinctura Calendulae**, Tincture of Calendula. Dose, from half a dram to one dram.

**Specific Calendula**. Dose, from one to sixty minims.

**Physiological Action**—Through the cerebro-spinal vaso-motor nervous system (Burt's fourth edition *Homeopathic Materia Medica*), *calendula* has one specific action. It induces paralysis in the arterial capillary vessels. Through it the vaso-motor nerves become partially paralyzed and the vessels become loaded with blood. From this increased irritation which attracts a large number of white corpuscles, the adhesive quality of these corpuscles induces adhesive inflammation, as is beautifully shown in lacerated wounds and cuts where calendula is used, producing union by first intention. *Calendula* is best applied in a cerate.

**Therapy**—This agent is used principally for its local influence. Internally it is given to assist its local action, and to prevent suppuration in cases where there is a chronic tendency to such action. It is useful in varicose veins, chronic ulcers, capillary engorgement, and in hepatic and splenic congestion.

As *arnica* is applied to bruises and sprains, this agent is also applicable; and in addition it is of much service applied to **recent wounds**, cuts and **open sores**. It is antiseptic, preventing the formation of pus. It causes the scar, or **cicatrix**, to form without contraction of tissues, and in the simplest possible manner. It hastens the healing of wounds and



ten to twenty minims, and the solid extract in from one-half to two grains. It seen to be a true sedative to the stomach with few undesirable influences. Its best effects are secured when given in conjunction with alkalies in full doses or with mild aperients.

**Therapy**—*Cannabis Indica* is sedative, narcotic, anodyne and, to a limited degree, anti-spasmodic. It acts upon disturbed function of the nervous system.

It is a remedy for **disordered mental action**.

It is a remedy for **disorders of motility**, involuntary, irregular, muscular movements, especially if of a distressing character.

It is a remedy to arrest or control **pain**, often acting advantageously in conjunction with other pain-quieting agents, intensifying, modifying or favorably influencing their action.

It is a remedy for excitable and irritable **hyperaesthetic** conditions of the **genito-urinary organs**, with increased functional activity and uterine disorders.

In many forms of **urinary irritation**, its action is prompt and satisfactory especially, Quincey says, where there are only a few drops passed frequently, constant unsatisfied desire, burning pain and vesical tenesmus.

In the **wakefulness** of old age, in the **restlessness** of nervous exhaustion, and in **melancholia**, it is an important remedy. It is useful in the treatment of **neuralgia** and **hemicrania**. It takes high rank in affections of the brain and nerves of the head, especially if nervous vertigo be present, and in those attacks of hemicrania which occur periodically, very distressing, causing delirium and much prostration. It is especially applicable in **sub-acute inflammation** of the **brain**, in **delirium tremens** and in the hypochondria of the **menopause**.

This remedy has received a great deal of attention in its adaptability to **cerebro-spinal meningitis**, and with varying but encouraging results, especially in the earlier stages of irritation and congestion. It is useful also in **hydrophobia**, and in large doses it is sometimes palliative to the distressing symptoms. Minute doses will cure some cases of **tinnitus aurium**.

It is useful in the distress of **Potts' disease** and hip joint disease and in general rickets. In **epilepsy**, either alone or combined with the bromides, it has been given very extensively for several years.

Dr. Cook of Seattle suffered from **nervous breakdown** with extreme exhaustion; **tremor** on awakening in the morning, with active **functional heart disturbance**. He took five drops of specific *cannabis* three times a day on the tongue, followed by a sip of water. On extreme occasions, he would repeat the dose once in half an hour. Not only was the whole nervous excitability controlled, but the heart was restored to its normal action and the urinary irritability was overcome.

It is of much use in **paralysis agitans**, in relief of the lightning pains of **locomotor ataxia**, and especially in chorea and in general muscular tremblings. In chronic conditions accompanied by persistent pain, it ameliorates the pain.

In **functional disorder** of the **stomach** accompanied by pain, it is an excellent sedative, and in intestinal disorders it is equally applicable. It does not suppress secretions or disarrange the functional operations of the organs.

In aching and painful irritation, or in the passage of **gravel**, it is a most soothing remedy. It is beneficial here also in painful hematuria, whether from cancer or tuberculosis, from profound congestion or nephritis.

It is a soothing tonic to the uterine muscular structure, and in inertia and **subinvolution** it increases muscular power and energy and promotes contraction. It is useful in **menorrhagia** and **metrorrhagia**. It is a valuable sedative adjuvant to combine with the well known uterine tonics in general disorders of the pelvic organs amenable to medical treatment not of a surgical character, especially if the pains are of neuralgic or spasmodic character. It will allay **abnormal sexual appetite**, and will overcome the **hysteria** and emotional excitement which occur in some women at the menstrual period.

In **neuralgic dysmenorrhea** it will occasionally cure patients who have been treated by other methods without results. There are few remedies that will excel it in this disorder, but the remedy must be given continuously, beginning before the expected paroxysm some little time and continued for a time after the paroxysm is relieved.



Externally the bruised herb has been applied to bruised and strained parts, to **rheumatic joints**, and where there was **ecchymosis** or extravasations within or beneath the skin.

Dr. Heinen of Toledo treats **non-malignant abdominal tumors** in women with better results by adding five drops of *capsella* three times a day to the other indicated treatment.

## **CAPSICUM**

## ***Capsicum frutescens***

Synonym—Cayenne pepper.

### **CONSTITUENTS—**

Capsiacin, Capsicin, volatile oil, resin and fixed oil.

### **PREPARATIONS—**

Extractum Capsici Fluidum, Fluid Extract of Capsicum. Dose, from five to sixty minims.

**Oleoresina Capsici**, Oleoresin of Capsicum. Dose, from one to five minims.

**Emplastrum Capsici**, Capsicum plaster.

**Tinctura Capsici**, Tincture of Capsicum. Dose, ten to sixty minims.

**Physiological Action—***Capsicum* is a pure stimulant, both local and general. In large doses it causes vomiting, purging and inflammation of the stomach and bowels, with dizziness, intoxication and feebleness of the nervous power. Locally applied, it is a powerful rubefacient. It produces rapid capillary determination of the blood to the part, and if taken into the stomach it promotes its own absorption and thus continues its further influence through the nerve centers. Belonging as it does to the solanaceae, its influence upon the nerve centers, although insidious and not in all its field of exercise readily distinguishable, is nevertheless active and most important, demanding its classification among the diffusible cerebral stimulants. It produces an increase of tone and a marked and comfortable sensation of warmth in the entire system, and a glow and sensation of increased nerve influence and more active circulation.

The general or systemic influence is better obtained from the tincture or from the hot infusion, while local stomach or intestinal effects follow promptly upon the administration of the powder.

Its influence upon the circulation is more marked in its local than its constitutional or central effects, although it does influence general capillary tone. It increases the action of the heart only in extreme cases and in large doses. It barely increases the pulse beat, although it materially alters its character and it does not influence the appreciable temperature.

**Specific Symptomatology**—It is directly indicated in general enfeebled conditions, with impairment of nerve influence. In general atonic conditions, with relaxation of muscular fiber; in plethoric conditions and lethargic affections, with general impairment of tone, with deficiency of functional force, energy or activity—in these conditions, because of its local and general effects, it is markedly different from other stimulants.

The indications are **marked nervous depression**, tendency to capillary stasis; dry, harsh tongue, with brown coating; scanty and glutinous buccal secretion, tendency to tympanitic distension, cool extremities and gastric uneasiness. Furthermore with quinine in **malarial troubles**, with small doses of hydrochloric acid, excellent results have been obtained in **rheumatism** of malarial origin, coming on periodically.

**Therapy**—Its influence upon the nervous system is shown by the fact that in **general paresis**, and in some cases of **paralysis**, local and general of central origin, it has rapidly promoted cures without the use of other agents. In one case after passive cerebral congestion, it was given in strong infusion, and the tincture applied to the paralyzed arm and muscles, and restoration of nerve influence followed in a few days with a generally improved condition of the nervous system.

It certainly deserves a more extended use in these cases, because of the possibility of its being pushed to the extreme without danger of disturbance of function or structure, or impairment or derangement of any organ. It is a harmless agent, however used; if concentrated, local irritation should be avoided.

It has long been combined with tonics, stimulants and general restoratives in seriously impaired nerve tone of the **dipsomaniac**, with results which were ascribed to other agents used. It has an influence in these cases which resembles that of strychnine, and yet is quite unlike it although fully as important.

In **delirium tremens** it produces a sedative influence, which results in quiet, rest, and frequently in deep sleep.

In these cases it is best in hot infusion combined with warm beef-tea or other hot nutritious liquid food. If its use be continued it will replace the alcohol, and in its satisfaction of the unnatural demands of the stomach, will enable the patient, with proper adjuvants, to permanently overcome the taste for liquor. It must be given in conjunction with persistent and concentrated nutrition, and may be combined with hydrastine or strychnine or other nerve stimulants and tonics.

It is also of much service in the treatment of the **opium** and morphine **habits**, and also that of cocaine. It must be pushed to the extreme limit and any local irritant influence avoided.

In **languid** and **enfeebled** states of the **stomach**, with inactivity of the peptic and other glands, whatever the cause, it is an immediate and direct stimulant. In **atonic dyspepsia** and flatulent colic, in atonic inactivity of the liver and other glandular organs which have a part in the stomach and intestinal digestion, its influence is immediate and most important.

It is a common ingredient of pills and laxative granules, and it certainly improves the capillary circulation and nerve tone of the entire intestinal tract.

In the stage of collapse of **prostrating diarrheas** and of exhausting fevers and in **cholera**, no agent is more efficient. It is useful in yellow fever, in typhus and in some cases of typhoid where there are great relaxation and muscular weakness, where there are sluggishness of the nervous system, torpor and insensibility, low **muttering delirium** and tendency to coma.

In relaxed and **enfeebled** conditions of the **pharynx** and post-nasal membranes, in engorged sore throats not always accompanied with active inflammatory symptoms, it will sometimes cure when other agents have signally failed. This is especially true if there be a granular condition, with dark colored membranes, or if there be a purple or discolored hue to the mucous membranes, common in some long continued sore throats. It is a valuable adjuvant in the treatment of **diphtheria** and in **phlegmonous tonsillitis**, with sluggish circulation, and also in the sore throat of scarlet fever. In these cases it may be used as a gargle and taken internally also. A most serviceable general gargle is made by combining in strong



infusion, *capsicum* and *white-oak bark—quercus alba*—and adding to it an active antiseptic, as boric acid or *echinacea*. This can be given for sore throats when no opportunity for specific diagnosis is afforded.

In its general stimulant effect this agent is a valuable one in combination with quinine in intermittents, and also when the latter agent is given as a tonic and restorative. They act most harmoniously in conjunction, and the influence of the quinine is greatly intensified. It is safe to say that one grain of *capsicum*, combined with three grains of quinine, will produce better **antiperiodic** effects than ten grains of quinine would accomplish uncombined in extreme cases of ague, especially if accompanied with general torpor and inactivity of the liver and of the nervous system, as in **malignant intermittents** and pernicious fever.

The old **Thompsonian No. 6** is made by combining *myrrh* two ounces, *capsicum* half an ounce, and dilute alcohol two pints. Of this, from five drops to a dram may be given at a dose, and it produces a most profoundly stimulating influence. It was the main dependence of Samuel Thompson.

The old antispasmodic combination known as the **Compound Tincture of Lobelia and Capsicum**, unfailing with many of the old doctors as an antispasmodic and general relaxant, is made of *lobelia*, *capsicum* and *skunk cabbage* root two ounces, alcohol two pints. It may be made extemporaneously by combining equal parts of the tinctures of the remedies. It is given in from ten drops to one dram, and was relied upon in all **spasmodic affections**, including puerperal eclampsia and tetanus.

Capsicum is advised in chronic **parenchymatous nephritis**, in pyelonephritis and in pyelitis. Also in **spermatorrhea**, with general relaxation of muscular fiber and in impotence. It is an aphrodisiac of some power. It may be combined with phosphorus or *nux vomica* in the treatment of **impotency**. It is eliminated from the system through the medium of the kidneys, which it stimulates to increased action. It may produce urinary irritation and tenesmus.

It is used somewhat externally in the form of plasters, embrocations or in liniments, but it is rather slow in its action upon the skin and is replaced by more active agents. It is a valuable agent, however, in the treatment of chilblains, exceeding other better known remedies.

## **PAPAYA.**

## ***Carica papaya.***

Synonyms—Papaw, Pawpaw, Melon-tree.

**Part Employed**—An active principle obtained from the juice of the unripe fruit.

### **CONSTITUENTS—**

The active principle has been variously named **papain**, **papaotin**, **papoid** or **caroid**. It is precipitated by alcohol, is a nitrogenous principle approximating in character a true albuminoid, and is associated with vegetable peptones and a milk-curdling ferment.

**Description and Administration**—It is a powder of cream-white color, almost odorless and with but little taste. It is easily soluble in water and also in glycerine. Dose, from one to three grains. A larger dose may be given where immediate effects are desired, but is seldom necessary. It is sometimes advisable to repeat the dose in from one to two hours.

The natives have long had a custom of wrapping fresh meat in the leaves of the *pawpaw*, claiming that it prevented decomposition, softening it and materially assisting its digestion. They also applied the juice to open and offensive wounds, to cleanse them and promote healing.

**Therapy**—The indications for the use of papoid in treating digestive disorders may be summarized somewhat as follows:

Actual and relative deficiency of the gastric juice or its constituents. **(a)** Diminished secretion of gastric juice as a whole; apepsia, anemia and deficient blood supply; wasting diseases.

**(b)** Diminished proportion of pepsin; atonic dyspepsia; atrophy of gastric tubules.

**(c)** Diminution of hydrochloric acid—achlorhydria; carcinoma.

**(d)** Relative deficiency of gastric juice; overfeeding.

In gastric catarrh.

**(a)** Where there is tenacious mucus to be removed, thus enabling the food to come in contact with the mucous membrane.

**(b)** Where there is impaired digestion.

In excessive secretion of acid, to prevent duodenal dyspepsia.

In gastralgia, irritable stomach, nausea or vomiting.

In intestinal disorders.

**(a)** In constipation due to indigestion; in diarrhea, as a sedative.

**(b)** In intestinal worms. (This claim the writer has not personally verified, but as the intestinal mucus which shields the worms is removed by papoid, it is easily understood that their destruction would naturally result, or would be more readily accomplished after its administration.) Hutchinson treated tapeworm successfully with five grains of the dried juice twice daily.

In infectious disorders of the intestinal tract.

**(a)** Where there is abnormal fermentation, by its antiseptic action, which may be heightened by combination.

**(b)** Where there are foreign substances present, its detergent effect may be utilized in clearing these out from the intestinal canal by their digestion.

In infantile indigestion. Here papoid not only readily peptonizes cow's milk, but the resulting curds are also rendered soft and flocculent, resembling those of breast milk.

In case of obstruction of the esophagus by the impaction of a piece of meat or gristle, a paste of papoid and water produces softening in a short time.

Nearly all of the above statements have been confirmed in the experience of the writer during ten or twelve years' constant use of the agent, alternated with, but seldom in conjunction with the animal ferment.

Where papoid or any form of *pawpaw* is used as a digestive agent, there may be observed an increase in the amount of uric acid when that substance is deficient, and if oxalates are present they are diminished.

It is a reliable remedy for **general distress** or **pain** in the **stomach** and bowels during the process of digestion. It can be prescribed almost without discrimination in these cases, and the results are in some cases surprising. It may be given during the meal, and pain not occur for an hour. At that time, its influence being probably spent, another dose will continue the effects of the first. Its effects become permanent usually in acute or subacute cases after a few days, when it may be discontinued.

It is not a remedy for pain occurring before meals or after the food is

digested, or for gastric pain occurring without regard to the taking of food—continuous pain and distress—since these pains are either neuralgic or organic in character. The agent is specifically one for functional disorder. It is a most valuable agent in **catarrh** of the **stomach** and in the **digestive failure** accompanying continued fevers. It stimulates the stomach in the beginning of convalescence, and in some cases increases the appetite and promotes absorption of the digested pabulum.

It is serviceable in the digestive **disorders of pregnancy**, stimulating appropriation and assimilation. In those cases where the digestion is seriously interfered with during the last three months of pregnancy, it being almost impossible, because of the great pain induced, for the patient to take any food into the stomach, the condition will be entirely relieved by this agent within a few days, the patient being enabled to eat large meals of meat without discomfort and with satisfaction.

The agent is a **solvent of fibrin**, and has been used to **dissolve false membranes**, old hardened tissue, warts, and tumors, and has been satisfactorily applied to **epithelioma**.

Mortimer Granville reports several cases of **cancer** of the **stomach** treated very satisfactorily with this agent. In **diphtheria** the powder serves a most useful purpose in dissolving and permitting the removal of the densest exudate, which in some cases covers the pharynx and naso-pharynx, and occludes the nares. Good results have been reported by Jacobi, Hubert and others, and have come under our own observation. Kota and Asche are reported in the *Prescription* as having observed more than a hundred cases treated with success by this method.

Empirically it has been used in a few cases of **nephritic colic** with the most marked results. It will diminish the formation of the oxalates, although in cases where tried there has been an increase in uric acid.

## **PETROSELINUM.**                    *Carum petroselinum.*

Synonym—Parsley.

### **CONSTITUENTS—**

Apiin, apiol, volatile oil, crystallizable and fatty matter.

**Apiol**—This is a yellowish, oily liquid, not volatile, heavier than water, odor peculiar and distinct from that of the plant, taste acrid,

pungent. Dose, from five to ten drops.

### **Preparations—**

**Infusum Petroselini.** Infusion of Parsley. Dose, from two to four ounces.

**Therapy—**An infusion of *parsley* is beneficial when, with **nephritis** or cystitis, the specific gravity of the urine is high, and the urination painful and irritating to the mucous membranes. It is useful in **gonorrhoea** and strangury, with great irritation of the parts, with heat, or a scalding sensation on passage of urine, and can be given during the inflammatory stage. It has also been given in dropsy with good results.

Apiol is a specific in **amenorrhoea**. Five or six minims in a capsule, three times daily, for six or eight days before the menstrual epoch will restore the flow in many stubborn cases. It has no marked abortive influence. In **persistent dysmenorrhoea** it has cured many cases intractable to other agents.

Active anti-periodic properties have been ascribed to apiol. It is a nerve stimulant. It controls excessive night sweats, either from phthisis, or following protracted malarial disease.

## **CASCARA AMARGA.**

**Cascara Amarga**, sometimes known as Honduras Bark, is advised in syphilis as an active alterative. The line of its action is where there is chronic skin affection or where the pustular variety of the syphiloderm prevails, the conditions being induced by debility, thus needing a specific tonic influence. It soothes the stomach, overcomes sensitiveness or ready irritability of this organ, increases the appetite, and improves general tonicity.

### **SENNA.**

***Cassia acutifolia.***

Synonym—Alexandria Senna.

### **CONSTITUENTS—**

Cathartic acid, Sennacrol, sennapicrin, chrysophan, phaeoretin, cathartomannit, mucilage.

## PREPARATIONS—

**Confectio Sennae**, Confection of Senna. Dose, one to two drams.

**Extractum Sennae Fluidum**, Fluid Extract of Senna. Dose, half to one dram.

**Infusum Sennae Compositum**, Compound Infusion of Senna. Dose, one to three ounces.

**Pulvis Glycyrrhizae Compositus**, Powder of Liquorice. Dose, twenty to sixty grains.

**Pulvis Jalapae Compositus**, Compound Powder of Jalap. ( A. D.) Beach's Antibilious Physic. Dose, one dram.

**Specific Medicine Senna**. Dose, from one to thirty minims.

**Therapy**—*Senna* is an efficient remedy, mild, kindly, certain and uniform in its action. It is a constituent of the larger number of the proprietary laxative or cathartic compounds, syrups, cordials or elixirs.

It is used in all cases of **temporary constipation**, however induced. An infusion of the leaves is not unpalatable and is promptly active. It produces normal evacuations of the bowels and if used carefully there is but little griping. It is used after surgical operations, after confinement, in the constipation of the feeble, and, in many cases of inactive bowels, among infants and children. It is not used where a powerful derivative is needed, or where active cholagogue or hydragogue influence is demanded. It has a narrow but important sphere.

**Co-operatives**—In combination with *ginger*, *capsicum* or *black pepper*, it is useful in atonic conditions with inactivity of the bowels. With magnesium sulphate, or potassium bitartrate, it will induce more of a hydragogue effect. In combination with *leptandra* it acts more specifically upon the liver; with *jalap*, and *ginger* it was long known as **antibilious physic** and was given whenever “biliousness” was diagnosed; with *rhubarb* and *peppermint* it is a tonic, laxative and carminative of greatly improved value. It is the active constituent of the well known and popular, **Compound liquorice** powder.

The composition of this powder is, as follows:

Senna and liquorice in fine powder, of each **two ounces**;  
fennel fruit, sublimed sulphur, of each **one ounce**;  
refined sugar, **six ounces**.

Mix thoroughly. Dose, from one-fourth to one dram in water.

The following is an excellent, simple laxative:

A strong, infusion of senna leaves is made and strained. In the clear liquid good French prunes are stewed until thoroughly cooked. One of these three or four times daily will overcome many cases of constipation, especially when the tendency is only temporary, or due perhaps to other conditions, temporary in their character, as during tedious convalescence. Especially useful in pregnancy.

Figs and senna leaves, chopped together, finely, have been long in use for laxative purposes.

**CASTANEA.**                      *Castanea vesca.*

Synonym—Chestnut.

**Therapy**—This agent is lauded as a specific for **whooping-cough**. The evidence adduced would lead to the conclusion that certain conditions not yet determined, must be present if it exercises curative powers. In certain experiments it has apparently ameliorated the symptoms promptly. In some cases there was a prompt arrest of the disease. In other cases no results have been apparent. It should receive thorough investigation to determine the specific conditions in which it will exercise a curative influence.

It should be given in full doses every two or three hours. If it proves curative in whooping-cough it should be found of service in other bronchial coughs with free secretion.

**CAULOPHYLLUM.**                      *Caulophyllum thalictroides.*

Synonym—Blue Cohosh.

**CONSTITUENTS**—

Caulophyllin, leontin, two resins, gum, tannin.

**PREPARATIONS**—

**Caulophyllin.** Dose, from one-fourth to one grain.

**Extractum Caulophyllum Fluidum,** Fluid Extract of Caulo-phyllum.

Dose, five to ten Minims.

**Specific Medicine Caulophyllum.** Dose, from one to ten minims.

It is often necessary to continue this remedy, in whatever form given, over a considerable period of time in order to obtain its best results.

**Specific Symptomatology**—Felter and Lloyd give the following indications: Uterine pain, with fullness, weight and pain in the legs-, fullness of tissues, as if congested; debility of the nervous system, with impaired muscular power; spasmodic muscular pains, articular pain, rheumatic pains of asthenic plethora, epigastric and umbilical colicky pains, dull frontal headache, great thirst; as an oxytocic; to relieve false pains and uterine irritability; sexual debility, with excitability; spasmodic uterine contractions, dysmenorrhea, irregular menstruation, cramp-like pains in the stomach and bowels after eating, pain in the toes and fingers not due to tissue changes.

**Therapy**—In **chronic uterine** disorders, in broken down constitutions with various reflex symptoms, the remedy is a specific. In the **amenorrhea** of young women, at the commencement of the menstrual period, it may be given with confidence. In **painful menstruation** it has an established reputation.

Dr. Hewitt of Chicago learned when a boy the use of *caulophyllum* in **scarlet fever**. When he became a physician, he put that knowledge to test very many times and always with success. He has positive confidence in this remedy, having seen such uniformly good results.

From the end of the sixth month to the close of pregnancy is a period when many distressing symptoms are manifested, which may, in a measure, be relieved by *caulophyllum*.

The growth of the fetus has been compared to an apple, which, when fully ripened, falls from the tree. The effect of *caulophyllum* is to **prolong gestation** till the fetus is fully developed, labor being a physiological process at full term, and not pathological, therefore less protracted, less painful, and less liable to accidents.

Many writers confirm the opinion that *caulophyllum* or caulophillin are excellent remedies in **labor**, contributing to the relaxation of a **rigid os**, increasing the strength of the pains. It will also assist materially in controlling an **abortion**. Using it in conjunction with *viburnum*, this influence will be enhanced.



This remedy as a **partus preparator** is equal in some cases to *cimicifuga*, and comparable with *viburnum* and *helonias*. It prevents **premature delivery** by a superior tonicity, which it induces in all the reproductive organs. It has caused many cases to overrun their time a few days, and yet easy labors and excellent recoveries have followed. It is a satisfactory remedy where there is a habit of having severe after pains, or where there are false labor pains, not productive of good, or where subsequent to the labor there are hourglass or other undue spasmodic uterine contractions.

It is a beneficial remedy in **hysteria**, and where there is constant **ovarian irritation**, or pain in the mammary glands, accompanied with general irritation; also in chronic disease of the uterus and ovaries or of the cervix. Also where there is cramp-like pains during **menstruation** or pain and soreness of the uterus, attributed to rheumatism. It is of much benefit in subinvolution.

*Caulophyllum*, although chiefly known as a remedy for the diseases peculiar to women, has been employed with advantage as a sedative and to control congestion, in **bronchitis**, pneumonitis and **whooping-cough**.

In **deficient labor pains**, *caulophyllum* is generally a reliable remedy.

A sufficient dose of the remedy may be given every ten minutes, till the pains become regular and efficient.

## **CEANOTHUS.                      *Ceanothus americanus.***

Synonyms—Red Root, New Jersey Tea.

### **PREPARATIONS—**

**Extractum Ceanothi Fluidum**, Fluid Extract of Ceanothus. Dose, from one-fourth to one dram.

**Specific Medicine Ceanothus**. Dose, from one-half minim to five minims every two to four hours.

**Physiological Action**—Astringent, stimulant tonic to mucous surfaces, and expectorant. It is to a certain extent mildly antiseptic. It is an alterative of much power in its influence over the portal circulation.

**Specific Symptomatology**—It has a specific influence upon the portal circle, influencing the circulation. In lymphatic patients, with sluggish circulation and inactivity of the liver of a chronic nature, with doughy-



applied to **ulcers** of the **os uteri**. It gives good results as a wash in the treatment of **gonorrhoea**, **gleet**, **leucorrhoea**, and ulcers and old sores. He believes the berries should be gathered just before they are ripe, to obtain the best action.

## **IPECAC.**

## ***Cephaelis ipecacuanha.***

Synonym—Ipecacuanha.

### **CONSTITUENTS—**

Emetine., the emetic principle existing in the stem, leaves and root, cholin and cephaeline in the root, ipecacuanhic acid, and a nauseating ethereal oil.

### **PREPARATIONS—**

**Extractum Ipecac Fluidum**, Fluid Extract of Ipecac; dose, from one to forty minims.

**Syrupus Ipecac**, Syrup of Ipecac; dose, from ten to sixty minims.

**Pulv. Ipecac et Opii**, Powder of Ipecac and Opium, composed of Ipecac and opium of each ten parts, Sugar of Milk, eighty parts; dose, from three to ten grains.

**Specific Medicine Ipecac**; dose, for gastric, intestinal or bronchial irritation, five drops in four ounces of water; a tablespoonful every hour. As an emetic, from five to twenty minims in hot water.

**Alcresta Ipecac** is prepared by the action of Lloyd's reagent on the solution of the alkaloids of *ipecac*. It represents the medicinal properties of the *ipecac*, but will not produce nausea or emesis. It is superior to emetine in its general use because it is not hypodermic. One tablet represents ten grains of the powdered *ipecac*. It may be given in doses of one, two or three tablets three times per day, before meals,

**Physiological Action of Ipecac**, (J. U. Lloyd, Ph.D., LL.D., Ph. M., Western Druggist).—*Ipecacuanha root*, from its first appearance in our materia medica, has been prized as an emetic and anti-dysenteric remedy.

The peculiar effect that the dust of *ipecacuanha* powder exerts upon the respiratory organs of some persons has been noted by early observers. Lewis, in 1761, makes the following statement: "Geoffroy observed that in pulverizing considerable quantities, the finer powder that flies off, unless great care be taken to avoid it, is apt to afflict the operator with difficulty of breathing, spitting of blood and bleeding at the nose, or swelling and

inflammation of the eyes and face, and sometimes of the throat, adding that these symptoms disappear in a few days, usually spontaneously. Poisoning in this manner may be treated by blood-letting and the taking of a decoction of *uva ursi* and extract of *rhatany*; in another more recent instance, relief was afforded by a dose of extract of *quebracho*.”

Powdered *ippecac* applied to the skin produces irritation and redness, followed finally by small isolated pustules, which increase in size to small ulcers.

The powdered *ippecac* in one-sixth of a grain doses is a stomachic tonic, stimulating the salivary and gastric secretions. In doses of ten grains it will act as a nauseating, emetic, but the emesis occurs slowly and is not extreme, persistent nor prostrating like that of *lobelia* or tartar emetic.

In some cases continued repetition of the emetic dose produces a toleration, when the emetic effect ceases, but there is diarrhea—an active cathartic influence, with stools characteristic of this agent. In some children the persistent use of the syrup of *ippecac* will invariably produce diarrhea often persistent and difficult to cure.

The agent is also diaphoretic and actively expectorant.

**Emetine** was first isolated as the emetic principle of *ippecac* in 1867. In 1894 the other alkaloid cephaeline was discovered. In 1912 it was determined that emetine destroyed the ameba which has been known to be the cause of **epidemic amebic dysentery**, of a form of **hepatitis**, and also as the cause of **pyorrhoea**, commonly called Rigg's disease, and other conditions of less importance. This important discovery has placed this alkaloid (like the hypodermic use of *lobelia* has placed that important remedy) in a most conspicuous position, making it at once a specific for the conditions named. *Alcresta ippecac* is exercising the same specific influence.

Dr. H. Barlow, Chief Surgeon to the Hospital at Cuyamel, Honduras, now using these preparations, says: “My impressions are that while *Alcresta ippecac* cannot replace emetine in cases which can be seen daily, or in severe cases, it has certain uses in which it is superior to emetine. These are: 1. Cases in which there is an insuperable objection to hypodermic injections; 2. Cases living at such a distance or too poor to make daily visits to a physician; 3. In the after treatment of cases which have been relieved by the treatment of emetine; 4. In the treatment of carriers; and

5. In the treatment of cases of Craigiasis, which indeed cannot be treated so well with emetine alone as with emetine combined with some preparation of ipecac which can be administered orally.”

The endameba which is the specific cause of **Pyorrhoea Alveolaris** is almost invariably destroyed by *Alcresta Ipecac*. Bass and Johns found that the germ would disappear from all lesions in from one to three days in ninety per cent of the cases, and in six days from ninety-nine per cent of the cases. They found it as efficient in most cases as emetine. The peculiar combination involved in this substance prevents the alkaloids from being dissolved in acid or neutral solutions. Thus it passes unchanged through the stomach without inducing nausea in any form. The alkaloids are permitted full activity in the intestinal tract. The local influence of this agent upon the endameba in the mouth is very prompt and satisfactory.

In extreme inactive conditions of the stomach and bowels, with or without pain—the inactivity shown by a broad, pallid tongue, covered very thickly with a dirty white coat, which finally becomes sleek on the top, increasing from tip to base in dirtiness, to a brown color—full emetic doses of the common forms of *ipecac* persisted in for a short time will quickly correct almost the entire train of symptoms.

**Specific Symptomatology**—Persistent irritation in mucous membranes, with deficient secretion, demand *ipecac* in small doses.

Persistent nausea and vomiting, with pale, relaxed membranes, whitecoated, broad tongue, will often yield most readily to minute doses ( $1/10$  of a drop) frequently repeated.

Bronchial gastric or **intestinal irritations** are benefited by its use. It is indicated also in **croup**, with **sudden dyspnea** and threatening suffocation, extreme secretion, without ability to dislodge. Half teaspoonful may be given.

**Therapy**—For its emetic influence ipecac is one of the most satisfactory of the emetics. When there is **undigested** food in the stomach, causing irritation, when mild poisons are taken, when emesis is demanded to relieve **sick headache**, this agent is used in preference to others. If promptness of action be demanded the full dose should be given in a bowl of warm water—not hot—or a single full dose of *lobelia* may be given

with it. This produces immediate emesis without prostration. If powerful **poisons** are taken, and active emesis is demanded, the sulphate of zinc or **lobelia** in persistent doses, or some other emetic more immediate in its influence, is usually used, although the writer has always been able to adjust **ippecac** with such adjuvants as warm water, mustard, or tickling of the throat, to every case. In cases where **foreign bodies** are **lodged** in the **esophagus**, and in the threatened suffocation of **mucous croup**, or in membranous croup, **ippecac** is the remedy, especially in childhood. No emetic more harsh should be used with children. In the developing stage of **malarial fevers** it was once the practice to produce active diaphoresis by a hot pediluvium and hot drinks, the patient being wrapped in warm blankets, and to produce profound emesis with **ippecac**. Often the most desirable results were obtained, and in some cases where an acute cold had been contracted or where there was a severe chill, in strong, previously healthy patients, the disease, was suddenly terminated by this course. The author has had this experience. In the **bronchitis** of childhood occurring often suddenly, with a dry, hoarse, stridulous or croupal cough, without secretion, ten drops of the syrup of **ippecac** given every half hour, hour, or two hours until nausea is induced, will sometimes abort the condition in a few hours, the influence of the agent dissipating the conditions essential to the progress of the disease. This form of bronchitis is common in furnace-heated houses, and in close, hot, unventilated apartments, in the beginning of the winter when the furnace fire is first started, and in the spring.

**Ippecac** in small doses given in conjunction or in alternation with **aconite** or **bryonia** or **belladonna**, is of great service in **pneumonia**, especially that of childhood. Five drops in a half glass of water, a teaspoonful every hour, may be given with the best of results. In **acute bronchitis** it may be prescribed in the same manner.

**Ippecac** is of value also in the after stages of **pneumonia**. In the stage of active inflammation it is useful as stated, but is not given in the same form as in the later stages. It is an excellent remedy to assist in clearing up **hepatization** and in restoring normal conditions in the lung cells. The author, when the temperature has subsided, gives one-fourth to one-half a grain of powdered **ippecac** to an adult, every two or three hours in a capsule, with two grains of the bisulphate of quinine. The tonic influence of the quinine assists the influence of the **ippecac**.

**Ippecac** is of value in **coughs** when there is a deficient secretion, whatever the cause. Emetic doses are not desirable if the agent is to be continued

for a length of time.

It has been beneficial in spasmodic **asthma**, whooping cough and in **laryngismus** stridulus.

This agent is advised in irritation of the bowels resulting in acute inflammation. In small doses it is given with good results in cholera infantum and in diarrheas, but is of no benefit beyond the acute stage.

While *ippecac* has been known as a cure for certain forms of **dysentery** for more than a century, the use of its active principle emetine as a cure for **amebic dysentery** is just now coming into prominence. Our writers have always advised *ippecac* for this disease, but not all have given it in sufficiently large doses. Administered now in the form of *alcresta ippecac* or emetine hypodermically, the cures are prompt and highly satisfactory. In fact, the remedy is already being classed with quinine for malaria, and antitoxin for diphtheria, as one of the great specifics.

If the **dysenteric tenesmus** is relieved with prompt doses of *gelsemium*—and we have a no more efficient remedy in the materia medica for this condition than that agent—the beneficial effects of the *ippecac* upon the local inflammatory processes will be more plainly marked.

Recent observers in the general hospital in Calcutta, India, have found that large doses of *ippecac* have most beneficial effects in **amebic hepatitis** and **hepatic abscess**. If the diagnosis be made before the formation of pus, this is prevented by the agent. It should be given when the patient suffers with a general feeling of lassitude, foul tongue, pain in the right shoulder and in the right hypochondrium. The liver is enlarged and tender on pressure. There is marked leukocytosis but the polynuclear increase is not great. *Ipecac* is given in these cases in single large doses, usually from twenty to thirty grains, given at least two hours after eating and best taken at bedtime. Occasionally this dose is given twice daily in capsules.

Frazier claims that *ippecac* in large doses is an excellent addition to the treatment of **typhoid fever**. In five cases where he used it, the temperature dropped suddenly so that within four days it was normal. In the earlier stages he gave thirty grains on the first day; twenty-five the next; twenty the next and so on down until ten. He gave small doses of *opium* to keep the patient from vomiting. The results were pronounced. This course is worth trying.

The successful use of this common remedy, in the treatment of **epilepsy** has been reported, since our first edition. Persistent cases have been treated, with ten minim doses of a strong fluid extract, increased to forty minims. This has been persisted in according to the susceptibility of the patient. The action of emetine or *alcresta ipecac* should be at once determined for the above conditions.

In **hemorrhages** *Ipecac* has exercised a satisfactory influence. Its action upon the circulation is quite prompt. It is given by some physicians in small doses for this purpose, and by others in full doses to prompt emesis. It has controlled postpartum hemorrhage, menorrhagia, metrorrhagia, epistaxis and hemoptysis, and will exercise a beneficial influence in hematuria.

## **HELONIAS**

## ***Chamaelirium luteum***

Synonyms—*Chamaelirium Luteum* Blazing Star, Unicorn Root.

### **CONSTITUENTS—**

Chamaelirin, fatty acid.

### **PREPARATIONS—**

**Extractum Heloniatis Fluidum**, Fluid Extract of Helonias. Dose, from five to thirty minims.

**Specific Medicine Helonias**. Dose, from one to twenty minims.  
**Helonin**. Dose, from two to five grains.

**Physiological Action—***Helonias* in large doses is a cardiac poison. In medicinal doses it is emetic, tonic, diuretic, vermifuge. Cattle are killed by feeding on it and the decoction will kill insects.

**Specific Symptomatology—**The most direct indication for the use of this agent is a dragging sensation in the extreme lower abdomen, and inclination to pull up, to hold up, or support the abdominal pelvic contents. In women suffering from pelvic engorgement and uterine prolapsus, with disordered menstruation, one drop of the tincture or fluid extract every two or three hours will relieve that sensation permanently.

**Therapy—**Homeopaths believe *helonias* to be particularly suitable for female disorders, where there is feeble constitution, where the nervous system is weakened and the patient is easily fatigued. It is restorative, promotes nutrition, promotes secretion of healthy fluids. It is peculiarly



tonic.

Where **disorders** of the **stomach** are present with uterine or kidney disease, it should exercise a direct action. It cures **amenorrhea** and **menorrhagia** which depend on uterine atony. Where malpositions occur from weakness—loss of tone—where there is dragging sensation constantly present in the lower abdomen, or at the menstrual epoch, it is directly indicated. For the case of the worn mother who watches over the care of her charge, as well as for the young girl budding into womanhood, carefully and properly selected, this remedy will certainly give satisfactory results.

It is a pure and active restorative; is nutritious and promotes secretion; it promotes normal activity of the glandular organs. When glandular action is prevented, from the influence of uterine or renal disease, it is especially serviceable. The underlying indication is uterine atony.

It will cure **amenorrhea**, **menorrhagia**, some cases of **leucorrhea**, and the **dragging down sensations** in the lower abdomen, which results from simple displacements. It will also relieve erratic pains of stomach and gastric disorders which depend upon or accompany this condition.

Wherever there is a tendency to **uterine displacements**, it should be used. If these disorders are present with **threatened abortion**, the remedy should be combined with *viburnum*, and both be given in full doses to prevent that condition. It, however, works more perfectly in combination with *aletris farinosa* and *cimicifuga* in **atonic** conditions, while *caulophyllum* and *viburnum* act best where **irritable** conditions are present. The remedy will also control hemorrhages of a passive character.

In addition, it is a general tonic improving the character of all the organs in their functional operations, and especially improving the tone of the **digestive apparatus**. It is a liver remedy of rare value, in many cases accomplishing most satisfactory results when there is deficient or perverted action.

A number of our physicians have spoken most highly of its action in **albuminuria**. It will be found valuable in those cases where the cause is some fault of the liver, as deficient action of that organ, and not due to heart or circulatory faults.

A number of excellent observers have confirmed this statement. Dr. S. B.

Munn of Connecticut used it for many years with very satisfactory results. From another observation its influence would be improved in certain cases by the addition of *phytolacca* and where there is marked toxemia by *echinacea*.

If the sensation of dragging and weight occurs in the male from cystic disorder, the relief is fully as satisfactory. The general action of the agent in these cases is that of a **tonic** to the **genito-urinary** apparatus. It quickly overcomes the phosphatic diathesis, and in urinary irritability is serviceable, especially if from atonic causes. It is useful in impotence, and its properties as an aphrodisiac have been often noted.

## **CHELIDONIUM.**                      *Chelidonium majus.*

Synonyms—Great Celandine, Garden Celandine, Tetterwort.

### **CONSTITUENTS—**

A bitter principle, and the alkaloids chelidonine, Sanguinarine, protopine and chelerythrine. It also contains chelidonic and chelidoninic acids and chlorophyll.

### **PREPARATIONS—**

**Extractum Chelidonium;** Extract of Chelidonium; Extractum Chelidonium fluidum, expressed juice of Chelidonium; succus Chelidonium. Dose, ten to twenty drops.

**Specific Medicine Chelidonium.** Dose, from one-tenth to ten minims.

**Physiological Action—**Drastic cathartic and violent local irritant, alterative, diuretic, diaphoretic and expectorant.

This agent stimulates the chylopoietic system, favorably influencing all of those organs which are supplied by the solar plexus of the great sympathetic.

**Specific Symptomatology—**The conditions to which *chelidonium* are especially applicable are found in fully developed abdominal plethora, inefficient functional action of the glandular organs of the abdominal cavity, and imperfect, sluggish and deficient circulation of the tissues, glands and organs of this cavity.

This agent operates in harmony with *leptandra*, *podophyllum*, *iris versicolor*, *chionanthus* and sodium phosphate, in the three following important conditions: Diminished secretion of bile, evidenced by grayish, clay-colored, or very light yellow stools, which will usually float. There may be no evidences of absorption of bile into the blood—no jaundice; or there may be absorption of the bile and jaundice, with its whole train of symptoms, with dark green and fetid stools and dolic; or there may be the above grayish, clay-colored stools and jaundice, with bile in the urine, which is dark yellow or red, very acid, charged with an excess of uric acid crystals.

**Therapy—Sluggishness of the portal circulation.** Defective liver circulation is the cause of a long train of remote manifestations, among which are slow pulse, frequent palpitations, a feeling of weight, stiffness and swellings of the hands, feet and limbs, cold extremities, pallid and doughy skin, local and general, edema, dull pain or constant aching in the limbs and muscles, aching in the front head and occiput, vertigo, weariness, irritability, inactivity, irregularity of the bowels—constipation, followed by diarrhea, erratic colicky pains, sallowness, jaundice and other disorders. *Chelidonium* is an excellent remedy in a case with these manifestations.

In disease of the spleen, it relieves congestion and reduces **splenic hypertrophy**, acting in harmony with *chionanthus* and *grindelia squarrosa*. Its action upon the pancreatic glands is satisfactory, relieving congestion and engorgement and irritation, and inducing a better circulation. It will be found an excellent remedy in combination with helonias in the treatment of **diabetes mellitus**.

This agent was used thirty years ago with eminent success in the treatment of **biliary calculi**. It is now in use for that purpose among many physicians, who consider it superior to any other agent known in preventing their formation.

Its influence upon the functional activity of the liver induces a thinner and more profuse secretion of the bile, and it is thus useful in promoting the expulsion of gall stones. It is available also in **simple biliousness**, **hepatic congestion**, acute or sub-acute inflammation of the liver, **jaundice**, due to catarrhal conditions of the ducts, or when dropsy depends upon hepatic trouble. When **migraine** or **supraorbital neuralgia** depend upon hepatic difficulties this remedy is indicated.

A patient suffering from a headache which began in the occiput before rising in the morning; poor appetite; cold hands and feet; tongue large, thick, pasty, with a grayish white coat; skin of a dusky hue, was materially benefited by *chelidonium*, five drops of the fluid extract every two hours.

Some of the old writers believe that this agent is superior to *arnica* or *hamamelis*, as an external application to **bruises and sprains**. It prevents the development of local inflammation from traumatic causes.

The specific use externally, is in the application of the juice to **warts, corns and epitheliomata**, for which it has been widely used, and much evidence accumulated in its favor. In these conditions and in the treatment also of **urticaria, eczema** and itching eruptions, its careful application, persisted in, cures within a short time.

In the treatment of **cancer**, Denissenko directs that from twenty-two to seventy-five grains of the extract shall be taken internally, dissolved in distilled water or *peppermint water*, every day throughout the treatment. Into the substance of the tumor, as close as possible to the boundary between it and the healthy tissue, he throws a number of injections of from two to four drops of a mixture of equal weights of the extract, glycerine and distilled water, not exceeding a syringeful in all. If the tumor is ulcerated, he paints its surface twice a day with a mixture of one or two parts of the extract and one part of glycerine. The painting of the ulcerated surfaces gives rise to a light and transitory burning. In all instances, after the injections, especially after the first one., there was a burning pain at the site of the operation: the patient felt weak, there was a more or less severe chill, and then the temperature rose to between 100 and 102 degrees. These symptoms disappeared on the following day.

As a result of the treatment the sallow hue of the skin disappeared and softening of the tumor set in. After from three to five days there formed at the points of injection, fistulous tracts about which the softening process went on with special rapidity. Other investigators have not been as satisfied with its influence in cancers, but it is doubtless of value and deserves further observation. Iron, quinine and other supporting remedies are employed according to the indications.

## **CHENOPODIUM.                      *Chenopodium ambrosioides.***

Synonym—American Wormseed.

The oil of the herb and of the seed is the only preparation of *chenopo-dium* used. It is a thin, colorless, or slightly yellow liquid having a pene. trating camphoraceous odor and a pungent. and somewhat bitter taste.

This is strictly an American product, large quantities of the oil being produced in this country though the foreign demand should establish foreign sources of supply.

**Therapy**—This agent has long been used as a remedy for **worms** but because of an early objection made to its use on the grounds of certain subtle, dangerous properties, it has not come into general use. In sufficient doses of from ten to twenty minims of this oil, it was recommended to expel the round worm. Our own authorities seldom recommended above five minims which was not always sufficient though safer.

A recent report puts this agent in its exact place as an anthelmintic. In the Orient, especially in Singapore and in Sumatra, the *oil of chenopodium* is extensively employed against **hookworm** and other intestinal parasites. More than 100,000 cases of hookworm of both the Old and New World types have been treated with practically no untoward effects, and with greater success than with any remedy heretofore employed.

In Sumatra, it is used also with equal confidence, in the treatment of **roundworm, tapeworm, and whipworm**. Weiss of Kisaran treated 5,000 cases of hookworm with highly satisfactory results. There was one case of nephritis which he thought might have followed it, but the case was quickly controlled. Schuffner and Baermann in Sumatra have treated over 40,000 cases without after effects, and with results superior to those obtained from thymol. They Conclude that the efficiency of this remedy over thymol is as 91 to 83.

**Administration**—The method of the above observers is to give the patient a liquid diet for an evening meal, no breakfast on the following morning. From ten to sixteen minims of the oil is placed on sugar divided into three parts, one part being taken every hour. Two hours after the last dose, a full dose of *castor oil* and a full dose of chloroform is given.

Others give ten minims as a single dose in a capsule, giving it every morning for three days, and on the third day, following it with a

tablespoonful of *castor oil*. In the case of certain well known anthelmintics, oil must be avoided, but better results are obtained with this remedy in getting rid of the worm, after the paralyzing influence of chenopodium. Perhaps more care should be taken in our country to avoid such complications as nephritis and paralysis, but foreign prescribers account the remedy as harmless in the above described doses.

**Toxicity**—In addition to the conditions named above which may be induced are persistent inclination to sleep, great drowsiness, and depression. The agent, if these symptoms appear, should be withheld, and the patient stimulated with strong coffee or other available stimulant, and wakefulness induced, as after opium.

There is little doubt that this will now immediately become the most dependable of our remedies for hookworm, as well as being reliable for other intestinal parasites.

## **CHIMAPHILA. *Chimaphila umbellata.***

Synonym—Pipsissewa.

### **CONSTITUENTS—**

Chimaphilin, arbutin, ericalin, ursone, tannin, sugar, gum, resin.

### **PREPARATIONS—**

**Extractum Chimaphilae Fluidum**, Fluid Extract of Chimaphila.  
Dose, from a half to two drams.

**Specific Medicine Chimaphila**. Dose, from five to sixty minims.

**Syrupus Stillingiae Compositus**, Compound Syrup of Stillingia.  
Dose, from one dram to one ounce.

**Physiological Action**—*Chimaphila* is an alterative, stimulating waste, a tonic giving strength to the body, and a diuretic, removing dropsical accumulations. While it aids in restoring the excretory functions to a normal condition, it tends to remove irritation of the urinary tract and kidneys, lesions of the skin and lymphatic glands, and deterioration of the blood, caused by the presence of waste products, the result of defective catabolism.

**Therapy**—Dr. Fox of New York recommended *chimaphila* in the treatment of **glandular disorders**. In 1905 he presented a very interesting paper to the New York Society on the influence of this agent in the treatment of

**general bubonic inflammation.** He believes the remedy to be very valuable in **leucorrhoea**, and diseases where there is an excessive outpour of mucus. He gave it also when the abdomen seemed to be filled with nodules, when there was diarrhoea or cholera infantum.

He claimed that it will **reduce** the **mammary glands** if taken too long by females, and in males it will reduce the **size of the testicles**. It does not cause derangement of the stomach nor produce free action of the kidneys.

When the glands are large or inflamed either in the acute or chronic form he believes that this remedy is superior to our other glandular remedies, even to *phytolacca*. With it he can determine whether an enlarged gland is simple, or whether a tumor is developing. He gives it in bubo, ostitis, and mastitis with excellent results; also when the glands of the skin are affected.

It can be correctly adjusted to the uric acid diathesis, in **dropsy**, with debility and loss of appetite. Also in cases where there are inflamed and ulcerated cervical **glands**, enlargement of the parotid glands from retained excrementitious products, dropsy after scarlatina and measles, dropsy with debility from any cause, **chronic rheumatism**, skin diseases with enlarged cervical glands in scrofulous subjects, hectic fever with night sweats, enlargement of the mesenteric glands, also where there is an inflamed and swollen prostate gland, with discharge of prostatic fluid, urine thick, ropy, with bloody sediment, itching and pain in the urethra and bladder, strangury, chronic gonorrhoea, chronic nephritis, urethritis with profuse and purulent discharge, obstinate and ill-conditioned ulcers, in latter stages of typhoid fever with deficient excretion, tumors of the mammae supposed to be cancerous, this agent is used.

In dropsy associated with debility and enlarged glands it should be given freely.

In acute rheumatism a warm infusion should be given till it produces perspiration, while hot fomentations of the same should be applied to the swollen and painful joints.

In obstinate skin diseases in scrofulous subjects, the tincture from the fresh leaves should be applied to the diseased skin and taken internally.

## CHIONANTHUS.

## *Chionanthus virginica.*

Synonym—Fringe Tree.

### CONSTITUENTS—

Chionanthin, saponin.

### PREPARATION—

**Specific Medicine Chionanthus.** Dose, ten to twenty minims.

**Specific Symptomatology**—The specific influence of the agent is exerted upon the liver. It is a remedy for hepatic engorgement; jaundice more or less pronounced; pain over the region of the gall bladder; pain in the epigastrium; pain radiating from the navel over the abdomen; soreness in the region of the liver, extending to the umbilicus; enlargement of the liver, determined by percussion; nausea; occasional vomiting; constipation with dry feces; temperature slightly above normal; skin usually yellow. This latter indication—a distinctly yellow skin—has always been my immediate suggestion for *chionanthus* and I have rarely been disappointed.

**Therapy**—It is a cholagogue cathartic in full doses, but its best influence is in **acute congestion** of the **liver** with imperfect discharge of bile, or **catarrh** of the common **bile duct**. We have no agent more certain in its action when indicated. The indications are acute jaundice evidenced by yellowness of the conjunctiva first, subsequently of the skin, with distress in the right hypochondrium, with cramp-like pains in the abdomen.

It overcomes catarrh, liquefies the bile, prevents the formation of calculi, and promotes the discharge of those formed. It is a remedy for chronic forms of liver disease, but its influence is not so plainly apparent, being much slower in its operations. It is not indicated in jaundice from permanent occlusion of the duct, from impacted gall stones or foreign and malignant growths.

**Bilious headaches** resulting from liver faults especially if irregular or periodical are cured by *chionanthus*.

The action of *chionanthus* in the treatment of tobacco habit must be studied. It has an influence in many cases.



It will quickly overcome the **jaundice** of **childhood** and infancy, and especially sure in the jaundice of the pregnant term. It is an excellent remedy for **malarial conditions** with atonicity of the stomach and intestinal apparatus. It can be given during the chill and fever, and it assists greatly in the relief of both. The agent may be pushed to the maximum dose and given with full confidence when indicated, as it is absolutely certain in its action. It is sometimes best given in infusion.

Dr. Fearn claimed to have early made the discovery of the use of *chionanthus* in reducing the quantity of **sugar in the urine**. Patients with no appetite, losing flesh, listless, increasingly anemic with a little sugar in the urine were those to whom he first gave it, ten drops four times a day. Later he used it in severe cases of diabetes mellitus. Dr. A. P. Hauss, of New Albany, Ind., has had many years' experience in the observation of this remedy in the treatment of this disease. He has much confidence in it.

Dr. Halbert of Nashville confirms this influence.

Probably in those cases in which this remedy is beneficial in diabetes there is functional disease of the liver.

Whether the remedy would be equally beneficial in cases in which no liver fault could be diagnosed, might be questionable, and yet Hauss, says that he has never treated a case of diabetes mellitus along the lines indicated that has not yielded to this treatment. He prescribes from ten to fifteen drop doses of *chionanthus*, four times daily. If no febrile condition is present or if there is general atonicity, with nervous depression, he adds from one-half to one drop of *nux vomica*. He has the patient drink from one to two pints of hot water each morning, before breakfast, to which he adds a small teaspoonful of the sulphate of magnesium, or in preference one-half wine glass of French Lick Pluto water in a pint of hot water. This treatment, with proper dietary, he claims, has a rapid effect upon the glycosuria, immediately reducing the specific gravity of the urine.

The agent is beneficial in chronic splenitis, pancreatic disease and disease of the other glandular organs; also in the incipient stages of nephritis. In the line of its symptomatology, it is an exceedingly satisfactory remedy. It influences the stomach in the process of digestion; it exerts a beneficial, stimulating effect upon the entire glandular apparatus.

Prof. Ralph Morrill gives the following as important in the application of this remedy: In the **obstruction** of the **bile ducts**, due to inflammation of the duodenum, this remedy is directly indicated. He gives it as an intestinal antiseptic in **typhoid fever**. He believes its influence is exercised by its stimulating effect upon the flow of the bile. He has had clinical evidence of its undoubted value in many difficulties of the gastro-intestinal tract, which are cured by this important influence. He combines it in some cases of **gastro-intestinal atony**, with *nux vomica* and *podophyllum*, in the following prescription: *Nux vomica*, fifteen drops; *chionanthus*, two and a half drams, *podophyllum*, one and a half drams; elixir of lactated pepsin, sufficient quantity to make four ounces. Of this give one dram three times a day.

In perverted functional action of the liver, resulting in the excretion of an abnormal quantity of uric acid, which interferes with the evolution of proper metabolism present in the formation of urea, and its products, it is a valuable remedy. It is thus of much importance in the treatment of **acute lithemia—toxemia**, from excess of urea or uric acid, and the rheumatic diathesis.

## **CIMICIFUGA.**                      *Cimicifuga racemosa.*

Synonyms—Black Cohosh, Macrotys Racemosa.

### **CONSTITUENTS—**

Macrotin, a resinoid volatile oil, tannic acid, gallic acid, gum, starch, fat, sugar.

### **PREPARATIONS—**

**Extractum Cimicifugae Fluidum**, Fluid Extract of Cimicifuga. Dose, five to thirty minims.

**Tinctura Cimicifugae**, Tincture of Cimicifuga. Dose, one-half to one dram.

**Specific Med. Macrotys**. Dose, one-tenth to ten minims.

**Macrotin** or Cimicifugin, which possesses all the medicinal properties of the root, is a resinous powder of a dark-brown or yellowish color, a bitter, acrid taste, and slight odor. Dose, one-half to three grains.

**Physiological Action—***Cimicifuga* in large doses produces general relaxation, dimness of vision, dizziness, tremors, slowing of the pulse, fall

of arterial pressure, vomiting or gastric irritation; it stimulates expectoration and perspiration, causes intense headache and prostration. These phenomena are caused by the action of the drug on the vasomotor centers and the cardiac ganglia. The headache is chiefly frontal; in some persons the drug causes pain in the joints and limbs similar to rheumatism.

The agent is certainly an efficient nerve sedative, although its most pronounced action is on the unstriated muscles. It acts in very many cases where these muscles are involved, with general nervous irritation, in an immediate and positive manner. In such cases if the nerve irritation is dominant, its efficiency is greatly increased by combining it with *gelsemium*.

An overdose is promptly signalled by the appearance of the characteristic headache, which assumes a bursting, tearing character, with injected conjunctivae and flushed face. This will abate at once upon discontinuance of the agent.

**Specific Symptomatology—Muscular aching**, local and general, aching pains as from overworked, overstrained muscles, great muscular aching with chilliness and rapidly increasing temperature.

It is the agent for **hysteria** with flushed face and heat in the head, with restless and nervous excitement and general muscular aching.

**Therapy**—In the premonitory stage of **acute fevers**, or of acute inflammatory troubles of whatever character, a common symptom is a general tired feeling with aching of the muscles. In these cases there is usually a chill or chilliness, with more or less fever with the aching. One drop of the tincture of *cimicifuga* every hour will relieve this aching in from six to twelve hours. If given with *aconite* for the fever and *belladonna* for the rigors, the time may be reduced to three or four hours. When indicated, its influence upon the nervous system will probably abridge many of the other symptoms.

Through its influence upon the vasomotor centers and upon the nerve ganglia, it has a beneficial influence upon the heart. In **rheumatic carditis** or **pericarditis** it is a sovereign remedy acting directly in the line of its physiological influence. In neuralgia of the heart—**angina pectoris** and functional **irregularity** of the heart from exalted nerve influence, either alone or combined with *gelsemium*, it is prompt and reliable, and

should be by no means neglected.

Prof. King advised this agent in **coughs**, and its value through its influence upon the nerve centers has been confirmed by many practitioners. It soothes the cough of excessive nerve irritation, and the reflex cough; the irritable cough of acute bronchitis is relieved by it, as it increases bronchial secretions to a notable extent.

A homeopathic writer says that in **pleurisy**, there are often strong indications for *cimicifuga* where it works in harmony with *aconite* and *bryonia*. This is our own experience.

It is given by many as a **stomachic tonic**, and it improves digestion by relieving excess of nerve influence over the functional operations of the digestive apparatus.

As a remedy for **chorea** it has become widely popular. Given in fiftendrop doses of the tincture four or five times daily, it is superior to any other known remedy. Its effects are permanent if the anemia and other concomitant conditions are correctly controlled by proper medication at the same time. Its sedative, tonic and antispasmodic influences are here fully exercised.

It may be combined with *scutellaria lateriflora*, with *valerian* or *gelsemium*, as the indications demand, with superb results. The writer has aired intractable cases by alternating it with minute doses of exalgine.

The characteristic aching pains above described are very constant in **acute rheumatism** and **rheumatic fevers**. *Cimicifuga* is certainly a royal remedy in these cases, and has become universally popular. If the condition be absolutely confined to the joint and does not involve muscular structure, it is not of as much value. The direct indications must be present.

The agent, however, has a specific influence in overcoming **lithemia** and in preventing and curing conditions resulting from an excess of uric acid conditions existing in the **uric acid diathesis**. It is therefore of value with auxiliary treatment in acute or subacute **rheumatic arthritis** with lithemia.

It will be found indicated in **rheumatic neuralgia**, in **sciatica**, in muscular rheumatism of the chest walls, in achings of the deep muscles

of the back, in myalgia, in severe colds, in neuralgia from cold, in rheumatic headache, and in neuralgia of the ovaries; also with women in the intense muscular aching preceding the menses.

*Cimicifuga* operates directly upon the reproductive functions. In the female it is valuable as above indicated, in **dysmenorrhea** of a congestive character always, and in **amenorrhea**. In these cases **aconite** will aid its action greatly, if the condition be induced by sudden cold; and **pulsatilla** will do likewise if the conditions be caused by nervous shock or functional irregularity extending over a longer period. **Helonias** may be given with it, if there be weight and dragging in the lower abdominal region. If leucorrhoea be present with the above indications, it is especially valuable. It is valuable to promote uterine contractions, and in subinvolution. In the aggravating rheumatic pains of parturition, or of the later stages of pregnancy, which deceive by closely simulating those of labor in some ladies of rheumatic diathesis, this is positive and prompt.

In **hysterical conditions** of the menstrual epoch, in hypochondriasis or melancholia at these times, with congestive dysmenorrhea with the above indications, it is specific. In puerperal hysteria with great nervous excitement and the above conditions, or with excitable mania or incipient puerperal insanity, it is a most efficient remedy, having a desirable sedative influence on the nerves of the womb.

The agent is excellent in relieving irregular pains and uterine distress occurring during the course of **pregnancy**. It may be given in small doses, and it thus prepares the patient for parturition and undoubtedly contributes largely to a short, easy and uncomplicated labor. The agent, either as the fluid extract, or from two to five grains of the resinoid, is a most efficient **partus accelerator**. It increases the expulsive pains in a regularly intermittent and normal manner, without spasmodic irritation. While the normal pains are increased, all erratic, rheumatic, irregular and nagging pains are relieved. It promotes uterine involution and hastens normal recovery.

Knox observed the action of this remedy as a **partus preparator** in a hundred and sixty cases. His observations, summed up, are that the remedy has a positive sedative influence upon the parturient women, quieting reflex irritability, nausea, pruritis and insomnia. It has a positive anti-spasmodic effect, correcting neuralgic cramps, and irregular pains of the first stage of labor, sometimes terminating the labor precipitately, if given in too large doses, often without prodromic symptoms.

It relieves undue irritation of the uterine muscular fiber, relaxes the soft parts of the parturient canal, and thus facilitates labor and diminishes the risks of laceration by controlling undue irritability of the muscular fiber.

It maintains a better contraction of the uterus after delivery, but for this purpose he administers a special dose of thirty minims of the fluid extract after the birth of the fetal head. It was his habit in using this remedy for its preparatory effects, to give fifteen minims, at the time of retiring each night, for six weeks prior to confinement.

In six cases where Dr. Coffin used this remedy for the above purpose, there was **postpartem hemorrhage**, and this caused the doctor to question whether or not the agent had such a relaxing influence, as he was not in the habit of giving either this or any other remedy to anticipate such hemorrhage. Others deny this influence. I have never observed it.

Webster claims to have observed a case of **epilepsy**, attended with **amenorrhea** which was kept under control with *Cimicifuga* in conjunction with the bromides, when the bromides alone had previously failed.

The elder Adolphus, treated **ophthalmia** with this remedy, especially when there was severe pain. He gave it in from two to five drop doses, every four hours, day and night. He claimed that in one severe epidemic it did not fail to cure. In the severe cases, he applied it externally, as well as administering it internally. In those cases where there was much nervous irritability, he combined it with *gelsemium*, which he was confident enhanced its influence.

The agent has been advised in the treatment of **smallpox**. One of the old writers claimed that he used it persistently through an entire epidemic, and the results caused him to entertain the highest confidence in this remedy. He believed he had aborted the disease in many cases, in forty-eight hours. If given with the appearance of the premonitory symptoms, the disease was so abridged, that no eruptions appeared. He usually gave it in the form of a decoction, in conjunction with equal parts of *asclepias*, and a small quantity of *ginger*. He gave enough of the remedy, to induce the physiological influence, such as aching in the muscles and pain in the head. The agent should have a further trial in this disease, as others have claimed to obtain results similar to those quoted above, and the influence of the remedy should be confirmed or disproved.

In the male it is valuable in **gonorrhoea**, with aching, in the bladder and across the kidneys. We prescribe it oftener than any other agent in these cases. It soothes the nervous irritability and materially assists in relieving the active inflammation. We usually find indications for **aconite** in the acute cases, or **gelsemium** where there is irritation with a tendency to spasmodic stricture, or **hydrangea** where there are sharp, cutting pains in urination; and these properly combined have been our "sure cure" treatment for many years, with mild injections of zinc sulphate, hydrastine, or hydrogen peroxide, all warm, or of warm water alone. It is valuable also in **orchitis** with its own indications. In **spermatorrhea** with irritability and considerable sexual weakness and plethora, it will cure when other agents fail, if given in half-dram doses after meals.

## **CINCHONA.**

### ***Cinchona, Calisaya.***

Synonyms—Peruvian bark.

#### **CONSTITUENTS—**

Quinine, Quinidine, Cinchonine, Chinchonidine, Quinamine, tannic acid; thirty-two natural and eight artificial alkaloids, resinoid, volatile oil, gum, sugar and wax.

#### **PREPARATIONS—**

**Extractum Cinchonae**, Extract of Cinchona. Dose, one to five grains.

**Extractum Cinchonae Fluidum**, Fluid Extract of Cinchona. Dose, ten to sixty minims.

**Specific Medicine Cinchona**. Dose, one to thirty minims.

#### **Quinine.**

The pure alkaloids of **cinchona** are not employed in medicine, but their salts, formed from acid and basic combinations, are in common use.

In the consideration of the therapeutic properties of the various alkaloids of **cinchona** there is but little difference observed in their action. There is almost no influence exercised by any one of them that is not exercised to an equal extent by quinine, and except where otherwise specified, the Sulphate. of Quinine is the agent here considered.

## Quinine Sulphate.

Dose, one to twenty grains.

**Physiological Action**—In doses of five grains three or four times a day for a few days, it produces fullness of the capillary circulation of the brain, throbbing in the head, suffusion of the face, ringing in the ears, with dullness of hearing, headache, mental confusion and nervous excitement. If the above doses be given every three hours continuously there is muscular feebleness, with general impairment of motility, increasing debility, great restlessness, with wakefulness, dilated pupils and partial loss of sight.

A single dose of sixty grains of quinine sulphate, given to an adult male caused extreme depression, with feeble circulation, coldness of the surface and extremities, respiration slow and sighing; pulse slow and almost imperceptible, pupils widely dilated, sight and hearing almost extinct, voice very feeble; thirst great, tongue pale and moist, breath cold. While in some cases blindness from quinine has continued for some time in no case has it been permanent. Quinine has produced deafness also, which in many cases has been permanent. In some cases death has followed the administration of the remedy in disease, a result fairly attributed to the drug. In small doses it is tonic, in large doses stimulant, and in still larger doses sedative, acting on the cerebro-spinal nervous system and through the ganglionic nervous system on the heart. Besides the above named effects, large and repeated doses may cause gastric irritation, eructations, chill and fever paroxysms headache, perspiration, vertigo, staggering and delirium— the condition known as cinchonism.

**Specific Symptomatology**—Quinine will act favorably upon the system if the skin be soft, if the mucous membranes of the mouth are moist, and if the tongue is moist and inclined to clean, if the pulse is full and soft and the temperature declining or at normal. In other words, when the secretory functions of the body are in a working condition, quinine will produce no unpleasant results.

Quinine is specifically an antiperiodic. It will overcome malarial periodicity, especially if the above named conditions are present when the agent is administered.

It is profoundly tonic; under limited conditions it is antipyretic and also antiseptic. It has specific oxytocic powers over the parturient uterus.



Quinine destroys the **plasmodium malariae** readily, even in the minute quantity of one part to twenty thousand of water. Its influence upon malarial conditions can thus be readily understood.

**Therapy**—In the administration of quinine as an antiperiodic, the beneficial influences are not altogether in proportion to the size of the dose. Enormous doses may abort a chill if given during its course, or during the course of the fever. They are very likely, however, to increase the nervous erethism and the temperature; whereas, if proper doses be given **during the intermission**, from one to three hours preceding the anticipated attack, or at the time when the temperature has reached **its lowest point**, small doses will accomplish positive results.

In **continued fever**, with a sufficiently marked remission occurring at a given time each day, or on each alternate day, the agent should be given during the remission, provided the temperature declines to a point sufficiently low to admit of a temporary restoration of the suspended secretions. This point is usually not above 100 <sup>1</sup>/<sub>2</sub> degrees. If the remission be short, a single dose may be given. As a result the temperature does not run quite as high as on the previous day, and the next remission is more marked and of longer duration. At this time, perhaps, two full doses, two hours apart, may be given. The fever is still lower and the remission so marked by the third day that the agent, in reasonable doses, may be continued through the exacerbation, the temperature at no time, probably, rising above 101 degrees and not increasing above normal after the third day.

The writer has adopted this course for so many years, with perfectly satisfactory results, that the method is confirmed in his mind as the proper one in all cases where malaria is the cause,

Where continued fever exists, quinine is of no benefit if there is no marked remission or other evidence of malaria. It is thus of no use during the progress of typhus, typhoid and other protracted fevers. In such cases it causes nerve irritation and increased temperature, especially if there is deficient secretion.

When the fever is broken and there is a tendency toward a restoration of secretion, and the temperature is normal or subnormal, then this agent is a vitally important one. Here the bisulphate, being readily absorbed,

produces the happiest results.

In **intermittent fevers** it is excellent practice to give the remedy in broken doses during the intermission. The absorption of the sulphate of quinine takes place so slowly that a period of between four and six hours is required, under favorable circumstances, to develop the full effect of the remedy. A dose of from three to five grains, given five hours before the expected paroxysm, will exercise its full influence upon the paroxysm when it should appear.

If another dose of two and one-half grains be given two hours after the first dose, and a third dose of the same size be administered after another period of two hours, or one hour before the chill will occur, the effect of the agent will be uniformly continued during the time in which both the chill and the fever would have reached their highest point. The repetition of this course on the second and third days will usually be sufficient to overcome the most severe. cases. It is well to adopt the same course on the seventh, fourteenth and twenty-first days following the attack.

The following formula is of excellent service in those cases in which the liver and other glandular organs have been profoundly influenced by the disease, and where the nervous system shows considerable depression:

Rx— Quinia Sulphat,	xl grains.
Leptandrin,	iv grains.
Capsici pulv,	vi grains.
Fill into: Capsules,	no. xii.

Sig. One capsule in the manner above specified every two hours until three are taken. When the paroxysms no longer appear, two or three grains of quinine may be given regularly every three hours during the day.

In the treatment of **congestive chill**, and in malignant conditions of malarial origin, quinine is specific, but should be given in much larger doses, and usually with some direct stimulant and in conjunction with the use of external heat. It may be given in doses of twenty grains preceding the attack, or with stimulants during the attack. If a severe attack is fully anticipated, large doses should be repeated every two or three hours during the entire remission.

As an **antipyretic** quinine is no longer used. It was once considered of

essential importance in the reduction of high temperatures, but the conditions and character of its action were so imperfectly understood that it often did harm, and caused an increase in the temperature instead of a reduction. In the regular school the coal tar antipyretics have replaced it. With our own school it has been at no time depended upon to allay fever.

As a restorative after **pneumonia**, where hepatization has been extensive, this agent is an important one. Two grains of the bisulphate of quinine, with one-fourth of a grain of *ippecac*, and perhaps the one-fourth of a grain of *nux vomica*, will rapidly improve the function of the nervous system and of the circulation, and as rapidly overcome the hepatization and other results of inflammatory action. The influence upon the stomach and intestinal canal, and thus upon the digestion and assimilation of food, is marked and immediate.

Quinine is a stimulant tonic of great value. Its influence is exercised to the best possible advantage when there is impaired or deficient nerve force.

It is indicated as a restorative after prostrating disease, especially after continued and inflammatory fevers. It strengthens the action of the heart, improving the character of the circulation of every organ. It arouses the digestive organs and encourages assimilation and nutrition. It stimulates the liver and kidneys, and thus assists in the rapid elimination of the waste products of the disease. It stimulates the respiratory function, promoting oxygenation of the blood, thus assisting in the restoration of the character of that fluid.

These results are accomplished largely through its profoundly stimulating influence upon the cerebral and spinal centers.

It has been the writer's custom to use the bisulphate of quinine as a tonic instead of the sulphate, because of its free solution and rapid absorption. It is milder in its effects upon the nerve centers and fully as efficacious in its tonic influence. It is combined to excellent advantage with hydrastine, *nux vomica* or the salts of iron.

Or it may be given with strychnine or picrotoxin or *ignatia* with excellent results, and if liver complications exist, it may be combined with leptandrin, podophyllin or *iris*.

In chronic **congestion** of the **liver**, or **splenitis**, quinine dissolved in the tincture of the chloride of iron, and combined with syrup of *orange* or simple elixir, produces satisfactory results.

In the prostrating **night sweats** following malarial fever this agent, in the above combination, is a fine tonic, quickly overcoming the sweating and other results of the disease.

Where **paludal miasm** is the cause of various indefinite disorders, or of general malaise, the phenomena occurring periodically, quinine should be given to anticipate the unpleasant symptoms. **Dumb ague**, **hemicrania** and severe general headaches, **neuralgias** of various kinds and **asthmatic attacks** occur from this cause and are satisfactorily treated with this remedy. It may be afterward given as a tonic, in combination with any other tonic agent which may be specifically indicated.

Quinine has a direct power in inducing **contraction** of the parturient **womb**, especially if from inefficient strength the labor has been prolonged until the nervous force of the patient is well nigh exhausted. If fifteen grains be given in one dose, it may overcome all undesirable conditions at once and prove sufficient. The contractions are normal in frequency and of regular character and force.

It thus overcomes inertia and will prevent post-partum hemorrhage. It is a good remedy for this latter condition when it has occurred, acting also as a stimulant to the heart and nervous system. It is a dangerous remedy in large doses during pregnancy, as it may bring on premature labor.

In **amenorrhea**, from cold it is useful and may be prescribed alternately with *aconite*, after a hot bath has started secretion from the skin.

As a stimulating antiseptic it has been used as a wash in very many conditions. In sluggish ulcers and old sores, where there is no activity to the capillary circulation, it may be applied with good results. It is useful in threatened gangrene and in chilblain. It was at one time extensively used as a throat wash in diphtheria, and to its antiseptic character is credited its beneficial influence upon whooping cough, having been much depended on for the cure of that disease.

A douche made by dissolving six or eight grains in a pint of hot water will be found of service in chronic catarrh, with fetid discharge, and in hay fever. In the latter condition, full doses internally, three times a day, will



hypersecretion and restores normal functional action.

These facts are also true in catarrhal **bronchitis**, in **asthma** and in **whooping cough**. In these spasmodic coughs the antispasmodic influence of the agent is of prime importance.

It is of service when added to cough syrups as a stimulating sedative in the persistent coughs of capillary bronchitis.

It has a marked **anaphrodisiac** influence, and has been given freely in nymphomania, satyriasis and erotomania. Its influence in controlling sexual excitement is positive. It cures priapism, chordee, and in a general way reduces the power of erection and the sexual appetite. In sexual weakness and in nocturnal emissions accompanied with erotic excitement from over indulgence, with violent erections, it is of much use and may be combined with *ergot* to equalize the circulation of the organs.

It is a stimulating diaphoretic in fevers, and in inflammatory disorders with inactivity of the sudoriferous glands. This is especially true in exanthematous fevers, and where there is mania in prostrating fevers. Its influence is marked in adynamic fevers where there is feeble, rapid heart action and irritable pulse, with dry skin and muttering delirium, with subsultus tendinum. It has a diffusive stimulating influence in these cases which is of value.

It is combined with *opium* and *ippecac* in the well known **Diaphoretic Powder**, in the proportions of one part each of *camphor*, *opium*, and *ippecac*, with seven parts of the potassium sulphate. The dose is from two to ten grains.

## **CAMPHOR MONOBROMATE.**

Synonym—Monobromated Camphor.

**Occurrence**—Formed by heating bromine and camphor in a sealed tube on a water bath. The crystalline product is dissolved and recrystallized, first from water, then from alcohol.

**Description**—Prismatic crystals, colorless, with the odor and taste of camphor, permanent, soluble in alcohol, ether and chloroform, insoluble

in water. Dose, from one-tenth to five grains.

**Administration**—For children a good preparation is made by taking one part of the crystals and triturating it thoroughly with nine parts of the sugar of milk. Of this one grain may be given every hour to a child of two years.

**Physiological Action**—The agent has the properties of a stimulating sedative, exalting the nervous functions when depressed, when there is great restlessness, excitability or delirium. It has marked anodyne and hypnotic properties under proper circumstances.

**Therapy**—It is prescribed in **nervousexcitement** or extreme restlessness accompanying inflammatory disease or protracted fevers. It is specific in nervous irritation from reflex causes.

It is an excellent remedy for children with the long train of symptoms resulting from irritation of the dental nerve.

The indications are diarrhea, nausea, great restlessness, fullness of the circulation of the head, with heat, sleeping with half open eyes, rolling of the head, and tossing, crying but with little sharp cries. These symptoms occur at any time during development of the milk teeth.

In fully developed cases of cholera infantum, with the extreme symptoms of involuntary watery discharges, cold extremities, pinched features, emaciation, apparently uncontrollable vomiting, this agent is given in full doses, and it will often meet alone the whole train of indications.

It is a hypnotic when fever and general distress induce wakefulness.

In **delirium tremens** it has produced good results, and in mild cases of the **delirium** of protracted fevers, with restlessness, it will be found of advantage.

It has been used in chorea, and in hysterical manifestations of an excitable character, and in nervous **palpitation**, and irregular heart action from reflex irritation.

## CINNAMON.

*Cinnamomum zeylanicum.*

Synonyms—Cinnamon bark, Ceylon cinnamon.

### CONSTITUENTS—

Volatile oil, tannin, sugar, mannit, starch mucilage.

### PREPARATIONS—

**Tincturacinnamomi**, tincture of cinnamon Dose, from a half to two drams.

**Specific cinnamon.** Dose, from ten to thirty Minims.

**Physiological Action**—This agent has long been used as a carminative and local gastric stimulant. It has a mild influence which is grateful and soothing. It has been used to check **nausea** and **vomiting** and to relieve **flatulence**.

Its rare properties have been overlooked by the profession and it has been assigned to its exact position by the masses of the people. Midwives and old nurses have long given a strong infusion of cinnamon to control **postpartumhemorrhage**, and it has been advised in “**nose-bleed**” and in flooding **during miscarriage** and in **menorrhagia**. It has been useful in domestic practice, also in **diarrhoea** and **dysentery**.

**Therapy**—*Cinnamon*, in the experience of the writer, is a hemostatic of much power and is positively reliable in all passive hemorrhages. It is not advisable to combine it with the usual astringents, as *ergot*, *geranium* or *epilobium*, but it acts in perfect harmony with *erigeron* and to a certain extent with *turpentine*. German authorities claim that as soon as the menses or any **uterine hemorrhage** becomes excessive and produces exhaustion or causes alarm the decoction should be administered freely. It works to a better advantage in hemorrhage due to atonic conditions of the non-gravid womb, or where there is muscular relaxation, or a general flaccid state of the womb after delivery.

It certainly restores tone to the uterine muscular structure and induces tonic contraction. It will also, Hale says, moderate hemorrhage not dependent on plethora, anemia or organic uterine disease. In some cases, during labor, it promotes the normal labor pains and materially increases uterine contraction, and prevents post-partum hemorrhage.



The writer, for nearly thirty-five. years, has used an extemporaneous prescription, which is his first resort in passive hemorrhage, if the stomach is not seriously disordered. It is somewhat of an irritant to the stomach, especially if full doses be given for a protracted period.

It is a superb case-remedy for emergencies.

It is made by combining a dram each of the oils of *cinnamon* and *erigeron*, and adding enough alcohol to make two ounces. Of this, from ten to thirty drops on sugar, or dropped at once on water, will control nearly every controllable passive hemorrhage. He has used it in all the uterine conditions named above, in extreme **pulmonaryhemorrhage**— persistent hemoptysis, in the gastric and intestinal hemorrhages of alcoholics. In all forms of hematuria, especially in renal tuberculosis and in habitual nasal hemorrhage, in many cases, a single dose accomplishes the object. As stated, it is not well combined with ergot, but works harmoniously with ergot or gallic acid, if given in alternation.

Two of our physicians at least advise the use of cinnamon in **simple diabetes** of a chronic character. Dr. Houts used it for himself after he had had this disease for months, and found all the conditions improving.

## **COLOCYNTHIS.**                      *Citrullus colocynthis*

Synonym—Colocynth.

### **CONSTITUENTS—**

Colocynthin, extractive, fixed oil, resin, gum, pectin, calcium and magnesium phosphate.

### **PREPARATIONS—**

**Extractum Colocynthidis**, Extract of Colocynth. Dose, from one-half to two grains.

**Extractum Colocynthidis Compositum**, Compound Extract of Colocynth. Dose, from five to twenty grains.

**Specific Medicine Colocynth**, Dose, from one-twentieth to three minims.

**Physiological Action**—Hydragogue cathartic, tonic. In excessive doses it causes violent emesis, catharsis, bloody stools, severe burning colicky pains, spasms, and in some cases death.

Dr. Cressman of Illinois reported a case poisoned by *colocynth*. The patient was taken with violent pain in the stomach and bowels, followed immediately by vomiting. The bowels moved once, then. The tongue was clean; the pupils were dilated; pulse weak and rapid; respiration short; skin cool and moist; intense frontal headache. The pain in the extremities increased with the pain in the back. In twenty-four hours the pulse was weak, temperature subnormal, bowels moving every fifteen or twenty minutes, movements streaked with blood, headache very intense, tenesmus extreme. By hypodermics of morphine for the pain, and carbolic acid and subnitrate of bismuth for the intestinal disturbance, she slowly recovered, but subnormal temperature continued for several days.

**Specific Symptomatology**—Acute, cutting pains in the stomach and bowels in infants-in otherwise perfect health. Intestinal derangements denoted by screams and sharp crying out in sleep, persistent crying and screaming with drawing up of the legs in very young babes. Spasmodic pain of all kinds in the stomach or bowels.

**Therapy**—Five drops of the tincture in half a glass of water, a teaspoonful every fifteen minutes, will cure **infantile colic** with the above symptoms in an hour. It is serviceable in all forms of colic in these small doses, whether from the liver, stomach or the intestines, if the pain is sharp, quick and of a cutting character. It will cure neuralgic colic wherever located, and also some cases of idiopathic neuralgia.

In large doses it is **cathartic** and depressant in its action, slowing the heart and reducing the temperature and at the same time producing great irritation, consequently feebleness and inflammation are contraindications to its use.

In **bilious dyspepsia**, so-called, with distension or a feeling of fullness in the stomach after eating, it is a good remedy in minute doses given after meals. The tincture is a better remedy than the specific, as the latter is too active. It is a good plan to dilute it for every day prescribing, in the proportion of one dram to nine drams of dilute alcohol. Of this ten minims in a four-ounce mixture will produce excellent results.

*Colocynth* is advised for **ovarian trouble** where the pain is sharp and cutting; where the ovaries are enlarged and tender from neuralgia. Also during menstruation if the pain is griping, spasmodic, sharp, and severe. Ten drops in a four-ounce mixture, a teaspoonful every half hour or hour. In the latter case better results may be secured by adding to the mixture



delirium, semiconsciousness, a slow and irregular pulse, cold extremities and cold, clammy perspiration, lowered temperature, anesthesia, cramps, tremors, a reeling gait, convulsions, dimness of vision, increase of urine. The habitual and excessive use of *coffee* as a beverage causes indigestion, with acidity, cardiac irritability, vertigo, headache, irritability of disposition and despondency.

**Therapy**—The tincture of *coffee* made from the unroasted berries is a **nerve stimulant** and **antispasmodic**. It increases the heart's action and produces a rise in arterial tension. It is of value in nervous headache, and in vertigo from imperfect circulation in the nerve centers—in cerebral anemia.

*Coffee* is used as a **stimulant** to antidote the effects of **narcotic poisons**. In *opium* poisoning its effects are prompt and immediate. A strong decoction is prepared and injected within the rectum, if impossible to administer it per orem.

The late Dr. Brodnax, beginning in 1876, used *coffee* as a stimulant in the debility of slow fevers, especially in protracted pneumonia with feebleness. He found it in every way superior to whiskey.

He observed that new born infants that kept up a whining cry for days always succumbed ultimately from some one cause or other. He took *raw coffee beans*, ground them and made a strong tea with which he succeeded in curing the condition in every case in which he used it.

## **KOLA.** *Cola acuminata.*

Synonym—Kola nut.

### **CONSTITUENTS—**

Caffeine, Theobromine, tannin, fat, sugar, starch, gum.

### **PREPARATIONS—**

Extractum Kolae Fluidum, Fluid Extract of Kola. Dose, ten to thirty minims.

It is prepared by different manufacturers in the form of wines, cordials or elixirs. A solid extract is also prepared.

**Physiological Action**—The natives of the western portion of tropical Africa use the seeds of *kola* most extensively to overcome fatigue, to support the strength on long marches, and to overcome depression of spirits and melancholy. It is most highly esteemed and is in as common use as *tea*, *coffee* and *cocoa* in civilized countries, closely resembling the first two named.

The agent sustains physical strength to a remarkable degree. It is a tonic to the heart, increasing the strength of its impulse; it regulates the pulse, increases arterial tension, induces diuresis, but retards tissue metabolism. It is a stomachic tonic, inducing a normal appetite and good digestion. It restores normal action in debilitated conditions of the intestinal tract.

**Therapy**—It is used in **neurasthenia** and **hysteria**, characterized by great mental despondency, foreboding, brooding, more of a quiet or silent character. It is especially indicated if the heart is feeble and irregular in its action, with general muscular feebleness. In **cerebral anaemia** it is indicated and is an excellent auxiliary in general anemia. It is an excellent restorative after prostrating **fevers** and protracted exhausting disease. It is of specific value in **melancholia**.

In **weak** and enfeebled conditions of the **heart** muscle, with valvular weakness, dyspnea irregular action, it is of benefit, the influence being quickly exhibited on the pulse, and an improved sense of well-being experienced.

It is recommended as a substitute for alcoholic drinks, and has been used to most excellent advantage as a stimulant and restorative in the treatment of the, drink habit. Those most enthusiastic claim that it alone will cure **alcoholism**.

It is advised in **chronic diarrheas**, with great lack of tone. It has been used in **sea sickness**, one ship surgeon claiming that he had used it on many voyages, and had found it to relieve even the most susceptible, in many cases. The agent is without doubt a valuable one in its field.

## **COLCHICUM.**

## ***Colchicum autumnale.***

Synonym—Meadow saffron.

Dose of the bulb, from. two to eight grains; of the seed, from one to five grains.

**CONSTITUENTS—**

Colchicine, Colchicortecin, Beta-colchicoresin.

**PREPARATIONS—**

**Specific Colchicum.** Dose, from one-fourth minim to three minims.

**Extractum Colchici Semini Fluidum.** Fluid Extract of Colchicum Seed. Dose, from one to five minims.

**Vinum Colchici Radicis.** Wine, of Colchicum Root (when made from the fresh bulb). Dose, from one to five minims. It should be discontinued as soon as violent catharsis or any depressing effects are observed.

**Physiological Action—**Moderate doses cause some gastro-intestinal irritation, with loss of appetite, colic and diarrhea; if the quantity is increased there is bilious vomiting, irritation of the colon with colicky pains, bloody and mucous stools, but without tenderness on pressure over the abdomen; while poisonous doses cause violent gastro-intestinal irritation, griping, purging, vomiting, painful spasms of the limbs and trunk, collapse, delirium, coma and death.

It is a cathartic and depressant of vital action, in large doses, an irritant poison inducing the phenomena of acute cholera, with enfeeblement of the heart's action and of the circulation.

**Therapy—**A recent Homeopathic writer, finds the indications for *colchicum* very often present in vomiting and the nausea of pregnancy. His success has been so prompt and gratifying, that he seldom uses other remedies. It is indicated when there is a clear, glairy, stringy fluid vomited, the nausea aggravated by smell of food.

In autumnal diarrhea, with white or bloody mucous discharges, the remedy gives immediate results.

The remedy is seldom used for its cathartic influence but has long been given as a magical eliminative in **chronicrheumatism** and **gout**. It has a specific influence upon muscular pains, acting in harmony with *cimicifuga*, with which it is usually prescribed, and with *gelsemium*. It must be given always short of its cathartic action; even then, when continued for some time, it depresses the heart and the nervous system, producing a feeble pulse and cool skin. It is seldom given in acute

rheumatism, although it may be prescribed advantageously in these cases.

In rheumatic carditis or pericarditis in its sthenic stage, its influence is sometimes superior to that of any other agent. Its direct influence on the disease processes is exercised to a most desirable extent.

**COLLINSONIA.**                      *Collinsonia canadensis.*

Synonym—Stone Root.

**CONSTITUENTS—**  
Volatile oil, resin.

**PREPARATIONS—**

**Specific Medicine Collinsonia.** Dose, from one to sixty minims.

**Extractum Collinsoniae Fluidum,** Fluid Extract of Collinsonia.  
Dose, from two to fifteen minims.

**Tincture Collinsoniae,** Tincture of Collinsonia. Dose, from five to thirty minims.

All preparations should be made from the green plant.

**Physiological Action—***Collinsonia*, stimulates the stomach, promoting its own absorption. It is actively tonic in its influence upon the entire function of this organ, and from this influence its beneficial action is exercised upon the function of all the vital organs.

*Collinsonia* acts as a tonic to enfeebled muscular structure of the heart. It is conspicuous in its ability to overcome relaxed and out of tone conditions of the walls of the veins. It has a direct influence upon atonic and dilated or otherwise impaired conditions of the veins and arteries.

**Specific Symptomatology—**In **piles** with a sense of fullness, or of a foreign body in the rectum, in all relaxed conditions of the mucous membranes of the lower bowel, *collinsonia* is the remedy. It works more promptly if there is passive congestion with blueness or dark discoloration of the membranes, showing imperfect venous capillary circulation.

*Collinsonia* is given where there is a sensation of constriction, heat and weight in the rectum; where there is deficient secretion from imperfect

capillary circulation in the mucous membranes, the patient passing the feces in the form of dry scybala.

**Therapy**—It is a specific remedy for **hemorrhoids**. If they are of recent origin they can be cured in a comparatively short time with this agent. The most intractable cases will be relieved and permanently benefited by its persistent use. There is no therapeutic influence more reliable than this. I have relied upon it for years.

In **catarrhal gastritis**, where the circulation is defective, *collinsonia*, either alone or combined with *hydrastis*, is of first importance. These agents combined improve the tone of the stomach, strengthening its walls and its mucous membranes, and increasing the strength and character of its glandular structure. They increase the appetite and greatly improve the digestion and assimilation of food.

This combination is a superb general tonic in relaxed and debilitated conditions, and combined with iron can hardly be excelled.

Acute inflammations do not promptly yield to *collinsonia*, although it is an excellent auxiliary to the indicated treatment.

When **piles** are operated upon, this remedy may be given before and after the operation to most excellent advantage. The author has cured many cases by combining equal parts of the fluid extracts of *collinsonia* and *hamamelis virginica*, and giving from twenty to thirty drops of the mixed extracts every two hours. The distilled extract of *hamamelis* can be injected into the rectum, or kept in contact with the external piles by a compress, especially during sleep. Or an occasional application of the liquor of the persulphate of iron in full strength can be made to stubborn external piles.

*Collinsonia* is of great value in the hemorrhoids of the pregnant female, with imperfect venous circulation in the pelvic viscera.

**Pain in the rectum** from whatever cause, especially pain not attributable to a definite cause, and pain after surgical operations or a sensation of weight, constriction and general uneasiness in the rectum are quickly and more or less permanently relieved by *collinsonia*. In pain in the lower bowels, persistent and steady, *collinsonia* is specific. Either single full doses, or doses of five minims of the tincture every ten minutes, should be given in water. It is superior to *opium* in some cases.



*Collinsonia* is a **heart tonic** of direct and permanent influence. It does not seem to stimulate the heart to sudden action, but its continued use induces steady, permanent and highly satisfactory improvement in the strength and character of the organ, and a correspondingly improved general circulation.

It is valuable when the heart is debilitated from protracted fevers, or from **rheumatic inflammation** or from overstrain. It will be found excellent in the **bicycle heart**, in conjunction with small doses of *cactus grand*.

In chronic **laryngitis** or **pharyngitis**, with relaxed walls of the larynx, with dark discoloration and enfeebled capillary circulation, *collinsonia* exercises a specific influence, especially in the condition known as **clergyman's sore throat**, caused or increased by the use of the voice.

In atonic conditions of the circulation of a local character, where **passive hemorrhages** are of frequent occurrence without apparent cause, where there is increasing debility, *collinsonia* and *hamamelis* in conjunction given as above indicated are positively curative.

I have made some important observations within the last five years, and have collected the observations of others, which must be added to our knowledge of this remedy. Guided by its influence upon the walls of the veins, I have given it in large doses persistently in the treatment of **varicocele**, and have obtained satisfactory results. I would advise that it be given in the early stage of this difficulty, and if the condition is anticipated in boys, or youth at the age of puberty, the patient may be put on this remedy and kept on it, for some time.

My suggestions concerning its positive action in **hemorrhoids** alone, or combined with *hamamelis*, as may be indicated, have been acted upon by very many physicians who have reported brilliant results, and an increasing confidence in the remedy.

This agent having a specific influence as suggested above, upon the walls of both the veins and the arterioles has been my most reliable remedy in the treatment of **varicosis**. This may be general or local, it may be permanent or temporary, as in pregnancy. I have had admirable results with this and *hamamelis* combined in the treatment of extreme cases of **varicosis of the vaginal walls** and pudenda, during pregnancy. Cases

which would certainly otherwise have demanded an operation before delivery for the patient's safety, were cured fully before delivery with no complicating influences. I would prize it most highly for this result alone.

I had under observation, for a short time, the worst case of **epilepsy** it has ever been my lot to treat. The paroxysms, if the patient was not saturated with medicine, would occur many times a day. The patient's mind ultimately became a blank.

The paroxysms were completely controlled during a period of nearly two years, by tablespoonful doses of the fluid extract of *collinsonia* three or four times daily. Given at the beginning of an attack, it would ward off the attack.

I have not been able to find many other physicians who have made any observation of the remedy in the control of convulsions, but it certainly exercised that influence in this case, and therefore should be used in similar cases, and the results reported. It acted in every way similar to the bromides for which it was given as a substitute.

Other writers attribute anti-spasmodic properties to *collinsonia*. In the treatment of **chorea**, some writers have given it with excellent results, believing it to be superior to cimicifuga or arsenic in this disease.

In subacute proctitis, and **muco-enteritis**, with **dysentery**, or following dysentery, or when dysenteric phenomena are present during cholera **infantum** with pain or inflammation in the rectum, this agent is important.

Where operations have been performed upon the rectum for **ulcers**, **piles**, **fistula**, or the removal of pockets, the consequent soreness is directly relieved with full doses of *collinsonia*. Pain in the rectum that cannot be attributed to any given cause can be relieved by *collinsonia*. Dr. Scudder advised the use of this agent in small doses. I have been obliged to give it in doses of from ten to twenty minims to secure the desired results. I am confident that the larger dosage will give more satisfaction.

Foltz employed this agent where there was **inflammation** in the **middle ear**, when there was **follicular pharyngitis** is and hypertrophy of the glands of the throat. Chronic thickening of these membranes with enlarged capillaries, will be relieved by it.

Shoemaker extols *collinsonia* in the treatment of **acute cystitis**. Combined with *aconite*, he has excellent results, In some cases he combines it with narcotics, and uses it as a rectal or vaginal injection, or it may be incorporated in a suppository for this purpose. It promptly relieves **spasms** of the **sphincters** and **vaginismus**.

## **MYRRH.**

## ***Commiphora myrrha.***

### **CONSTITUENTS—**

Volatile oil, Myrrhol, Glucocide, resin, gum.

### **PREPARATIONS—**

**Tinctura Myrrhae**, Tincture of Myrrh. Dose, from five to thirty minims.

**Tincture Aloes et Myrrhae**, Tincture of Aloes and Myrrh. Dose, from twenty minims to two drams.

**Physiological Action**—A stimulant to the nervous system, with tonic properties. A stimulant with local action upon mucous membranes and glands and glandular organs; antiseptic. In overdoses, emetic and actively cathartic, decreasing bronchial secretion.

**Specific Symptomatology**—Myrrh is specifically indicated in a general sense where there is adynamia or extreme asthenia, with weak, inefficient capillary circulation, cold skin, weak pulse and deficient circulation.

It increases the power and frequency of the heart and respiratory action, and conduces to a general sense of warmth and increased vigor.

**Therapy**—This agent has always been highly esteemed as a stimulant, although its influence is more of a local than a general character. It exercises the characteristic influence of most of the stimulants upon the excretions and secretions, acting as a diaphoretic, expectorant, sialagogue, and to a certain extent emmenagogue.

It was once popular in the compound tincture of *capsicum* and *myrrh*. As a most active general stimulant in ulcerative, engorged, flabby and **atonic conditions** of the **mucousmembranes** of the **mouth** and throat this agent acts promptly. It stimulates the capillary circulation, restores tone and normal secretion and causes the healing of ulcerations. It is useful in sore mouths of all kinds, and especially in syphilitic sore mouth and sore

throat. It may be combined with other washes or gargles or it will act promptly alone.

It will quickly cure the beginning of **syphilitic ulcerations** in the throat and mouth. In the **spongy gums** and **aphthous sore mouth** of children, in **stomatitismaterni** if combined with an alterative and tonic astringent it will assist in the cure of the very worst cases without taking the child from the breast. An infusion made of *white oak bark*, *yellow dock root* and *myrrh*, to which may be added a mild antiseptic, as *baptisia*, *echinacea*, or boric acid, will cure the most intractable cases of this latter named disease. *Myrrh* is excellent in the sore mouth and extreme ulceration of **mercurial ptyalism**.

In its influence upon the **digestive apparatus** *Myrrh* is direct in its action. It quickly increases the power of the digestive function, stimulating the peptic glands to extreme action. It increases the appetite and promotes the absorption and assimilation of nutrition. It is given in **atonic dyspepsia** in the absence of inflammatory action, especially if there is excessive mucous discharge from the bowels.

It is exceedingly useful in the **apepsia** and extreme inactivity of the stomach in alcoholics, either alone or combined with *capsicum*.

While it is expectorant, and stimulates the secretion from the mucous membranes when inactive, it influences to a satisfactory extent the restoration of the functions of those membranes when the secretion is excessive, as in **catarrhal conditions**. In deficient or excessive action it restores the normal conditions.

In **debilitating expectoration** of phthisis pulmonalis it suppresses secretion and increases the patient's power to throw it off. In excessive mucous secretion from any organ it has a direct influence. In atonic catarrhal diarrheas of a subacute or chronic character its influence is specific and satisfactory.

In some cases of **catarrh** of the **bladder** it is used internally, and in the irrigation fluid also. It is valuable in **prostrating leucorrhoea**.

It is an old popular remedy in **amenorrhoea** given in combination with *aloes* and iron, especially in chlorotic and anemic patients. It has long been in use in the old school for this purpose. It may be combined also with macrotin to a good advantage.

## CONIUM.

## *Conium maculatum.*

Synonyms—Poison Hemlock; Poison Parsley.

### CONSTITUENTS—

A volatile alkaloid Conine, Conhydrine, Methylcenine, Pseudo Conhydrine.

### PREPARATIONS—

**Extractum Conii**, Extract of Conium. Dose, one-half grain.

**Extractum Conii Fluidum**, Fluid Extract of Conium. Dose, two to six minims.

**Expressed juice** of the fresh plant preserved with alcohol. Dose, three minims.

**Specific Conium.** Dose, one to five minims.

There is great variation in the quality of the different preparations of *conium*, and care must be exercised in selecting a good one.

**Physiological Action**—When given in a sufficient dose, *conium* causes complete relaxation of the whole muscular system; the eyes close, the movements of the eyeballs are sluggish, mastication and swallowing are difficult, speech is slow and maintained by an effort, the voice is hoarse, while the heart and intelligence are not disturbed. In a fatal dose, the lower limbs become paralyzed, the effect gradually ascending to the upper part of the body, intelligence being retained to the last.

**Administration**—If the characteristic odor of this substance is absent, the probabilities are that it is devoid of value, as it is the volatile principle which possesses the odor, and it is that upon which its value as a therapeutic agent depends to a great extent. Care must be taken in diluting fluid preparations as they are apt to precipitate. Fresh preparations only, diluted when administered, are reliable.

**Specific Symptomatology**—The agent relieves the **pain of cancers and ulcers**. In this it is of specific value. It is of much importance in **ulceration of the stomach** either acute or chronic, and in incipient **gastric cancer**. It will soothe the pain more efficiently than other apparently more powerful agents. It must be given in large doses; as much as fifteen minims of the fluid extract are sometimes needed. Large doses must be carefully watched. It relieves distress in the glandular

organs and in glandular enlargements, when there is a scrofulous or cancerous cachexia, dull aching pains not usually acute, not sharp cutting pains. In the pain of cancer of the pelvic organs or of the mammae it gives relief, and, indeed, it gives relief to pain in the pelvic organs whatever the cause or character.

**Therapy**—The anodyne and antispasmodic soothing properties of the agent suggest its use in spasmodic affections and irregular muscular movenients—movements attended by extreme activity of the motor nerves. In **paralysis agitans**, in **chorea** and in **hysteria**, in **delirium tremens** and **acute mania** it is thus advised. Its use in **trismus**, **laryngeal spasm**, in irregular muscular twitchings and spasmodic **wry neck**, will be attended with excellent results. In profound spasm, as in convulsions, epilepsy and tetanus, while of some benefit, it is of no marked value and more potent agents are prescribed. In its adminis-tration, hypodermic injections of **Hydrobromate of Conine** are sometimes much more prompt and satisfactory in their action.

Conium is useful in many kinds of cough and inflammatory diseases of the chest. In **whooping cough** and in many other spasmodic coughs it is of much service. It is useful in **asthma** and the difficult breathing of **emphysema**. It may be used internally or the ointment may be applied over the chest.

It is valuable in **laryngitis** and in dry irritable bronchial coughs and in phthisis. In all such coughs the vapors inhaled from the fluid extract or juice dropped on the surface of hot water, in a rather close-mouthed vessel, is sometimes of marked benefit. In the pains of **chronic hepatitis conium** is excellent.

As an application to **cancerous surfaces**, poultices prepared from the leaves have given relief, and ointments carefully prepared which contain the juice or small quantities of conine, will be found of service. Lotions containing the juice or fluid extract will be found of use in open sores and persistent ulcerations.

In ovarian pain or pain from **ulceration of the cervix uteri**, or other persistent uterine pain or distress, a vaginal suppository containing a grain of **conium** may be inserted at night, or twice daily, if the patient be recumbent. **Rectal fissures** and painful ulcers may be treated with rectal suppositories. Pain from acute pelvic inflammation may be relieved by this method.

## **CONVALLARIA.**

## ***Convallaria majalis.***

Synonym—Lily of the Valley.

### **CONSTITUENTS—**

Convallarin, Convallamarin, both Glucosides.

### **PREPARATIONS—**

**Extractum Convallariae Fluidum**, Fluid Extract of Convallaria.  
Dose, from five to twenty drops.

**Tinctura Convallariae**. Dose, from five to thirty minims.

**Specific Medicine Convallaria** is always made from the fresh root. It may be given in doses of from one to five minims in water, frequently repeated, giving good results, prescribed from one-half to two and one-half drams, in four ounces of water.

All the preparations are stable in water except the fluid extract of the root. An infusion of the entire plant was used in the most of the original investigations made. It yields good results.

The Glucoside Convallamarin is given in doses varying from  $\frac{1}{12}$  of a grain to one grain. The granules of  $\frac{1}{6}$  grain- afford an excellent form, as they may be dissolved in water if a smaller dose is desired, or one or more granules may be given at a dose.

**Physiological Action**—A poisonous dose to a child produced great restlessness, rolling and tossing, continuous trembling of the arms and legs, and one attack of general convulsions. There was stupor, from which the child was roused by the greatest effort, to immediately relapse into it again on being left quiet. The pupils were moderately dilated, the temperature became subnormal, the pulse rapid and exceedingly irregular. The respiration was very regular but rapid, shallow or superficial. The face was flushed. The agent induced no diuretic or diaphoretic influence in this case and no gastro-intestinal irritation. Bogoyavlenski's extensive observations of the action of *convallaria* upon warm-blooded animals were as follows: It induces a sudden retardation of the cardiac contractions, with increase of blood pressure. After the period of retardation there follows a strongly pronounced acceleration of the contractions with still greater increase of blood pressure, arrest of heart beat with diminution of blood pressure. When the vagi are

previously divided the precursory retardation does not take place. If, during the period of acceleration of the contractions, the peripheral ends of the vagi are irritated, the usual effect on the heart is not observable.

In the left and right ventricles there was found an extravasation of blood under the endocardium. Under its influence the quantity of urine is much increased, and dropsical exudates are promptly absorbed and the weight of the patient lessened. The diuresis induced by the remedy continues long after cessation of its administration. The pulse grows fuller, more regular, and in some cases slower. It is not poisonous and has no cumulative action.

**Specific Symptomatology**—The direct therapeutic indications are **organic heart weakness** with **valvular inefficiency**, especially if accompanied with **dropsy**. It is probably an efficient remedy for **dropsical infiltration** wherever located, if due to inefficient heart.

**Therapy**—It strengthens the heart's action, slows a rapid and feeble pulse, corrects the rhyme and rhythm, improves the tone and increases the power of the heart, as evidenced by increased tonicity throughout the entire capillary circulation. It may be given for a few days and then discontinued for as many days when its influence remains. Its influence is exercised in a regular, steady and permanent manner.

Its efficiency in **dropsy** is evidenced when there is sluggishness of the general circulation, with extreme inefficiency of the capillary circulation and greatly diminished blood pressure. In these cases, if the kidneys are not seriously diseased, it can be made to induce extreme diuresis and give prompt relief.

It can be given with impunity and small doses should not be relied upon in extreme cases. If prompt effects are desired the tincture in full doses can be given in hot water, or an infusion of the entire herb will yield the best results.

In some cases of chronic nephritis the kidneys will fail to respond to the action of the agent. But these cases are necessarily extreme ones, as in many cases of **Bright's disease** most beneficial results are obtained from the use of this agent.

It overcomes **general depression**, favors elimination, adds power and regularity of action to the heart, overcomes distress of breathing,



conduces to rest and sleep, and induces a general sense of improved well-being. It is an excellent remedy with which to improve the tone and vigor of the **heart** after the depressing effects of **protracted fevers** or violent acute inflammation, especially of the lungs and bronchi. It is useful also in the enfeebled heart of **phthisis pulmonalis**.

It is of much value in rheumatism, especially when the heart is involved. In **rheumatic carditis** or **pericarditis** it serves a double purpose. It strengthens and improves the tone of the heart, and favors the elimination of morbid products which cause the inflammation. But few remedies will act more efficiently. If there is effusion within the pericardium its influence will be quickly observed.

To sum up the influences of *convallaria*: It is used to excellent advantage in the **tobacco heart** from cigarette smoking; in the **bicycle heart** from overstrain; in **asthmatic breathing** from enfeebled heart, especially in **chronic asthma**. It does not, like *digitalis*, irritate the stomach unpleasantly. On the contrary, it is of much service in that form of dyspepsia in which there is extreme torpor of the stomach, with pale, flabby mucous membranes of the mouth, broad, thick tongue, with a heavy, dirty white coating. In conditions where the tongue is red and thin, with elongated papillae, redness of the tip and edges, it is contraindicated. It is contraindicated also in fatty degeneration of the heart.

Germain-Sée mentions the following therapeutic indications:

In palpitation resulting from a state of exhaustion of the pneumogastric nerves—**cardiac paresis**, the most frequent source of palpitations.

In simple **cardiac arrhythmia**, with or without hypertrophy of the heart, with or without lesions of the orifices or valves of the heart.

In **mitral constriction**, especially when it is accompanied by failure of compensation on the part of the left auricle and right ventricle, the contractile force augments visibly under the *convallaria*, as the sphygmograph testifies.

In **mitral insufficiency**, especially where there are pulmonary congestions, and when, as a consequence, there is dyspnea, with or without nervous trouble of the respiration.

In **dilatation** of the left ventricle, without compensatory hypertrophy, it restores energy of the heart, which tends to become more and more feeble and dilated. In **dilatations** of the heart, with or without fatty degeneration, with or without sclerosis of muscular tissue, the indications for *convallaria majalis* are clear.

In all **cardiac affections** indifferently, from the moment that watery infiltrations appear, *convallaria* has an action evident, prompt and certain.

In lesions with **dyspnea** the effect is less marked. To combat cardiac dyspnea, *convallaria* is inferior to *Quebracho*. The combination of *convallaria majalis* with iodide of potassium in the treatment of **cardiac asthma** constitutes one of the most useful methods of treatment. One is often obliged to suspend the employment of *digitalis* on account of vomiting, digestive disturbances, cerebral excitation, the dilatation of the pupil, which it so often produces after prolonged use. No such results obtain from the use of *convallaria*.

## **CONVOLVULUS.                      *Convolvulus scammonia.***

Synonym—Scammony.

### **CONSTITUENTS—**

Resin (scammonin, identical with jalapin), gum, fibre, starch.

### **PREPARATIONS—**

**Regina Scammoniae**, Resin of Scammony. Dose, from three to eight grains.

**Therapy—Scammony** is a **vermifuge** and is useful in combination with other vermifuges to increase their action. It also acts as a cathartic for their removal, as its cathartic influence is of considerable importance. It is hydragogue and irritating in large doses and more or less depressing. It has a certain eliminative influence, and like podophyllum, has been given in conjunction with alteratives. It is greatly superseded in this line of action, by many other of our agents better known.

## **COPAIBA.**

## ***Copaiba langsdorffii.***

Part Employed—The oleoresin.

**Oleoresin of Copaiba** is obtained by boring holes into the trunk of the tree near its base, from which the oleoresin is collected. It is a translucent, viscid liquid, of a pale or brownish-yellow color, having a characteristic odor and a bitter, acrid, nauseous taste. Solvents, alcohol, ether, chloroform. Dose, from five to sixty grains.

**Oleum Copaiba**—Oil of Copaiba. The volatile oil, which is obtained by distillation, is a limpid, pale-yellow liquid, with the odor of copaiba, and a pungent, aromatic, bitter taste. Dose, from ten to fifteen drops.

### **CONSTITUENTS—**

Volatile oil, copavic acid, bitter principle, resin.

### **PREPARATIONS—**

**Massa Copaibae**, Mass of Copaiba. Dose, from ten to sixty grains.

**Mistura Copaibae Composita**, Compound Copaiba Mixture. Dose, from a half to one dram.

**Therapy**—This agent is used in the treatment of **gonorrhoea**. It is best used after active inflammation has subsided where the mucous structures of the urinary tract are debilitated. It is useful in **gleet** or **chronicurethritis** with much relaxation and debility, and if anemia be present, it should be given in conjunction with iron. It is given in general irritation of the urinary passages from debility, and in **pyelitis** and **cystitis**, increasing the urinary discharge and relieving painful urination. In inflammation of the **respiratory tract** with excessive expectoration of thick and tenacious mucus, it may be employed to good advantage if the **balsam of copaiba** be given in ten drop doses three times a day. It is of assistance in curing eczema, urticaria, and other itching skin disorders. For persistent backache, Dr. Whitford combined two drams of the above with two ounces of the spirit of nitric ether, and **tincture of black cherry** to make three ounces. Of this he gave a dram once or twice daily.

## **CORALLORHIZA**

## ***Corallorhiza odontorhiza.***

Synonyms—Crawley; Coral Root.

This agent stood very high in the estimation of the fathers of the botanical school as a powerful diuretic and safe eliminative agent. It was considered the most active of all sweat producing remedies and so kindly was its action and so devoid of prostrating influences that it has later been considered superior to *jaborandi*. It was used in the early stages of prostrating fevers, and inflammatory troubles whatever the character. It was used in night sweats and hectic fever without debility. It acts well in the early stage of acute **pneumonia** and **pleurisy**, and given at the onset of a cold it is most prompt in its action in eliminating all the symptoms.

In the first stage of consumption where there is hacking cough, loss of weight, deficient appetite, while it acts slowly it overcomes the marked prostration and improves all the functional operations of the glandular organs.

Dr. Baker depended upon this remedy for the treatment of **meningeal inflammation**, nervousness, restlessness, and general feverish symptoms, as the agent is an active sedative as well as a powerful diaphoretic. It relieves bronchial irritation with wheezing and tightness in the chest.

Now at the present time when the importance of elimination is well understood and when its valuable effects are so plainly apparent, when properly conducted, this remedy should be freely used in order to determine by scientific means the amount of elimination secured and the actual substances removed, and the influence of such removal. The depressing effect of *jaborandi* or pilocarpine prevents to an extent such observations which can be safely made with this agent.

## **CORNUS.**

## ***Cornus florida.***

Synonym—Dogwood.

### **CONSTITUENTS—**

Cornin or cornic acid, resin, gallic acid, tannin.

### **PREPARATIONS**

**Extractum Corni Floridae** Fluidum, Fluid Extract of *Cornus Florida*.

Dose, from a half to two drams.

**Specific Medicine Cornus.** Dose, from five to sixty minims.

**Therapy—**This agent is indicated not only to correct the atonic

conditions of the glandular structure of the gastro-intestinal apparatus in malaria, but as an antidote to the malarial poison itself. It has marked control over many of the manifestations of malaria.

Its influence upon the stomach in these cases increases the appetite at once, improves the character of the digestion and relieves the drowsiness and dullness apt to follow imperfect digestion. It is a tonic in enfeebled conditions of the stomach from whatever cause and improves intestinal digestion.

## **YOHIMBE.**

### ***Corynanthe yohimbe***

Part Employed—The bark of the yohimbeye tree.

#### **CONSTITUENTS—**

Spiegel obtained an extract of the bark, which contained a pigment that forms, on standing in alkaline solution, two alkaloids, yohimbin and an amorphous substance. The former crystallizes in white needles with silky lustre, and is soluble to the extent of two per cent in water, and dissolves also in alcohol and chloroform.

The agent may be given in **infusion**, in the form of a **powdered extract**, or the **alkaloid yohimbin**. A **liquid extract** is also prepared. The dose is from .001 gm. to .015 gm, of the alkaloid—from the  $\frac{1}{60}$  to the  $\frac{1}{4}$  of a grain.

**Physiological Action**—The action of this agent seems to be exercised directly upon the sexual centers of the spinal cord, increasing tonicity and reducing excitability.

Oberwarth and Lowy made physiological experiments on animals with the alkaloid. After injections of 0.005 to 0.015 gm. in rabbits they observed a swelling of the testicles and epididymis and their descent into the inguinal canal. In dogs and cats the swelling affects rather the penis and may go so far as to cause painful erections.

The **hydrochlorate of yohimbin** is a local anesthetic, of considerable value. Used in a two per cent solution it benumbs the mucous membranes in two minutes. In five minutes they are markedly anesthetic, and in ten minutes the maximum degree of anesthesia is obtained. The anesthesia lasts from one-half to three-quarters of an hour and sensation is completely restored in an hour and a half. It does not

act upon the skin when applied. It must be injected.

**Therapy**—The current therapeutic journals of Austria and Germany have contained articles on the action of this remedy for the relief of impaired sexual function. Spiegel has made some important observations on its action. It has long been used in the form of a decoction by the natives, to increase sexual appetite. Impotence of functional origin seems to be directly influenced by it. Silberstein of Vienna says that in so-called **hypocondriacal impotence**, due to morbid stimulation of the inhibitory paths, as well as that produced by diminished excitability of the sexual centers, the agent is successful. Patients so afflicted become violent, and may be driven to desperation. In cases where there is a sudden failure of power, producing despondency, foreboding and general mental depression, in young married men, it is satisfactory. The knowledge of weakness has an inhibitory effect upon the exercise of the normal functional action of the organs in every field of their operation.

**Impotence** from onanism, or persistent **nocturnalemissions**, with loss of appetite, was cured by this remedy in a short time. Several other cases of a similar character were experimented on satisfactorily. In cases where the same weakness was present with **chronic alcoholism**, resulting in chronic **disease** of the **stomach** and enlargement of the liver, the agent had a satisfactory influence. Another case was cured, who, from **sexual neurasthenia**, had persistent headaches.

It has been useful in operations upon the eye, nose and throat. A one per cent solution injected is non-toxic. A writer in the Standard says that if a two per cent solution be dropped into the conjunctival cul-de-sac, from five to six times in fifteen minutes, it will produce both corneal and conjunctival anesthesia. The corneal anesthesia is more pronounced and lasts much longer than the conjunctival. The eye becomes immediately suffused and continues red for more than an hour after the last instillation. There is moderate but marked dilatation of the pupil, which will last from fifteen to twenty minutes. It will be found valuable in cataract extractions and iridectomy. It has also been found useful in the removal of the nasal turbinals, and granulations, and of polypi, from the post-nasal surfaces or from the ear.

Its great advantage is in its non-toxic properties, and that it does not cause the tissues to contract. The hyperemia it induces, however, is a disadvantage in some cases. It does not keep well and there is some danger of hemorrhage after an operation.

We should confirm or disapprove the observations that have been made of this remedy. If confirmed, the agent will be a valuable addition to our resources.

## **COTO BARK.**

**Origin**—The botanical source of coto bark is not certainly known, but it is supposed to be obtained from a species of *nectandra*, a tree growing in Bolivia.

### **CONSTITUENTS—**

A volatile alkaloid, volatile oil, resin, starch, gum, sugar, calcium oxalate, tannin, formic, butyric and acetic acids, cotoin, para-cotoin, oxyleucotin, leucolin, hydrocotin, dibenzoylhydrocotin, peperonylic acid.

### **PREPARATIONS—**

**Fluid Extract of Coto Bark.** Dose, from five to twenty minims.

**Specific Symptomatology**—Epidemic diarrhea, attacks occurring at night suddenly, or in early morning stools frequent, ten to twenty in a few hours; colliquative, rice-water stools, nausea and vomiting with great distress, sharp, cutting pain in the bowels, involuntary evacuations, extreme prostration, surface bathed in cold clammy perspiration, collapse, febrile reaction.

**Therapy**—It is a carminative, stimulant and astringent. It has a specific effect on the alimentary canal but is not a suitable remedy where inflammation exists or is threatened, but rather should be employed in relaxed states, and where some poisonous element has been taken into the system in the food or drinking water. It is antiseptic or promotes asepsis.

It acts favorably in the **diarrhoea** of **typhoid fever**, in colliquative diarrhea from whatever cause, in the diarrhea of consumptives and in atonic and catarrhal diarrhea.

It possesses astringent properties and contracts the relaxed vessels. It is one of our most efficient remedies in the exhaustive sweats of consumptive patients. It may be given in ten drop doses of the fluid extract, repeated according to the urgency of the case.

The best results have been obtained from rather large doses, and it is a good rule where relief does not follow the prescribed dose to increase it.

Dr. Edison of Indiana was quite enthusiastic on the action of *coto*. He claimed that there was not only an astringent but a positive nerve sedative influence from its action; that it controlled intestinal pain and soothed the nervous system, and in one case he thought that its influence amounted to a temporary paresis. The agent deserves further study.

## **CRATAEGUS.**                      *Crataegus oxyacantha.*

Synonyms—Hawthorn, Haw, English Hawthorn.

### **PREPARATIONS—**

Specific **Medicine Oxyacantha**; dose, from five to twenty minims.

**Fluid Extract Oxyacantha**; dose, from ten to fifteen minims.

**Normal Extract**; dose, from four to eight minims. It is given in water and may be repeated every hour or every two or three hours. In extreme cases it may be given hypodermically.

**Therapy**—This agent has not yet received much attention from the profession. Dr. Jennings, of Chicago, in October, 1896, published in the New York Medical Journal a letter containing the following statement:

“To this date I have successfully treated with *crataegus* one hundred and eighteen patients who were suffering with various forms of heart disease, not including fatty degeneration and tachycardia, and of the two latter forms of the disease. I have fourteen still under treatment.

“Of one hundred and fifty-seven reports from other physicians using the drug in their practice, all but nine are commendatory and favorable, and of the nine, eight of them discontinued its use because the medicine made them sick at the stomach, and the ninth, a physician, said it gave him a fullness in the head. If these latter had reduced the dose to five or six drops it would have had full therapeutic effect, and would have obviated the nausea, and they, too, could then have reported favorably.

“From these results my deductions are that *Crataegus Oxyacantha* is superior to any other of the well known and tried remedies at present in use in the treatment of heart disease, because it seems to cure while the



other remedies are only palliative at best.

“***Crataegus*** may be regarded as specific, or the nearest approach to a specific, in the following cardiac diseases: Angina pectoris, valvular deficiency, with or without enlargement, endo-myocarditis and pericarditis, tachycardia, rheumatism (co-called) of the heart, cardiac neuralgias, from whatever cause, palpitation, vertigo, apoplexy, dropsy, and functional derangements.

“The dose of ten to fifteen drops, heretofore announced, is too much, and a dose of from four to eight drops, four times a day, is to be substituted.”

Jennings advises the use of tonics and auxiliary agents to meet the indications in extreme cases of heart disease, where a long train of symptoms has developed from the imperfect circulation and deficiency of oxygenation of the blood. He says in treating heart disease, he was strikingly impressed with the rapidity with which cardiac dropsy disappeared under the influence of ***crataegus***. From this he was naturally led to believe that the same treatment would be equally efficacious in dropsies not of cardiac origin, and he now confirms, clinically, this obvious conclusion. He has also used ***crataegus*** with the greatest of success in albuminuria or Bright's disease, and in diabetes mellitus and insipidus.

Dr. Joseph Clements, of Kansas City, Mo., wrote to Dr. Jennings for information concerning the remedy, and began taking it. The report of his ease was published in the Kansas City Medical Record in April, 1898.

It was an extreme case of angina pectoris, with regurgitation, edema and a train of symptoms that pointed to immediate dissolution. After using ***Cactus*** and other well known heart remedies without result, he obtained some of Jennings' fluid extract, and was cured in a few weeks, with permanent relief from the pain.

Dr. Clements believes that his experiments have shown that the drug also has a wonderfully solvent power on crustaceous and calcareous deposits in the lumen of the arteries, resembling the effect of iodide of potassium on the nodes of syphilis.

He says further, “a drug whose physiological action and therapeutic power are solvent and absorptive to the diseased accumulations, and tonic and stimulative to its nutritive nerve supply, must approach the

nature of a specific as near as anything can approach it, in the disease under discussion.”

Some observers claim that the use of this remedy in aged persons, with arteriosclerosis, angina pectoris, etc., will prolong their lives beyond the time when dissolution would have been certain had those conditions remained.

What would be the effect of the medicine in fatty degeneration, atheroma, etc., I am not prepared to say. I think further observation will be necessary before it would be safe to go far with it. In small doses, however, its tonic effect upon the nerve supply, I think, could not be otherwise than helpful.

In beginning heart mischief after attacks of inflammatory rheumatism we will find a promising field of usefulness for this new remedy.

Those who have since used the remedy believe it to be a true heart tonic and restorative and capable of exercising an immediate soothing and strengthening influence upon that organ, thereby improving the circulation, and augmenting oxygenation of the blood. Future experience will determine its merit. I will now say, as I did in 1907, this remedy, although of great service in selected cases, when used in combination with *cactus* or other heart agents, when used alone has hardly met the anticipations of those who were carrying out the suggestions of the original introducers of this remedy. It will meet a few indications satisfactorily. I have prescribed it in the **heart weakness** with valvular murmurs, great difficulty in breathing, persistent sighing respiration, which accompanies **neurasthenia** or nervous weakness, brought on in young people, from violent overstrain, or prolonged extreme nervous tension. The results of the sudden breakdown, being similar in every way to other cases of neurasthenia.

One case was completely cured in about six weeks, by the use of this remedy, and the arsenate of strychnia. The valvular murmurs showed a progressive decrease until they had disappeared entirely, as did also the extreme sighing and difficult respiration. Other cases complaining of heart irregularity with mild valvular trouble, have been materially benefited by *crataegus*.

That it has an important place in our therapeutics, we have no doubt, but its exact place is not yet determined.

Dr. Jernigan experimented very extensively with *crataegus* and believes it is superior to many heart remedies when correctly prescribed. He believed it to have a broader field of action; no accumulative effect; no toxic influence; no contraindications, and acts in harmony with the other remedies.

It has a general curative effect upon the functional action of the central nervous system; upon every part of the circulatory apparatus; upon the urinary organs, and the processes of metabolism. It dispels gloomy forebodings, increases the strength, regulates the action of the heart, causes a general sense of well being. In its mental influence he thinks he sees a resemblance to the action of *pulsatilla*, and very often prescribed the two remedies in conjunction.

The doctor is sure he has seen excellent results from *crataegus* in the treatment of **diabetes insipidus**, especially in children, a difficult condition to control. He has used it also in **exophthalmic goiter** with good results. He gave ten drops of the specific medicine every two hours for a while, controlling a form of epilepsy that showed itself with the other symptoms. He believes the remedy given for diabetes influences innervation, improving the circulation, especially in the capillaries when there were cold extremities. All of his cases confirmed his faith in the remedy as an important one for this condition.

Dr. Dwire, of Ohio, in his report confirms all of Dr. Jernigan's statement in its action directly upon the heart.

Dr. Sharp, of Ohio, says that he finds *crataegus* indicated in the usual diseases of the heart, and gives it in conjunction with the very best possible treatment to put the system into normal condition with proper diet and attention to the action of the skin, kidneys, and bowels. He reports three cases of serious heart disease in patients above 78 where the results were highly satisfactory.

Dr. Stouffer, of Pennsylvania, suffered from a number of mild attacks of **paralysis of the left side**. The heart was directly influenced; oppression heavy; constriction of the throat; all symptoms increasing by exertion. He combined *ceataegus* and *scutellaria*, two parts of the former to one part of the latter, adding oil of *peppermint*, a few drops for the flavor. Of this he took a drop or two on his tongue very often, or as needed, obtaining relief, not secured by any other measure.

A greatly **enlarged heart** in a young man of sixteen with the symptoms usually present in older patients with **precordial bulging** was permanently benefited until a permanent cure seemed to be possible, by five drop doses of *crataegus* every three hours persisted in, over a period of several months.

Dr. Osborne cured himself of a peculiar **asthmatic** difficulty of the spasmodic type. He had enlargement of the right side of the heart, the oppressed breathing at times being very severe. In a paroxysm, he took eight drops of *crataegus* every fifteen minutes with almost immediate relief. There was no complete cure but much benefit.

Young women, who from any cause suffer from mitral insufficiency, especially if rheumatism is present or the conditions that lead to it, may be cured by proper care and the use of five drop doses of *crataegus* three or four times a day.

## **CROCUS.**

## ***Crocus sativus.***

Synonym—Saffron.

### **CONSTITUENTS—**

Crocin, volatile oil, picrocrocine (saffron bitter), gum, wax, fat, albumen.

### **PREPARATIONS—**

**Tincture Croci**, Tinctura Croci, Tincture of Saffron. Dose, from one to three drams.

**Tinctura Serpentariae Composita**, Compound Tincture of Serpentaria. Dose, from ten to sixty minims.

**Therapy—Saffron tea** was long in good repute among the grandmothers of our older men as an essential remedy to start new-born babes in normal health channels. It was thought necessary to encourage the action of the liver and to cleanse the intestinal canal and stomach. It was positively indicated, if the skin was yellow and **infantile colic**.

It has mild **diaphoretic**, stimulant, **antispasmodic** and tonic properties. It may be given in the early stages of fevers, and especially in **eruptive fevers**, in full doses if there is a retrocession of the eruption.

It checks mild cases of irregular **uterine hemorrhage**, menorrhagia or metrorrhagia, and encourages the lochial discharge when suppressed after confinement.

**CUCURBITA.**                      *Cucurbita citrullus.*

Synonym-Watermelon.

**CONSTITUENTS—**

Fixed oil, mucilage, sugar.

**PREPARATION—**

**Fluid Extract of Watermelon Seed.** Dose, one dram.

**Therapy—**The juice of the fruit is a **diuretic** with many individuals, producing a cooling sense of relief from heat or **aching** across the kidneys, or throughout the **urinary apparatus**. The seeds in the form of an infusion act promptly with children, relieving **pain** in the **passage of urine** and stimulating the flow of water. When male infants cry with every urination and the diaper is stained yellow, this remedy will correct the condition promptly. In those conditions accompanied with a general sense of constriction, or **backache** from the passage of urates and phosphatic gravel, this remedy exercises a direct soothing influence, not only upon the renal organs, but upon the **bladder**, especially when the **irritation** persists, warding off subsequent **inflammation**. It is also very useful during the active stage of **cystitis**.

**CYPRIPEDIUM.**                      *Cypripedium pubescens.*

Synonym—Yellow Ladies' Slipper.

**CONSTITUENTS—**

Volatile oil, volatile acid, two resins, starch, fixed oil, sugar.

**PREPARATIONS—**

**Extractum Cypripedii Fluidum**, Fluid Extract of Cypripedium.

Dose, from ten to thirty minims.

**Oleo-resin of Cypripedium.** Dose, from one to three grains.

**Specific Cypripedium.** Dose, from five to sixty minims.

**Administration—**It must be given in rather large doses. A preparation of the fresh root should be employed, as it loses its properties by drying.

The best results have been reported when doses of fifteen grains of the powdered root have been given, but from one to four grains every three or four hours is usually sufficient to relieve the nervous symptoms of typhoid fever.

**Specific Symptomatology**—The conditions in which this agent has been used may be summed up as follows: Nervousness, restlessness with constant change of position, irascibility, abnormal excitability, sleeplessness, nervous irritation from atony, neuralgia, delirium, nervousness of infants, hypochondriasis, morbid sensitiveness of the eyes, nervousness from long illness, abnormal irritability, nervousness from over-exertion of the mind, hysteria, delirium tremens, nervous headache, nervousness from gastro-intestinal irritation, irritation of the brain in young children with threatened convulsions.

**Therapy**—*Cypripedium* exercises a special influence upon **nervous conditions** induced by or depending upon disorders of the **female genito-urinary organs**. **Hysteria, melancholia**, restlessness with morbid excitability, sleeplessness, and pain from **general hyperaesthesia** induced by uterine or ovarian disorder will be benefited by this remedy. It will also relieve mental depression from spermatorrhea and venereal excesses, acting somewhat like *pulsatilla*.

With children it allays **cerebral hyperaemia** from teething, irritation of the brain in scrofulous children, with nervousness and sleeplessness, and irritation in cases in which the mental faculties are prematurely developed.

It may be used in morbid vigilance, and jactitation in **typhoid fever, typhomania** and great sinking of the vital powers in adynamic fevers, also where there is morbid depression from chronic dyspepsia.

*Cypripedium* stimulates the nervous system in a moderate degree, and is suitable for cases where nervousness is the chief feature. It will relieve pain where restlessness and nervousness are associated with headache or neuralgia. Under its influence these patients become cheerful, and the nervous agitation disappears.

The action of *cypripedium* is feeble, and relieves only functional derangement.



## PREPARATIONS—

**Extractum Stramonii Seminis**, Extract of Stramonium Seed. Dose, from one-sixth to one-half grain.

**Unguentum Stramonii**, Stramonium Ointment.

**Extractum Stramonii Seminis Fluidum**, Fluid Extract of Stramonium Seed. Dose, from one to five minims.

**Specific Medicine Stramonium**. Dose, one-fourth to ten minims.

**Physiological Action**—The action of *stramonium* on man is similar to that of *belladonna*. Moderate doses increase the frequency and fullness of the pulse, with dizziness and perspiration; a larger dose (five grains of the powdered leaves) causes nausea, thirst, dryness of the throat, difficulty of speech, dilatation of the pupils, fever, relaxation of the bowels and increase of urine; a poisonous dose causes delirium, with laughter, loquacity, violent striking and biting, with grotesque hallucinations.

Daturine acts more powerfully than atropine, though its action is regarded as identical. The resemblance between *stramonium* and *belladonna* is a very close one.

*Stramonium* is a narcotic poison, a stimulant to the nerve force in its direct effects, and profoundly so in its influence upon the sympathetic nervous system.

**Therapy**—In proper doses it acts as a sedative and anodyne in a manner similar to *hyoscyamus*. It is a remedy for **excitable mania** and **acute delirium**, with violent uncontrollable tendencies. It has been given in epilepsy for its soothing and tranquilizing effect, but its antispasmodic influence is not sufficiently great to place it among the agents for this disorder.

It has been given in **neuralgias** wherever located, and in **neuralgic dysmenorrhea**. In **hysterical mania**, accompanied with **convulsions**, epileptiform or other convulsions, it is an excellent remedy. In small doses it will remove the globus hystericus.

It is credited with controlling the contractions and pain in approaching **miscarriage** and abortion, and preventing those accidents.

In the treatment of that condition usually known as **milk sickness** in malarial localities, Kiplely claims to cure all cases with the freshly bruised seeds of *stramonium*, giving as many as from fifteen to thirty seeds



every two hours. To the animals who contract the disease, a teaspoonful of the seeds is given three or four times daily with satisfactory results.

He also gives it in the **painful menstruation** of women with good results, giving fifteen bruised seeds every few minutes until the pain is relieved, then farther apart.

As an ointment it has been long applied to inflamed swellings and to **glandular inflammations** and in **painful hemorrhoids**. It is useful in **mastitis, orchitis, parotitis**, in **rheumatic inflammations**, and as a fomentation in these latter conditions, and in **pleuritis** and **peritonitis**, using caution not to obtain too marked cerebral effects.

In **muscular tremblings** it is indicated, especially if of functional or reflex origin. In the vertigo and unsteadiness from chronic indigestion or disordered stomach from hyperacidity and in headache from this cause it is the remedy.

In spasmodic or paroxysmal **cough**, as whooping cough, and in the violent paroxysms of acute bronchial cough, it is a soothing remedy, as it acts without suppressing secretion as actively as *belladonna*.

Because of its antispasmodic influence upon **spasmodic asthma**, it has come into general use as an agent in that disease, used principally as an inhalant. The dried leaves are burned and the fumes are inhaled and relief is immediate. The dried root in coarse powder as well as the powdered leaves may be smoked in a common tobacco pipe.

This use of the agent produces excessive expectoration, and also marked nervous phenomena, such as vertigo, nausea, determination of blood to the brain and stupor. In plethoric patients these induced symptoms are sometimes violent and even dangerous. It is sometimes burned in conjunction with potassium nitrate, to enhance its effects.

## **STAPHYSAGRIA.                    *Delphinium staphysagria.***

Synonym—Stavesacre.

### **CONSTITUENTS—**

Delphinium, Delphinoidine, Delphisine, Staphysagrine, fixed oil, volatile oil, malic acid, mucilage.

## **PREPARATIONS—**

**Tinctura Staphysagriae**, Tincture of Staphysagria. Dose, from five to fifteen minims.

**Specific Staphysagria**. Dose, from one-sixth to three minims.

**Physiological Action**—This has not been definitely determined. Taken internally it acts as an irritant, causing vomiting and purging. Absorbed into the circulation it causes convulsions and loss of sensation and motion; the action of the heart and respiration is lessened and death is caused by paralysis of the spinal cord and asphyxia. It first contracts and then dilates the pupil. The agent is a permanent stimulant, resembling *nux vomica* somewhat and acting in harmony with *avena sativa*, *cactus* and *zanthoxylum*. It will act in harmony with *hydrastis*, which agent will intensify its influence. It relieves **mental depression**, and should be given in **hysteria** and **hypochondriasis**, where there is melancholia, despondency, and a general depression, Scudder says, especially if accompanied with violent outbursts of passion.

**Specific Symptomatology**—This agent exercises a stimulant and tonic influence upon the central nervous system, and is especially valuable in sexual disorders accompanied with melancholia, hypochondria, and hysteria, especially if there be outbursts of passion and a tendency to moroseness.

**Therapy**—Specifically considered this agent is a remedy for **prostatic disease**. It is not curative in the entire range of disease of the prostate, but is of much importance in assisting other indicated remedies. **Prostatorrhoea** is within the direct sphere of its influence. It should be used and persisted in in this condition. While not alone curative in **spermatorrhoea**, the complete cure depends upon the action of this remedy in many cases, combined with others. In **gleet**, the agent must not be omitted.

It relieves irritation of the **prostate gland**, **testicles**, and **vesiculae seminales**, overcomes **impotency**, and increases sexual power. It arrests the excessive prostatic discharge and muco-purulent discharges from the urethra and is valuable in old standing cases of **gleet**, often curing otherwise intractable cases, and in **dysuria**, especially if accompanied with feebleness in expelling urine, with the above specific indications. It may be given alternately with *kava-kava*.

It soothes the nervous excitement consequent upon these genito-urinary

or uterine disorders and is prompt and permanent when prescribed directly.

I have used it to good advantage with *avena* and *saw palmetto* in **impotence**, especially that occurring in men who have been excessive and dissipated in their habits, appearing usually about the age of forty-five.

Blake has used this remedy in **prolapsus of the bladder walls**, where a radical operation was impossible and where the long train of symptoms were exceedingly distressing. The remedy was given internally and used externally in the form of a saturated glycerole on tampons.

The agent has been advised in **facial** and **cervical neuralgia**, and has been given in scrofulous disease of the eyes, in **amaurosis**, **ophthalmia**, and in those conditions of the eyes, accompanying neurasthenia, where black spots or floating particles appear before the eyes.

The agent must be persistently used, to be appreciated.

Five drops of *specific staphysagria* in two ounces of water, a teaspoonful every two hours it is said, corrects many cases of **night sweats** in phthisis. If the symptoms should increase after its use, the dose should be decreased.

King recommends *staphysagria* to be used externally for the destruction of lice. Equal parts of the fluid extract and cologne water have been used successfully in cases of *pediculus pubis* and *pediculus capitis*.

## **CORYDALIS.**                      *Dicentra canadensis*

Synonyms—Turkey corn, squirrel corn. (*Corydalis formosa* was the incorrect latin name given by Ellingwood)

### **CONSTITUENTS—**

Corydalin, fumaric acid, bitter -extractive, acrid resin, starch, volatile oil.

### **PREPARATIONS—**

**Corydalia** (hydro-alcoholic extract). Dose, from one-half to one grain.

**Extractum Corydalis Fluidum**, Fluid Extract of Corydalis. Dose, Ellingwood's American Materia Medica, Therapeutics and Pharmacognosy - Page 170

from half a dram to one dram.

**Specific Medicine Corydalis.** Dose, from five to forty minims.

**Physiological Action**—In overdoses it has produced biliousness, deranged stomach, an excessive secretion of mucus, or catarrh of the stomach and intestinal canal, loss of appetite, indigestion, fetid breath, irregular bowels and colic, with malaise and general indisposition to exertion.

This agent was in great repute among very many of our older physicians as an alterative of special value. Tonic properties are so evident in it that the patient's vitality is increased while the metabolism of the system is influenced. In this particular it will operate in harmony with *echinacea*. In some cases it acts well with *berberis*, *hydrastis*, and *stillingia*. In syphilis, scrofula, and in all glandular derangements with general depravity of the system, marked blood dyscrasia and general impairment of the nutritive functions, this agent is indicated.

Its influences are demanded in these cases more especially if there be tumidity and enlargement or distention of the abdominal structures with general atonicity, or in some cases in which there are persistently coated tongue and fetid breath. This is often the condition in which a patient is found following a protracted attack of intermittent fever—ague, and since the entire glandular system has become sluggish from the disease the tonic effects of this agent are here indicated. Its influence can be greatly heightened by the direct nerve tonics and *calisaya* in such cases as these.

**Therapy**—When blood **dyscrasia** is present, sluggishness of the digestive apparatus, deficient glandular secretion, impaired secretion of the mucous membranes of the stomach and intestinal canal, this agent is indicated, as, in these cases, its tonic properties are plainly manifested.

It is of value in imperfect restoration of these functions after protracted disease, on which it operates with the tonic and restorative stimulants to an excellent advantage.

**Amenorrhea, leucorrhoea and dysmenorrhoea**, with relaxed condition of the uterine supports and prolapsus, sometimes occurring from the extreme debility following severe fevers, and common, also, with scrofula and other blood dyscrasias, are all materially benefited by *corydalis formosa*.



heart muscle by decreasing its normal nutrition.

When given in frequent small doses, where absorption is immediate, it influences all of the organic functions as a depressant; it produces irritation of the stomach and bowels, increased action of the kidneys, and a marked change in the character, regularity and frequency of the pulse beat. The influence upon the heart is not always uniform in all such cases, but variable and often unreliable. The influence is marked and more immediate if a large dose is given and repeated a few times. The gastric and intestinal irritation is greatly increased, there is purging, violent vomiting, great prostration with dicrotic or tumultuous, irregular, erratic and uncertain heart action.

In its general irritating influence upon organic function it may cause so marked an impression upon the renal circulation as to result in spasm of the vessel walls and suspension of renal action-suppression of urine with profound albuminuria.

**Therapy**—*Digitalis* is the direct heart stimulant. Its influence is sure and plainly apparent in marked sthenic conditions. In **prostration** or profound weakness, in sudden failure from violent injury, from **surgical shock** or from **acute poisoning**, or in the crisis of extreme exhausting or protracted disease, its influence given in conjunction with general stimulants is decisive and satisfactory.

The agent sustains the action of the heart, but does not impart tone as *cactus* does, by increased nerve force and improved nutrition of the organ. Its sustaining power can be maintained by proper administration until other measures supply deficient power, by encouraging reaction, or by general improved nutrition.

The influence of *digitalis* in its stimulant effect is nearly diametrically opposed to that of *aconite*. In therapeutic action the two agents occupy the opposite extremes. For this reason *digitalis*, within the limits of its stimulant action, is a physiological antidote to *aconite*.

*Digitalis* slows a rapid and feeble pulse in **asthenic fever**. It is a sedative in fevers under those circumstances in which *aconite* is contra-indicated. In prolonged cases where asthenic conditions prevail, and where the temperature remains high, with rapid, feeble, easily compressed pulse or irregular heart action, all the evidences of failure of vital force, *digitalis* is the fever remedy. It controls the pulse, reduces the

temperature somewhat, and im. proves the heart action. *Aconite*, *veratrum* and the synthetic antipyretics will all increase the condition under such circumstances and are contraindicated.

In **pneumonia**, when the disease processes have had full sway, and the heart is unable to properly fill the pulmonary capillaries, and is depressed by the influence of the general disorder, and the general effects of the accumulated carbonic acid within the blood, and is labored and overtaxed and apparently slowly failing, this agent is directly useful. It promptly strengthens the heart and the nervous structure of the pulmonary apparatus at the same time.

In minute doses in children, if it be given with *belladonna* or other heart stimulants, it shows a most desirable influence in this class of cases, but should be stopped as soon as these results are obtained, that no untoward symptoms may occur.

*Digitalis* is a remedy for **passive congestion** where the blood stasis has occurred from feebleness and failure of the circulatory organs. It exercises a stimulating influence upon the entire apparatus; through its power of increasing heart action it imparts renewed force and an improved capillary tonus in every part. In such cases its influence resembles that of *belladonna*, although not so marked nor permanent.

In **valvular diseases** of the heart, with muscular relaxation and feebleness, it is a good remedy, but not always the best. It sustains the power for a time in those cases where there is **stenosis**, and where compensatory dilatation has previously occurred. In feeble, irregular and **intermittent heart** it is frequently prescribed with excellent results.

Like *cactus*, it is not a remedy for violent heart action from over action of the nervous system, or from sthenic conditions.

*Cactus* is valuable, indeed, in irritable heart from indigestion; in palpitation and irregular action from gastric irritation, while in this case *digitalis* exercises no beneficial influences whatever. On the contrary, it is apt to increase the gastric irritation. *Cactus* soothes the irritable stomach and promotes normal functional operations.

*Digitalis* is not found in the urine and does not directly influence the secretory or the excretory functions of the kidneys. Its apparent influence upon these organs is. due to the improved blood pressure from its direct

influence upon the heart, inducing increased heart action. **Renal congestion** is overcome because the increased heart impulse drives the blood through the renal capillaries with renewed vigor, and there is thus a copious flow of the urine from improved renal circulation. Under these circumstances only, is it a valuable remedy in dropsy. In **cardiac dropsy** it acts most promptly if given in infusion in small and frequently repeated doses. Close watch must be kept for cumulative action. In dropsy from **post-scarlatinal nephritis**, a dram or two of the leaves in a pint of water is thoroughly steeped. Of this from a teaspoonful to a tablespoonful may be given every two or three hours.

In general dropsy from heart disease there is deficient capillary circulation, especially when lying down; the pulse is irregular, intermittent and feeble, the urine is small in quantity, with a large percentage of albumen. Its power over the heart influences this entire train of symptoms directly. Patients taking *digitalis* in full doses for an immediate effect should remain in the recumbent position. This position greatly favors its sedative and tonic action, and patients have died upon being raised to a sitting posture immediately after taking an extreme dose of this agent. Syncope, especially in children, is common at such a time. The profound influence of the remedy prevents the occurrence of the natural change in the action of the heart, from a prone position to the sitting posture. *Digitalis* may exercise no apparent influence upon the system when proper doses are given regularly for some days, until suddenly violent poisonous effects may appear, with irregular and greatly depressed heart action, vertigo, extreme wakefulness, vomiting, irritation of the bowels, with pain and sometimes violent purging.

The cause or manner of its accumulation is variously explained and is not well understood. Several theories are advanced, none of which are satisfactory. No other heart remedy has these objections. Cumulative action often shows itself first by the influence of the agent upon the kidneys, in suspending or restraining their action. Consequently if desirable results from the use of this agent do not appear, and there is a decrease in the quantity of urine passed, the agent should be suspended, at least for a time.

## **DIOSCOREA.**

## ***Dioscorea villosa.***

Synonym—Wild Yam.



**CONSTITUENTS**—Saponin.

**PREPARATIONS**—

Dioscorein. Dose, from one to four grains.

**Specific Medicine Dioscorea.** Dose, from one to forty minims.

**Physiological Action**—Antispasmodic and anodyne.

**Specific Symptomatology**—In sudden spasmodic **griping** pain in the stomach and bowels it acts similarly to *colocynth*, but is more certain in the severer cases, especially if from malarial causes. It is specific in **bilious colic**—in the pain of the passing of **gall stones**, in mild cases, and is valuable in spasmodic colic of any kind. Spasmodic pain yields to it readily, but it is much more certain in pain and muscular spasm of the intestines. Its action produces either immediate or negative results. If, therefore, there is no benefit after one or two hours' use it may be discontinued.

**Therapy**—In the spasmodic pain of cholera morbus or cholera infantum, of diarrhea or dysentery it is useful.

In **neuralgicdysmenorrhea**, in **ovarian neuralgia**, in **cramp-like pains** in the uterus at any time and in severe **after pains** it often acts satisfactorily, quickly relieving the muscular spasm. Fifteen drops of the tincture of the specific *dioscorea* in half a teacupful of hot water should be drunk at a single dose, as in acute cases it is much more certain if given in this manner. Five drops every hour or two can be given with good results in constantly recurring mild **colicky pains** without apparent cause. When given for after pains it is usually best to give the tincture in ten drop doses in cold water every half hour or hour, as the hot infusion may cause too great relaxation of the uterine muscular structure, and permit severe hemorrhage.

**DROSERA**

***Drosera rotundifolia***

Synonyms—Sundew, Youthwort, Lustwort.

**PREPARATIONS**—

**Fluid Extract Sundew**; not miscible with water; dose, five to twenty minims.

**Specific Medicine Drosera**, two to five minims. An excellent and potent preparation.

**German Tincture Sundew**; an imported preparation, from the green plant; dose, fifteen to sixty minims.

**Specific Symptomatology**—The field of the influence of this remedy is narrow. It is specific to dry, irritable, persistent cough; also cough of a hoarse, resonant, explosive, or spasmodic character, without secretion.

**Therapy**—It is an antispasmodic, expectorant, and sedative as applied to such coughs. It will also relieve coughs of sympathetic origin, and so-called nervous coughs. It will cure the **cough of measles** more quickly than other remedies, and it will cure the after-cough of **whooping-cough**. It will terminate a whooping-cough and leave the patient free from cough, when the active stage of the disease has passed. If there is a deficiency of bronchial secretion it will be found of service during the progress of whooping-cough, modifying the paroxysms of the disease; they, occurring less frequently.

It is serviceable in all chronic coughs of a dry, irritating character, especially if the central nervous system be irritated. It is of service in **chronic bronchitis** and in **phthisis pulmonalis**.

It has also relieved **asthmatic coughs**, with nervous irritability. It has been used in a few cases as a sedative and tonic in irritable conditions of the **stomach**, relieving **flatulence** and curing mild cases of **gastric ulcer**.

## **DUBOISIA.**

### ***Duboisia myoporoides.***

Synonym—Corkwood Elm.

#### **CONSTITUENTS—**

An alkaloid Duboisine similar to hyoscyamine and atropine. Dose,  $\frac{1}{130}$  to  $\frac{1}{50}$  grain, usually administered hypodermically.

#### **PREPARATIONS—**

**Extractum Duboisiae**, Extract of Duboisia. Dose,  $\frac{1}{4}$  to  $\frac{1}{2}$  grain.

**Extractum Duboisiae Fluidum**, Fluid Extract of Duboisia. Dose, from two to ten drops.

**Physiological Action**—*Duboisia* is similar in many respects in its influence, to *stramonium*, *hyoscyamus* and *belladonna*. It produces

dryness in the mouth and constriction in the throat, with difficult deglutition. It increases the pulse rate and arterial tension, increases the capillary circulation in the skin, with flushed face like *belladonna*. The pupil dilates, there is a sensation of fullness in the head, with tinnitus aurium, vertigo, nervous excitement and muscular uncertainty. These conditions are followed by mental inactivity and stupor, with general quiet, although the patient may not sleep.

**Therapy**—The agent has not been extensively used for internal administration. It soothes the respiratory apparatus, increases the action of the heart, like *belladonna* in congestions, and is given to control excessive night sweats.

It has been given in some cases of **maniacal excitement**, but it must be given in the enfeebled cases and not when there is fullness—engorgement of the circulation of the cerebral organs. It has been used in the treatment of **emotional insanity** and **delirium** with excitement. Duboisine is given in doses of from  $\frac{1}{120}$  to the  $\frac{1}{60}$  of a grain in these cases, and is said to be a valuable hypnotic. In a few insane patients, especially those with hysterical manifestations, it has caused regurgitation of the food. It is also used in **muscular tremblings**, **paralysis agitans** and **epilepsy**.

There are a few patients who are especially susceptible to its use and will experience vertigo, fullness of the head, a feeling of danger and heart pains, even from small doses, or from a single drop of a one per cent solution in the eye.

*Duboisia* has been used as a **mydriatic**. It has no properties not possessed by atropine, although it is claimed to produce its effects in paralyzing accommodation and dilating the pupil more rapidly, with less conjunctival irritation and with more speedy recovery.

The hypodermic injection of duboisine will antagonize the influence of opium or morphine as effectually as atropine.

## **ELATERIUM**

## ***Ecballium elaterium.***

Synonym—Squirting Cucumber.

## **CONSTITUENTS—**

Elaterin, prophetin, ecballin, hydroclaterin, elaterid, chlorophyll.

**PREPARATIONS—**

**Trituratiæ Elaterii**, Trituration of Elaterin. Dose, grain one-half.

**Specific Medicine Elaterium**. Dose, one-third to fifteen minims.

The specific medicine is one of the most energetic of all ordinary preparations. It precipitates upon addition to water, and to avoid a concentrated dose, a mixture must be thoroughly shaken each time before administration. It has a characteristic clear green color.

**Physiological Action**—Hydragogue cathartic, diuretic. Large doses may kill by causing inflammation of the stomach and bowels.

**Therapy—Dropsies** of a general character are relieved at once by *elaterium*. It produces such hydragogue action as to at once unload the cellular tissues, of serum. It produces such gastro-intestinal irritation, however, in excessive doses, that caution must always be exercised in its administration. If violent vomiting is produced, its influence upon the dropsy is not marked. It exercises a powerful derivative influence and is a depleting agent of marked potency. It is in almost universal use in the treatment of dropsy among old school physicians.

In the treatment of **cystitis**, *elaterium* in small doses is used with excellent results by many physicians.

Both King and Scudder recommended it in chronic and acute cystitis and in nephritis, especially in inflammation of the neck of the bladder. They produced its hydragogue action for its derivative influence first, by half drachm doses of the tincture until its full influence was obtained, subsequently they gave smaller doses. Recent authorities claim cures of a satisfactory character by the use of from ten to twenty drops of the specific remedy in four ounces of water, a teaspoonful every two or three hours. It is deserving of extended trial.

**ECHINACEA.**

***Echinacea angustifolia.***

Synonym—Black Sampson, cone flower, purple cone flower.

**PART EMPLOYED**—The root.

This plant grows throughout the central and western portions of the United States, especially on the elevated tablelands, and in the northern portions, where it was known to the Indians as a cure for snake poison.

There is considerable confusion concerning the identity of the active medicinal species of *echinacea*. The *echinacea purpurea* of the Eastern States has been thought to be identical with the *echinacea angustifolia* of the Western States. It is often used for the same purposes, but is universally disappointing. King introduced it into his dispensatory as *rudbeckia purpurea*.

#### **PREPARATIONS—**

**Fluid Extract** of the root, miscible with water without material precipitation. Dose, one-fourth to one-half fluid dram.

**Specific Medicine Echinacea.** Dose, five to forty or even sixty drops.

**Echafolta** is a purified, assayed form of Echinacea. The dosage of both is the same. Externally or for surgical purposes it is advised as superior to the other preparations of Echinacea. It is prescribed for the same conditions.

For from twenty to twenty-five years, *Echinacea* has been passing through the stages of critical experimentation under the observation of several thousand physicians, and its remarkable properties are receiving positive confirmation. As yet, but few disparaging statements have been made. All who use it correctly fall quickly into line as enthusiasts in its praise; the experience of the writer is similar to that of the rest, the results in nearly all cases having been satisfactory. The laboratory observations have been extensive but are not yet complete.

**Physiological Action—**The following laboratory observations of its action upon the blood were made by Victor von Unruh, M.D., of New York City

More than one hundred blood counts were made in cases of infectious diseases, mainly in tuberculosis. The results showed that *echinacea* increases the phagocytic power of the leukocytes; it normalizes the percentage count of the neutrophils (Arneeth count). Hyperleukocytosis and leukopenia are directly improved by *echinacea*; the proportion of white to red cells is rendered normal; and the elimination of waste products is stimulated to a degree which puts this drug in the first, rank among all alteratives. The stimulation toward phagocytosis become very evident in cases where it was impossible to find any evidence of phagocytosis before *echinacea* was administered, and where after the use

of this drug for a period of only a few days the phagocytes were seen to contain as many as eight bacilli within the cell. In all cases where the percentage count among the neutrophiles (polymorphonuclears) has been such as give an unfavorable prognosis inasmuch as those neutrophiles containing one and two nuclei predominated over those containing three, relatively and absolutely, the administration of *echinacea* for only two weeks has normalized the percentage so as to give to the class containing three nuclei the absolute and relative majority over those containing one and two nuclei. *Echinacea* thus gives to the class normally strongest in phagocytosis the power where it obtains in the normal condition of the leukocytes. "**Subculoid Echinacea**" was used for these experiments.

I have long been assured from the observation of this remedy that it directly influences the opsonic index. I wrote von Unruh directly, asking him for his opinion from his long experience and from his laboratory observations of the action of this remedy. He replied as follows: "Quoting from McFarland's Pathogenic Bacteria, the opsonic theory teaches that the leukocytes are disinclined to take up bacteria unless they are prepared for phagocytosis by contact with certain substances in the serum, that in some manner modify them. This modifying substance is the opsonin. I have definitely demonstrated and am continuing to observe, that the action of *echinacea* on the leukocytes is such that it will raise phagocytosis to its possible maximum." The logical deduction, therefore, is that the opsonic index is correspondingly raised by this agent.

When a half teaspoonful dose of the tincture is taken into the mouth, a pungent warmth is at once experienced which increases to a tingling, and remains for half an hour after the agent is ejected. It is similar to that of *aconite*, but not so much solely of the nerve-end organs. The sensation is partly of nerve tingling, and more from an apparent mild nerve irritant effect. It much more resembles the action of *zanthoxylum*. If a small quantity be swallowed undiluted, it produces an apparent constriction of the throat, sensation of irritation, and strangulation, much greater in some patients than in others, and always disagreeable. The sensation persists for some minutes, notwithstanding the throat is gargled, water is drunk, and the agent entirely removed.

The toxic effect of this agent is manifested by reduction of temperature, the frequency of the pulse is diminished, the mucous membrane becomes dry and parched, accompanied with a prickly sensation; there is

headache of a bursting character, and a tendency to fainting is observed if the patient assumes an erect posture. After poisonous doses, these symptoms are more intensified. The face and upper portion of the trunk are flushed, there is pain throughout the body, which is more marked in the large articulations. There is dimness of vision, intense thirst, gastric pains followed by vomiting and watery diarrhea. No fatal case of poisoning is recorded, to our knowledge, and only when given in extreme doses are any of the above undesirable influences observed.

The physiological effects are manifested by its action upon the blood, and upon the mucous surfaces. The natural secretions are at first augmented, the temperature is then lowered, the pulse is slowed, and the capillary circulation restored. It exerts a peculiar affinity over local debilitated inflammatory conditions, attended with blood dyscrasias. It has its greatest field in adynamic fevers, reducing the pulse and temperature and subduing delirium.

It promotes the flow of saliva in an active manner. The warmth and tingling extend down the esophagus to the stomach, but no further unpleasant influence is observed. In a short time diaphoresis is observed, and the continuation of the remedy stimulates the kidneys to increased action. All of the glandular organs seem to feel the stimulating influence, and their functional activity is increased. The stomach is improved in its function, the bowels operate better, and absorption, assimilation, and general nutrition are materially improved. It encourages secretion and excretion, preventing further auto-intoxication, and quickly correcting the influence in the system of any that has occurred. It stimulates retrograde metabolism, or tissue waste, more markedly than any other single remedy known. It influences the entire lymphatic system, and the condition of the blood suggests that the patient has been taking stimulants. Its influence upon the capillary circulation is not comparable with that of any other known remedy, for while it is a stimulant to the circulation in these vessels, it also seems to endow them with a certain amount of recuperative power or formative force by which it is constituted, not only a general stimulant and tonic to the circulation, but also peculiarly so, to local inflammations of a debilitating character, as when administering liver and iron remedies in abundance. Sallow, pallid and dingy conditions of the skin of the face quickly disappear, and the rosy hue of health is apparent. Anemic conditions improve with increased nerve tone. There are but few subjective symptoms from large doses of this agent. It is apparently non-toxic, and to any unpleasant extent non-irritant. The agent certainly has a marked effect upon the

nervous system, but its specific influence upon the central organs has not yet been determined.

This agent is markedly anesthetic in its local influence. Applied to open wounds and to painful swellings, while the alcohol may at first induce a burning sensation, this is quickly followed by entire relief from pain in many cases. So marked is this influence that it could well be used for an antiseptic local anesthetic.

I am convinced that success in certain cases depends upon the fact that the patient must have at times, a sufficiently large quantity of this remedy in order to produce full antitoxic effects on the virulent infections. I would therefore emphasize the statement which I have previously made that it is perfectly safe to give *echinacea* in massive doses—from two drams to half an ounce every two or three hours—for a time at least, when the system is overwhelmed with these toxins. This applies to tetanus, anthrax, actinomycosis, pyemia, diphtheria hydrophobia, and meningitis.

**Specific Symptomatology**—It is the remedy for **blood poisoning**, if there is one in the *Materia Medica*. Its field covers acute auto-infection, slow progressive blood taint, faults of the blood from imperfect elimination of all possible character, and from the development of disease germs within the blood. It acts equally well, whether the profound influence be exerted upon the nervous system, as in puerperal sepsis, and uremia, or whether there is prostration and exhaustion, as in pernicious malarial and septic fevers, or whether its influence is shown by anemia, glandular ulceration or skin disease.

It is especially indicated where there is a tendency to gangrenous states and sloughing of the soft tissues, throat dark and full, tongue full, with dirty, dark-brown or black coat, in all cases where there are sepsis and zymosis.

It undoubtedly exercises a direct sedative influence over all of the fever processes in typhoid, cerebro-spinal meningitis, malarial fevers, asthenic diphtheria, etc., for while it equalizes the circulation, it also acts as a sedative to abnormal vascular excitement and lowers the temperature, if this be elevated, while if this be subnormal, the singular effect upon the vital forces conspires toward a restoration of the normal condition. As a sedative it is comparable in some respects with *baptisia*, *rhus*, and *bryonia*.



I think this sedative influence is largely exercised through its power to destroy the germs of the infection, thus removing the cause.

**Therapy**—Echinacea, is par excellence a corrector of any deprivation of the body fluids. It influences those conditions included under the terms septic, fermentative and zymotic. Those which manifest themselves in a disturbed balance of the fluids, resulting in alterations of the tissues such as are exhibited in **boils, carbuncles, abscesses** and cellular and glandular inflammations. These same conditions result from the introduction of the venom of serpents and poisonous insects of every character, also from the introduction of disease germs from pus and other putrid and infectious sources.

As an **intestinal antiseptic** the agent is bound to take first rank with all physicians when once known. Experiments with it to determine its immediate influence upon the fevers caused by continued absorption of septic material, such as **typhoid fever, puerperal fever**, and the fever of the afterstages of diphtheria, show that its influence upon the pernicious germs begins at once.

In several cases reported, where special sedatives were not given, the temperature has declined from, one-half to two degrees within a few hours after its use was begun, and has not increased until the agent was discontinued.

It has then slowly increased toward the previous high point until the remedy was again taken, when a decline was soon apparent.

It does not produce abrupt drops in the temperature, as often follows the curetting of a septic womb, or as the removal of a quantity of septic material often causes, but it effects an almost immediate stop in germ development, and a steady restoration from its pernicious influence. In the treatment of typhoid fever in the Cook County Hospital, Chicago, it was used in the Eclectic wards for about two years or more, and twenty-one days was the extreme extent of the fever, and the mortality was the lowest known. In many cases taken early, the fever was limited to fourteen days without delirium.

In private practice the reports of many physicians are much more enthusiastic, claiming that when given in the initial stage the fever has disappeared in seven days, and that fourteen days is the extreme limit.

The blood does not become impaired, the assimilation and nutrition are remarkably increased, the nerve force is retained, elimination from all organs is improved, ulceration of Peyer's glands ceases, the enteric symptoms abate, there is but little, if any, tympanites, and there has as yet been no case of **hemorrhage or perforation** reported as having occurred after the agent was begun. It certainly is a valuable acquisition to **typhoid** therapeutics. All recent reports confirm these statements.

Its influence in **septic fevers** is the same as in typhoid. It seems to act as a nerve stimulant upon the vital forces depressed by the poison. This fact was especially true in a case where extreme septic absorption after a badly conducted abortion caused acute nephritis and suppression of the urine. Uremia supervened, with delirium and mild convulsions. Twenty drops of the fluid extract of *echinacea* were given every two hours continuously. Extreme heat was applied over the kidneys, and a single dose of an antispasmodic was given, the *echinacea* alone being continued. The fever dropped in two days, the mind cleared, the urinary secretion was restored, and the patient made a rapid and uninterrupted recovery.

It is a most important remedy in **uremic poisoning**, and will supersede all other single remedies.

It has been in constant use in **diphtheria** for three years. It is used locally as well as internally. The exudates contract and disappear, the local evidences of septic absorption are gone, the fever declines, the vital forces increase, depression, mental and physical, disappears, and the improvement is continual. In **ulcerated sore throat** of any character, in **ulcerated sore mouth**, in **stomatitismaterni**, in **post-nasal** or **catarrhal ulcerations** it is prompt and effectual. It is preferred in these cases by those who use it.

In local inflammation of any portion of the intestinal tract, it has given excellent satisfaction. It quickly overcomes local blood stasis, prevents or cures ulceration, and retards pus formation by determining resolution. Reports of its use in **appendicitis** have been satisfactory, indeed. One writer treated several cases of unmistakable diagnosis, and satisfactory cure resulted. The writer treated one marked case of appendicitis where pus formation and future operation seemed inevitable. The improvement was apparent after the agent had been taken in a few hours, and recovery was complete in twelve days from attack.

Its use in **cholera infantum** has been satisfactory, especially if nervous phenomena are present. The frequent discharges gradually cease, the patient is soothed and the nerve force increases as the fever abates. Extreme nervous phenomena do not appear.

Webster, of San Francisco, in 1892, suggested the use of *echinacea* in **spinal meningitis**. It should be especially valuable if any blood dyscrasia lies at the bottom of the difficulty. Following Webster's suggestions, other physicians, from their personal observations, have been able to ascribe undoubted curative virtues to this agent in this and other convulsive and inflammatory disorders of the brain and cord. It directly antidotes the infection.

As a sedative in cerebro-spinal meningitis, Webster is disposed to believe that it specifically influences the vascular area concerned in the nutrition of the cerebro-spinal meninges.

Since the above was first written the use of *echinacea* for **cerebro-spinal meningitis** has been established among those who have been experimenting with the remedy in this disease. There is no doubt whatever that its influence in destroying the virus is specific, and effectual if given in sufficient doses. Five drops is about the ordinary dose for a child, but even this can be increased to twenty in extreme cases. It may be used in conjunction with hexymethylenamine.

At the same time, it must not be forgotten that in all spasmodic diseases, depending upon infection both conditions must be treated together, and *gelsemium* in full physiologic doses must be given with *echinacea*.

In the treatment of **erysipelas** it has given more than ordinary satisfaction, and has established itself permanently in that disorder. It is especially needed when sloughing and tissue disintegration occur, its external influence being most reliable.

In the pain of **mammary cancer** and in the **chronic inflammation** of the mammary gland, the result of badly treated puerperal mastitis, where the part has become reddened and congested, the remedy has worked satisfactorily.

In **bed sores**, **fever sores**, and in **chronic ulcerations** it is exceedingly useful. It is diluted and applied directly, while, it is given internally. It is of much value in **old tibial ulcers**, in **chronic glandular indurations**, and

in **scrofulous** and **syphilitic nodules** and other specific skin disorders. The extract or the fluid extract can be combined with an ointment base such as lanolin in the proportion of one part to one, two, or three parts of the base, and freely applied. It can be injected into the **sinuses of carbuncles**, or into the structure of the diseased parts with only good results.

Logan treated ten cases of stubborn skin disease of undoubted syphilitic origin with this remedy alone. It was applied externally and given in full doses internally, with a satisfactory cure in every case.

In the treatment of **syphilis** very many observations have been reported. It has been used entirely alone and also in conjunction with alterative syrups, but in no case yet reported has mercury been used with it. The longest time of all cases yet reported, needed to perfect the cure, was nine months.

The writer's observations, in all cases he has treated, are that the patient begins to feel a general improved condition after taking the remedy a few days. Some of them are enthusiastic concerning the **sense of well-being** they experience. It begins by removing all the sensations of discomfort, and the patient's mind becomes hopeful and encouraged. The specific fever in the first stages soon declines, and there is a permanent abatement of the evidences of the disease. There are absolutely no undesirable influences observed, and no after effects, and no undesirable side influences to overcome. I have not, however, depended upon this agent alone, in all cases. There are too many definite conditions present to be met with one remedy. I think results are hastened by correct adjustments of three or four other vegetable alteratives with this.

The influences of **echinacea** are not always enhanced by the use of the iodides. On the other hand, I have had satisfactory results, where the iodides, having previously been given in conjunction with it, were withdrawn, and the **echinacea** continued alone. The rapid amelioration of the disorders of the skin, after the withdrawal of the iodides, was especially remarked if **berberis** was substituted for them.

The following most remarkable case occurred in my practice:

A gentleman, aged about forty-five years, in apparently good health, was vaccinated, and as the result of supposed impure virus a most unusual

train of the symptoms supervened. His vitality began to wane, and he became so weak that he could not sit up. His hair came out, and a skin disease pronounced by experts to be psoriasis, appeared upon his extremities first, and afterward upon his body. In the writer's opinion, the condition had but little resemblance to psoriasis. It seemed more like an acute development of leprosy than any other known condition.

This advanced rapidly, his nails began to fall off, he lost flesh, and a violent iritis of the left eye developed and ulceration of the cornea in the right set in, and for this difficulty he was referred to Prof. H. M. Martin, President of the Chicago Ophthalmic College.

Dr. Martin gave him ten grains of the iodide of potassium three times daily, and fed him freely upon phospho-albumin. The loss of hair was stopped, but no other favorable results were obtained. The condition progressed rapidly towards an apparently fatal termination. At this juncture, Dr. Martin asked the writer to see the case with him. It looked as if there was no possible salvation for the patient, but as a *dernier ressort*, the writer suggested *Echinacea* twenty drops every two hours, and the phospho-albumin to be continued. With this treatment, in from four to six weeks, the patient regained his normal weight of more than one hundred and fifty pounds and enjoyed afterward as good health as ever in his life.

*Echinacea* has been used with great success in aggravated and prolonged cases of *rhus poisoning*, both locally and internally.

The agent has been long in use among the Indians in the West as a sure cure for **snake bite**. It has created a furor among the practitioners, who have used it in the bites of **poisonous animals**, that has made the reports, apparently, too exaggerated to establish credulity on the part of the inexperienced. Cases that seemed hopeless have rapidly improved after the agent was applied and administered. There is at present no abatement in the enthusiasm. One physician controlled the violent symptoms from the bite of a tarantula, and quickly eliminated all trace of the poison with its use.

Dr. Banta of California treated a man **bitten by a scorpion**, reported in the Eclectic Medical Journal, with *echinacea* with rapid cure.

In a paper read at the Ohio State Eclectic Medical Society in 1895, Dr. Gregory Smith stated that in 1871 Dr. H. C. F. Meyer commenced the use

of this remedy.

He says: "In malarial troubles it has no superior." He also recommends it as a remedy for **hemorrhoids**; twenty-five drops of the pure tincture injected into the rectum three a day promptly effect a cure. "It is also prompt in stings from insects and in poisoning by contact with certain plants." As an antidote to the venom of the *crotalus horridus* it stands without a peer. He gives the history of 613 cases of rattlesnake bite in men and animals, all successfully treated. With the courage of his convictions upon him he injected the venom of the *crotalus* into the first finger of his left hand; the swelling was rapid and in six hours was up to the elbow. At this time he took a dose of the remedy, bathed the part thoroughly, and laid down to pleasant dreams. On awakening in four hours the pain and swelling were gone.

The fresh root scraped and given freely is the treatment used by the Sioux Indians for snake bite. Recoveries from *crotalus* poisoning are effected in from two to twelve hours.

By far the most difficult reports to credit are those of the individuals bitten by **rabid animals**; there are between twenty and thirty reports at the present time. In no case has **hydrophobia** yet occurred, and this was the only remedy used in many of the cases. In five or six cases, animals bitten at the same time as the patient had developed rabies, and had even conveyed it to other animals, and yet the patient showed no evidence of poisoning, if the remedy was used at once. One case exhibited the developing symptoms of hydrophobia before the agent was begun. They disappeared shortly after treatment. In no case has an opportunity offered to try the remedy after the symptoms were actually developed. One poorly nourished anemic and jaundiced child was badly bitten and the treatment improved the general condition in a marked manner. In the treatment of **hydrophobia**, a case is reported, which was bitten by a rabid animal out of a litter of six halfgrown pups, all of which showed signs of hydrophobia and were killed. A number of parties were bitten by these pups. Two who were bitten died of hydrophobia, three were treated at the Pasteur institute and cured, one was treated with *echinacea* and cured.

The doctor prescribed teaspoonful doses of echafolta, every three hours. The remedy was introduced on saturated gauze into the wounds, and covered all the injured surfaces. This was secured by a roller bandage. Prior to the administration of the remedy the symptoms of nervous irritation and incipient hydrophobia were strongly marked. These

symptoms abated rapidly, and the patient recovered in a satisfactory manner.

A large amount of satisfactory evidence has accumulated confirmatory of our statements concerning the curative action of the remedy in **tetanus**. Dr. John Herring reported one marked cure. Dr. Lewis reports three cases, where the remedy was injected into the wound after tetanic symptoms had shown themselves. All the tissues surrounding the wound were filled with the remedy by hypodermic injection and gauze saturated with a full strength preparation was kept constantly applied. The agent was also administered in half-dram doses internally, every two or three hours.

Another physician has reported the observation of quite a number of cases, where tetanus had either markedly developed, or was anticipated. The use of the remedy satisfactorily overcame all apparent symptoms where present, and where not present, no tetanic phenomena developed. In the diagnosis of this disease the physician may confuse septic phenomena sometimes with those of developing tetanus, and the cure of the septic conditions may have been taken for a cure of tetanus.

In the treatment of **tetanus**, I am confident that no antiseptic alone will cover the entire pathology of this disease. There must be a powerful antispasmodic given in conjunction with the germ destroying agent, and vice versa. *Echinacea* or phenol hypodermically, or both, with *gelsemium*, *lobelia*, or *veratrum* carefully selected and adjusted should meet the indications of all early cases.

These same facts should apply to cases bitten by dogs and wherever convulsions result from infection.

The agent has had a most marvelous influence in overcoming **pyemia**. We have had some extreme cases reported, where it would seem that the patient was positively beyond all help, where amelioration of the symptoms was pronounced, and the restoration satisfactory.

In the treatment of small-pox conclusive proofs are now furnished us which declare the remedy to be of great efficacy, not only in ameliorating all the phenomena of the disease, but in preventing sequela. When applied to the skin in a form of a lotion, the pustules are benign in their character, and terminate with a minimum of scar.

In the treatment of erysipelas the remedy has proven itself all we anticipated for it.

Dr. Wilkenloh reports the treatment of at least five cases of **goitre**, three of which had **exophthalmic** complications, and all were cured, with this remedy alone. The doctor gave the remedy internally in full doses, and injected from five to fifteen minims directly into the thyroid gland, and kept gauze, saturated and applied externally. As no other remedy than this was used, there could be no doubt about its positive influence.

Applied to painful surfaces, to local acute and painful inflammations of the integument, or to painful wounds, its anaesthetic influence is soon pronounced, and is of great benefit, in preserving freedom from pain during the active healing processes, which are stimulated and encouraged by this remedy. Prof. Farnum is enthusiastic over the action of the remedy in overcoming the odor of **cancer**, whether in the early stages, or in the latter stage of the development of this serious disease. He advises its persistent administration in all cases where there is a cancerous cachexia, believing that it retards the development of cancer and greatly prolongs the patient's life.

We have already referred to its specific use in the treatment of **phlegmenous swellings, old sores, dissecting and surgical wounds**, and where there are pus cavities of long standing. Also as a very positive remedy, applied to all cases where **gangrene** is anticipated, or has appeared.

Its influence in gangrene of the extremities has been very pronounced. In gangrene of the fingers the curative benefits are observable from the first application. It is useful in **dermatitis venenata**, in **erysipelas** with sloughing phagedena, and in **phlegmasia alba dolens**, or **phlebitis**. In this latter condition its external use will greatly assist the internal medication.

In the treatment of **Anthrax**, echinacea has proven in a number of cases to be an exceedingly reliable remedy. Dr. Lewis of Canton, Pa., first reported on it in 1907 in Ellingwood's Therapeutist, and Dr. Aylesworth of Collingwood, Canada, confirmed all of his statements, the observations of the two doctors having been made about the same time, each without knowledge of the other. In these cases, very large doses from one to two drams, frequently repeated, are required.



Twenty to forty minims of *echinacea* every two hours with proper local treatment, such as iodine locally, will cure **actinomycosis**.

In the treatment of **catarrh**, it is used internally, and applied locally in the form of a spray, if necessary. It is not only an important remedy in nasal catarrh, but it is important in intestinal catarrh. I used it with excellent advantage in a so-called incurable case of ulcerative colitis with heavy discharge of mucus and pus.

Dr. Fair is emphatic in his statements that patients **exposed to diphtheria** should take *echinacea* in from ten to twenty drop doses every two hours with the positive expectation of preventing the disease. If the first symptoms appear as the usual premonitory evidences, the dose should be increased and other indicated remedies will ward off the disease. I have much confidence in this statement and would suggest that it be carried out fully.

The use of *echinacea* in the treatment of **impetigo contagiosa** is confirmed. One doctor treated several very severe cases and the rational action of the remedy suggests that its use externally and internally in this disease will prove highly satisfactory.

Another physician whose name is not given treated **infection** and a **purulent discharge from the urethra** where there was urinary retention for two days, with this remedy. He passed a catheter as far down as possible, and then combined one part of *echinacea* with six parts of sterilized water. He forced this slowly against the constriction. Relaxation took place probably from the local anesthetic influence of the remedy in a few minutes. The catheter was withdrawn, and the water passed freely. He repeated the treatment once or twice a day to a complete cure.

Dr. Rounseville reported to the Wisconsin State Medical Society that he had used *echinacea* with excellent results in both **diabetes mellitus**, and diabetes insipidus, and also in some forms of albuminuria, and in each of the cases he obtained results that confirmed his opinion that the agent was one that would be a material assistance combined with other measures.

Stubborn **diabetic ulcers** have been treated by Dr. Thomas Owens very successfully with the internal and external use of *echinacea*.

Dr. Hewitt used *echinacea* in **alopecia**. He made a strong solution and



**Specific Symptomatology**—This agent should be freely employed where there is excess of uric acid; where the “brick dust” deposit is marked; where the extreme and nauseating **backache** suggests that the crystalline constituents of the urine are not well dissolved and washed out of the tubules; or where there is renal sand or **gravel** in the **bladder**; where the urine is dark and heavy, and there is irritation, causing **congestion** of the **kidneys**, which in some cases induces **hemorrhage**; where precipitated solids irritate the bladder, and induce **cystitis** with thickening of the walls, and formation of pus. An infusion of *epigaea* freely drunk in these cases will relieve the entire train of symptoms, inducing a grateful sense of relief from irritation and distress.

Any of the preparations in sufficient doses will accomplish satisfactory results in the above conditions, but the infusion is more immediately active. Fifteen drops of specific *Epigaea* in an ounce of hot water, drunk hot, will act most promptly.

If the patient is closely confined and constipated, with dark, sallow skin, and inactive liver, add thirty grains of sodium phosphate and note the most gratifying results. This latter agent is itself a renal tonic and stimulant, with a soothing action. Its specific influence upon the liver greatly facilitates its effects on the kidneys when there is a fault in the hepatic conversion of the nitrogenous waste. In addition to its influence upon the kidneys, *epigaea* is a carminative of much value. It is a stomach tonic, and it soothes gastric irritation. It will quickly relieve persistent **eructations of gas**, and will cure many chronic cases that have resisted other treatment. When there is noisy **rumbling in the bowels** so distressing to ladies, when present, this agent may be successfully administered.

## **EPILOBIUM.**

### ***Epilobium angustifolium.***

Synonyms—Wickup, Willow herb.

#### **PREPARATIONS—**

**Extractum Epilobii Fluidum.** Fluid Extract of Epilobium Dose, from five to sixty minims

**Specific Medicine Epilobium.** Dose, from ten to sixty minims.

**Physiological Action**—The several species of *epilobium* are astringent, tonic, emollient, and demulcent, and have a specific influence on the

intestinal mucous membrane. The *epilobium palustre* has a well established reputation as a remedy in intractable cases of camp dysentery and diarrhea, cases having been cured by it when other means had failed.

**Specific Symptomatology—Chronic diarrhoea** with general emaciation, and a persistent enfeebled condition with dry, dingy, rough, harsh skin. If no great structural change, and no tubercular or cancerous conditions are present, this agent is the most satisfactory remedy we have. It is suggested where the abdomen is contracted, and where the diarrhea is feculent in character with sharp colicky pains.

**Therapy**—It will be curative also in general relaxed, subacute or acute cases of **diarrhea**, after the stage of inflammation has passed, but is not as reliable a remedy at that time as *geranium*.

In **muco-enteritis** it is of some service in conjunction with the indicated remedies. It is very useful in the diarrhea of typhoid fever; it acts kindly and surely. The author seldom uses any other astringent when these conditions are present. It exercises an apparent tonic influence upon the mucous and glandular structures of the entire intestinal canal, overcoming ulceration, and being of material benefit in the more speedy restoration of normal function.

In the treatment of **chronic eczema**, *epilobium* was strongly advocated by one of our best physicians. He often gave it in conjunction with *juglans*. In that class of inveterate cases that was at first papular and finally squamous, he got excellent results. Dr. Goss had great faith in *epilobium* as a **skin remedy**. He gave it in doses from fifteen to twenty minims, and in persistent cases he would make all infusion of the herb, having the patient drink it freely.

## **EQUISETUM.**                      *Equisetum hyemale.*

Synonym—Scouring rush.

### **CONSTITUTENTS—**

Silex, resin, wax, sugar, starch, salts, fixed oil.

### **PREPARATIONS—**

**Specific Equisetum.** Dose, from five to thirty minims.

**Therapy**—A diuretic useful in suppression of urine from any cause. Useful in **dropsy** and in **lithemic** conditions, where the urine is scanty, of high specific gravity, and dark-colored. It is advised in **hematuria**, and is of much service. in both **gonorrhoea** and **gleet**. In cases of **irritable bladder** with much tenesmus, it is soothing in its influence. It is valuable in the treatment of nocturnal **incontinence of urine** in children, and in incontinence induced by cystic irritation.

An infusion made from the green stalks of the plant, is sometimes of more service than other forms, a fact which is true of a large number of diuretics.

Some authorities have advised the powdered ashes of this agent in the treatment of certain forms of **acid dyspepsia**. This influence is probably due to the presence of the potassium or sodium hydrate, or their compounds, in these, ashes, and these substances are readily supplied from more available sources.

*Equisetum* is used where there is suppression of urine or scanty urine, or where there is irritability of the mucous surface of the urinary tract. Boskowitz' Review says that it has been found of value in **prostatitis**. It should be given where there is stinging pain in the glands. There is pain at the base of bladder and in the prostate, and there is irritability of the nervous system. The dose is from five to ten drops.

Dr. Jedlicka of Wisconsin thinks that it influences **morbid enlargements** within the **urinary apparatus**. It is primarily astringent, and tonic. He used it in prostatic enlargements combined with *salix nigra*. He finds it to act favorably also in gastric ulcer.

## **ERGOT.      *Secale cornutum (Claviceps purpurea)***

Synonym—Spurred Rye.

### **CONSTITUENTS—**

Ergotine, Ecbolene, Ergotic acid, fixed oil.

### **PREPARATIONS—**

**Extractum Ergotae Fluidum**, Fluid Extract of Ergot. Dose, from one-half to one dram.

**Specific Ergot**. Dose, five to sixty minims.

*Ergot* is prepared by special processes of purification for hypodermic injection. So used it is immediate in its action and can be so administered when impossible to give it by the stomach. Ergotine in solution in water and glycerine, is excellent for hypodermic administration.

**Physiological Action**—*Ergot* causes both acute and chronic poisoning when taken in toxic doses. Acute ergotism is characterized by vomiting, purging, headache, dizziness, drowsiness, slowing of the pulse, dilatation of the pupils, dyspnea, pain in the chest and loins, confusion of the senses, formication, coldness, anesthesia, convulsions, swelling of the face. Chronic ergotism is characterized by neuralgic pains, formication and numbness of the extremities, opisthotonos, violent delirium succeeded by exhaustion, death occurring in coma or in convulsions; or the drug may affect nutrition; muscular weakness is followed by gangrene of the limbs or superficial parts, which become blackened, shriveled and hard—a dry gangrene, generally ending fatally.

*Ergot* is classed as a motor excitant by most writers, and yet the evidences, as above described, of its depressing influence upon the nervous system and upon the circulation are most conspicuous. In its influence upon the circulation of the brain and spinal cord, it may be given in sufficient doses to produce anemia, and that it does greatly reduce the excitability of the nervous system, under certain circumstances, none will deny. It acts in perfect harmony with the bromides when there is acute cerebral engorgement with great nervous excitability.

There is no doubt that it produces contraction of the arterioles, although there are many evidences to prove that it may permit the venous capillaries to dilate freely.

In its influence upon unstriped muscular fiber the action of *ergot* is pronounced. It acts upon the muscular structure of the womb, producing extreme tonic or tetanic spasm of the fibrillae, causing a marked reduction in the size of the organ if enlarged, and rapid emptying of its blood vessels, and consequent anemia. Many prominent writers believe the anemia induced, causes the profound muscular contraction. It is more plainly apparent that a peculiar irritating influence of the agent upon such muscular structure induces its contraction, and that such contraction, assisted by the influence of the agent upon the coats of the arterioles, causes them to become emptied to a marked extent, and thus

the anemia.

*Ergot* acts upon the heart muscle in much the same manner as upon the muscular structure of the womb, although much less violently. It will surely reduce the size of a hypertrophied or dilated heart.

Because of the profound irritation of muscular fibrillae and consequent almost immediate contraction induced by *Ergot*, it is a most active agent in inducing expulsive pains in labor, in overcoming uterine inertia and in controlling uterine hemorrhage.

**Specific Symptomatology**—Extreme fullness of the circulation of the brain, flushed face, headache, bright, sharp eyes, great restlessness.

The indications for its safe use in **labor** are: first, uterine inertia; muscular relaxation with a more or less general weakness; second, the first stage of labor must be completed, and the *ostium vaginae must be fully dilated*.

There must be no obstacle to the free expulsion of the child.

The contractions induced by this agent are not smooth, spontaneous, natural, rhythmical contractions, but are irregular and extreme, and if an overdose be given it may induce a tetanic contraction and a single, most violent, continuous expulsive effort which does not cease until the entire contents of the womb are expelled.

With such an influence, if there be a rigid, undilated os or perineum, or malposition of the child, or extreme dryness of the parts, serious results, as rupture of the womb or extreme laceration of the perineum, are almost unavoidable.

This profound and continuous pressure on the child and placenta arrests haematoses, greatly paralyzes the heart's action, and thus impairs the circulation, inducing cyanosis and often death of the infant before its expulsion is complete.

Again, such pronounced action upon the womb structure may result in subsequent muscular paralysis, with great impairment of its contractile power, and if there be no post-partum hemorrhage there may be subinvolution more or less persistent. It will be seen, therefore, that this remedy in parturition is a dangerous one, and if used at all it should be

used only when every contraindication is absent, and every indication present.

**Therapy**—In **labor**, when there is threatened post-partum hemorrhage, or when the history of previous labors shows a tendency to such an accident, a full dose of *ergot* may be given just at the close of the second stage, or after the head has passed the perineum. No harm can come from such a procedure, and it will serve as a positive safeguard. If there is then free hemorrhage and lack of full uterine contraction, the dose may be repeated in perhaps half an hour, but the attendant must be assured that the womb is entirely empty. If the contractions are not firm and continuous, and hemorrhage at all violent should occur, other measures, such as external irritation and compression of the uterine fundus, or the introduction of hot water into the uterine cavity, must be resorted to in addition. *Ergot* is in general use in **post-partum hemorrhage**. It must be given in doses of from half a dram to a dram of the fluid extract. If this dose be added to an ounce or two of hot water and drunk, its influence is more immediate and pronounced.

In uterine **hemorrhage** at the **menstrual epoch**, menorrhagia, or in metrorrhagia, it is a most valuable agent.

In patients of relaxed muscular fiber its action is very prompt. The dose can be so measured and timed as to reduce the flow to normal time and quantity, while by the use of other agents, a healthy condition is being secured. Its influence, upon the womb structure is at the same time conducive to a sure acting in harmony with other uterine tonics.

In the treatment of uterine **subinvolution** or of **chronicmetritis**, *ergot* is a good remedy. The use of the agent conjointly with the bromide of potassium is especially advised in this condition, and with the further administration of properly selected uterine tonics the cure can be speedily completed.

**Polypi** are expelled from the uterine cavity by *ergot*, and the agent having a specific action upon the substance of the womb, is opposed to **hypertrophy** and to the development of abnormal growths within that structure. **Uterine fibroids** are expelled by *ergot* if possible, and if impossible, the persistent internal use of the agent is advised as a means of limiting their growth. Interstitial or submucous fibroids only, are influenced by it. Sub-peritoneal fibroids are apt to be a little outside of its influence, because outside of the range of the contraction of the



muscular fibers.

**Mammary tumors**, from uterine irritation, are slowly reduced by the action of *ergot*.

The hemorrhage and excessive discharges, purulent or otherwise, occasioned by the growth of **foreign bodies** about the **womb**, will be beneficially influenced by this agent. The growth of a uterine cancer is sometimes retarded a little, and the hemorrhage from the cancer is more or less controlled by *ergot*.

Dr. Standlee said that *ergot* would support the patient's heart exceedingly well when the remedy was indicated, especially when there was muscular fatigue from overwork or from dyscrasia, as in the malarial infections as found in the south, or in malignant malarial hematuria, especially if used hypodermically.

Ergotin so used will control hemorrhage from the lungs. It was administered for this purpose to a drunkard suffering from delirium tremens where it controlled both conditions satisfactorily.

As stated in its physiological action, *ergot* is a most useful remedy where there is a constant tendency to fullness of the **circulation** of the **brain—hyperemia** with flushed condition of the face, with vertigo, nausea, and violent headache. In threatened **apoplexy** in young, full-blooded, active men; with full cerebral circulation, it overcomes the immediate symptoms of an attack, and if properly administered will cure the tendency.

Where apoplexy from acute cerebral hemorrhage has occurred it is a very useful agent in unloading the distention of the capillaries and assisting in the contraction and removal of the clot.

In children, where there has been a **fall** upon the **head**, or a violent blow, with symptoms of **concussion** of the **brain**, *ergot* is the most prompt remedy known. It should be given in from five to ten drop doses, and repeated in half an hour if necessary. Spasm should be averted by *passiflora*, chloral, the bromides, or, a full dose of *gelsemium* may be given. But the circulation of the brain must be controlled at once by *ergot* and its influence sustained by smaller doses until inflammation is no longer pending.

In certain forms of **inflammation** of the **brain** and its meninges, where the capillary circulation is very full, *ergot* is most pronounced and certain in its action.

In **cerebro-spinal** meningitis of an acute endemic or epidemic form, it may be given in the early stages of the attack, but should be withheld in the latter stages. Other directly indicated agents should not, however, be neglected for this. It is especially applicable to children in the early stages of acute cerebral or cerebro-spinal inflammation.

*Ergot* in doses of five drops three or four times daily for a few days will benefit many severe cases of **typhoid fever**, especially if there be an engorged condition of the cerebral circulation, with tendency to dullness, stupor and mild delirium, with high temperature. It directly influences the intestinal canal, overcoming the relaxed and paralytic condition of its muscular structure, correcting diarrhea, controlling hemorrhage and improving the circulation. An occasional dose of fifteen or twenty minims will sometimes do much good.

In the treatment of both passive and active **hemorrhage**, *ergot* is a most excellent remedy. It contracts the walls of the arterioles, shutting off a full supply of blood and immediately restraining the flow. from open vessels. It is thus at once useful in hemoptysis, in hemorrhage from the mouth, gums, throat or pharynx, and from the stomach and intestinal canal. A local astringent in gastric hemorrhage from ulcer is often better, and also in intestinal hemorrhage in typhoid. It is good practice to give a local styptic alternately with *ergot*, where there is a persistent tendency to hemorrhage in these cases.

In **hemophilia** *ergot* is recommended. In this condition in infants it may be used for a short time locally and internally.

Hemorrhages about the eye-ball are controlled from its local application, and acute conjunctivitis and phlyctenular ophthalmia will be benefited, if it be used locally and internally in small quantities.

Occasional large doses of *ergot* in the treatment of pneumonia are spoken of as highly beneficial by excellent authorities. The remedy exercises its influence upon the capillaries.

In **hemoptysis** *ergot* is prompt and efficient. It need not be given in large doses. Three to five drops, four times daily, will usually restrain the

tendency to hemorrhage, and in a free discharge of blood, a ten-drop dose is usually sufficient, or it may be repeated.

In hematuria ergot is a prompt remedy if from traumatism, or if from active congestion, but gallic acid is usually better in passive conditions, and in conditions due to structural change.

In paralysis of the walls of the bladder after retention of urine, causing over-distention, *ergot* serves a good purpose. If hemorrhage be present it is quickly controlled and the muscular atonicity of the walls is greatly benefited.

*Ergot* is given in **urinary incontinence** when the cystic walls are greatly relaxed, or when there is a mild form of local paralysis.

Ergotin in full doses has quite a prompt influence upon **diabetes insipidus**. It is also useful in **diabetes mellitus**, but is not depended upon alone. In children afflicted with the latter disease it may be given in positive doses for a time, but should not be given continuously.

In that form of **spermatorrhea** where there is a tendency to fullness of the circulation of the parts, with erratic and spasmodic erections, and undue sexual excitement, the emissions quickly occurring after erection, there is no better remedy known than *ergot*. It should be given in about twenty drop doses at bedtime, and its influence is increased and a soothing influence upon the nervous system induced by giving it with ten grains of the sodium bromide.

In the treatment of **aneurism**, and of enlarged veins, and of varicocele, ergot is much used. Its influence is more positive though upon the arterial than upon the venous coats. It is used with good results in hemorrhoids. Bartholow and others injected it into the dorsum of the penis to contract the veins there and overcome impotency.

## **ERIGERON.**

## ***Erigeron canadense.***

Synonym—Fleabane.

### **COINSTITUENTS—**

A bitter principle, tannin, volatile oil.

## PREPARATIONS—

**Specific Erigeron.** Dose, from five to thirty minims.

**Oleum Erigeronitis,** Oil of Erigeron. This oil, which is obtained by distillation, is a pale-yellow liquid, with a peculiar aromatic odor and a pungent aromatic taste. Soluble in an equal quantity of alcohol. Dose, from five to ten minims.

**Specific Symptomatology—**The agent is given in **post-partum hemorrhage**, abortion with alarming flow, **menorrhagia** with profuse flow of bright-red blood, **dysmenorrhea** with **blood clots**, **bloody lochia** increased by movements, **epistaxis**, **hemoptysis**, **hematuria**, **hematemesis**, bleeding from the socket of an extracted tooth, incipient phthisis with **bloody expectoration**, **local bleeding from wounds**, bleeding from ulceration of the coats of arteries, **hemorrhage from the bowels** in typhoid fever—in all passive hemorrhages where there is no fever or constitutional irritation.

**Therapy—**It is used also in diarrhea and dysentery with discharges of bloody mucous after the bowels have been evacuated by a proper cathartic, blood-specked and profuse watery discharges of **cholera infantum**, **ecchymosis** from injury, **chronic gonorrhoea** with increased discharge of mucus, gleet, **leucorrhoea**, **chronic dysentery**, **chronic diarrhea**, **uterine leucorrhoea**, catarrh of the bladder, painful micturition, the urine being acrid, inflaming the parts, **gravel dysuria**.

One doctor used the *oil of erigeron* in the treatment of **leucorrhoea**. If the patient was anemic, and plethoric, he would give iron in conjunction, five drops four or five times a day on a square of loaf sugar. Others confirm the action of *erigeron* in the treatment of albuminuria or **Bright's disease**. They have found it to reduce the quantity of albumin, lower vascular tension, control nausea, headache, and other uremic symptoms.

The *oil of erigeron* may be diluted and employed as a gargle in sore throat and tonsillitis, while it may be applied externally to the throat.

In chronic rheumatic inflammations of joints, and painful swellings, a liniment of *oil of erigeron* may be used with advantage.

Its action in promptly controlling uterine hemorrhage shows that it is more than an astringent—that it contracts involuntary muscular fibre in the uterus; in like manner it acts on the muscular coats of the bowels, on the arteries and the capillary vessels, controlling hemorrhage and

increased mucous discharges.

As an astringent it acts like *turpentine*, but it is much less irritating. It is chiefly composed of terpene, a hydrocarbon which constitutes pure *oil of turpentine*. In chronic phthisis and in chronic bronchitis with profuse secretion, it lessens the discharge, modifies the cough and gives tone to the respiratory mucous membrane.

In the treatment of **goiter**, especially in the early stage, the application of *oil of erigeron* has been very beneficial. One-half of an ounce of the oil is dissolved in one and one-half ounces of alcohol and painted freely over the enlarged glands. If an occasional application of iodine is made with this and *phytolacca* given internally, satisfactory results should be obtained.

An infusion, or dilution of the tincture in water, is effective as a local application in **ophthalmia** after the acute stage, as an injection in **gleet**, **chronic gonorrhoea**, and locally in **prolapsus uteri**, **prolapsus ani**, and **indolent ulcers**. In all these cases the remedy should be given internally for its specific action.

In **cystitis** from calculous concretions in the bladder, it relieves the irritation, it also acts favorably in **chronic nephritis** and albuminuria, in chronic cystitis and in chronic urethritis.

In **flatulent colic** and in the tympanites of typhoid fever it should be given internally and by enema.

The volatile oil, the tincture, or the infusion may be employed; and the dose, to be efficient, need not be large.

## **ERIODICTYON.**                      *Eriodictyon californicum*

Synonym—*E. glutinosum*, Yerba Santa.

### **CONSTITUENTS—**

Volatile oil, fixed oil, ericolin, eriodictyonic acid, resin, gum, tannin.

### **PREPARATIONS—**

**Extractum Eriodictyi Fluidum**, Fluid Extract of Eriodictyon; dose, from a half to one dram.

**Specific Yerba Santa;** dose, from five to twenty minims.

**Therapy**—*Yerba Santa* has a soothing influence upon irritating, dry, hacking, persistent cough.

It is of value in **chronic bronchitis**, **chronic pneumonitis** and in **phthisis pulmonalis**, in allaying the cough which seems to increase the patient's feebleness and advance the development of the disease. It is an excellent remedy combined with *grindelia robusta*. It acts well in all forms of cough where there is dryness of the mucous membranes, in conjunction with other directly indicated remedies. It is prepared in the form of a syrup, and like *prunus virginiana*, can be made a basis or vehicle for other agents. The syrup conceals the bitter taste of quinine admirably.

## **ERYNGIUM. *Eryngium aquaticum.***

Synonym—Button Snakeroot.

**CONSTITUENT**—  
Volatile oil.

**PREPARATION**—  
**Specific Eryngium.** Dose, from one to ten minims.

**Physiological Action**—Diuretic, diaphoretic, expectorant, emetic.

**Specific Symptomatology**—Irritation of the bladder and urethra, dysuria, atonic dropsy, gravel, chronic nephritis, chronic bronchitis with profuse expectoration, chronic gonorrhoea, nymphomania and satyriasis, phthisis with profuse expectoration, chronic laryngitis, mucous diarrhea and summer complaint, epidemic influenza, scrofulous ophthalmia, hemorrhoids and prolapsus ani.

**Therapy**—*Eryngium* is a general stimulant, being diaphoretic and diuretic, with a special affinity for the mucous membranes. It has been given in infusion as a diaphoretic, in **dropsy**, **gravel** and **jaundice**, and in the commencing stage of catarrhal inflammation, such as occurs in the upper air passages in **epidemic influenza**. It must be given early in acute cases as a diaphoretic.

In chronic disease of the respiratory organs, with a relaxed condition of the mucous membranes, it acts as a stimulating expectorant like *senega*.

It is especially valuable in chronic irritation and inflammation of the mucous membranes; and on the urinary passages it has been shown to possess specific powers, as in **dysuria** from stricture, and in **gleet** and **chronic gonorrhoea**.

It also acts as a tonic upon the reproductive function, and is a very positive remedy in **nymphomania** and **satyriasis**.

It may be given as a tonic in cases of weak **digestion**, and to promote the appetite in general debility, and in convalescence from fevers.

## **COCA.** *Erythroxyton coca.*

### **CONSTITUENTS—**

Cocaine, cinnamyl-cocaine, truxil-cocaine, hygrine.

### **PREPARATIONS—**

Extractum Cocae Fluidum, Fluid Extract of Coca. Dose, from one-half to one dram.

**Specific Medicine Coca.** Dose, from one-half to one dram.

**Physiological Action—**The natives of South America and laborers in that country use *coca*, chewing the leaves, much as *tobacco* is used in other parts of the world. It abolishes the sensation of hunger for a time. This may in part be accounted for by its producing anesthesia of the nerves of the stomach. It does not take the place of food. It increases the powers of endurance and confers a singular immunity from the suffering incident to privation and excessive physical exertion. These effects are accounted for, in part at least, by the anesthetic effect of cocaine, which is its principal constituent. In large doses it increases the animal heat and quickens the pulse and respiration. By increasing the dose the nervous system is excited, with increase of desire for muscular exertion; while in poisonous doses it causes delirium, hallucinations and congestion of the brain. The general effect of *coca* is to stimulate the nervous system and retard retrograde metamorphosis. The prolonged use of the drug causes a degeneration of the nervous system characteristic of narcotics, though when used in moderation this effect is not observed.

The influence of *coca* on the native habitue of the tropics, and its influence upon the civilized inhabitants of the temperate zones are very

different influences. Its continued use among the latter is most serious, inducing habits more degrading and pernicious than the use of *opium* and alcohol, and as fatal to mental and physical integrity.

The effects attributed to the drug are only what might be expected from the action of so powerful an alkaloid as is contained in the *coca* leaves.

Therapy—There are few cases of **neurasthenia** in which this agent will not be found useful. Taken after dinner, it serves often to facilitate digestion, and even confirmed dyspeptics find their distressing symptoms relieved by it. It is of especial value in cases where exhausting mental labor has led to **morbid depression** of spirits. It is valuable in all cases of despondency. It relieves the **nervous irritability** that follows over-indulgence of any kind, restoring the capacity for work and renewing the energy.

It acts to an extent as an antidote to the effect of opium, alcohol, *tobacco* or *coffee*, and judiciously used is said to enable one to overcome the morbid craving for any of these stimulants when they have been used to excess.

It is used by public speakers and singers, who have found themselves in better voice after using it.

As a remedy for **nausea** and **vomiting** from reflex causes, particularly in the vomiting of pregnancy, the cordial proves extremely efficacious. For this purpose it should be taken a few moments before meals, and the dose repeated in an hour or so afterwards. **Gastralgia** is frequently relieved by this remedy, and **nervous headaches** often disappear under its use.

It is of service also in cases of **asthma**. It is an **aphrodisiac** and **emmenagogue**. It is an antiperiodic. Internally and locally it has been used for **hemorrhoids**. As a restorative in feeble heart it is of much value.

## **JAMBUL.**

## ***Syzygium jambolanum.***

**Synonyms**—Eugenia Jambolana, Java Plum, Jamboo.

### PREPARATIONS—

**Jambul seeds** in powdered form. Dose, three to ten grains, two or three times a day.

**Fluid extract jambul seed**, miscible with water. Dose, five to ten



minims.

**Physiological Action**—The exact influence of this agent upon the system is not well known. It is a stomachic astringent and carminative, a remedy of value in diarrheas. It is non-toxic and non-irritant.

In the diarrheas of children the juice of the fresh bark and leaves is used by the native physicians, though all parts of the plant are astringent. In the preparation of astringent injections and gargles the bark is quite active. The root and seeds have the same influence.

The taste is at first bitter, afterwards distinctly pungent, and decidedly astringent. Experiments have been conducted to determine the influence of *jambul* upon diastatic fermentation. It is proven to have an inhibitory influence. A fixed amount of malt extract converted 22.4 grains of starch into sugar. *Jambul* was added, and only 6.3 grains were converted under exactly similar circumstances. This experiment was suggested by the characteristic influence of the agent when taken by diabetic patients.

According to Morse, the agent augments the vaso-motor and reflex functions of the spinal cord by augmenting the blood pressure of the renal arterioles. It diminishes the quantity and density of saccharine urine. It increases peristaltic action of the intestines, and causes deeper and more frequent inspiratory movements. Wounds and ulcers, or syphilitic sores in diabetics, cicatrize rapidly, and heal during the administration of this agent.

**Therapy**—Its specific therapeutic application lies in the fact that the bark and the seeds possess the property of arresting excessive formation and excretion of sugar in diabetes, the seeds being the most active.

Inasmuch as the pathology of the disease is obscure, and the physiological action of the agent is comparatively unknown, it is impossible to make other than an empirical use of this remedy in these cases. Given in from five to ten grains of the powdered seeds, three times daily, it gradually overcomes the thirst and weariness and diminishes the quantity of urine. After two or three weeks the strength and spirits will return, and wandering and distressing pains and cramps abate, bleeding from the nose or gums, and night sweats will cease, and the quantity of sugar will gradually decline. The dose may be increased until forty grains are given in a day, and the probabilities are that large doses would produce no serious results.

The agent has been widely used in the treatment of this disease, and is as efficient as any other single remedy. The writer's experience proves that it acts best in those cases that have been long continued, with a comparatively small amount of sugar present, where the slow progress of the disease has not materially influenced the general health of the patient.

Among the qualified, observing physicians of India, it is believed that its use will prevent the conversion of starches into sugar to any excessive extent, and that starchy diet can be eaten with impunity during its administration.

## **EUONYMUS.**

## ***Euonymus atropurpureus.***

Synonym—Wahoo.

### **CONSTITUENTS—**

Euonymin, Atropurpurin, Asparagin, Euonic acid, resin, wax, fixed oil.

### **PREPARATIONS—**

**Extractum Euonymi Siccum**, dried Extract of Euonymus. Dose, from one to three grains.

**Specific Medicine Euonymus**. Dose, from five to thirty minima.

**Extractum Euonymi Fluidum**, Fluid Extract of Euonymus. Dose, from one to three drams.

**Physiological Action**—The agent is actively cathartic and alterative to an excellent extent, through its influence upon the function of the glandular organs. It exercises a distinct tonic influence.

**Specific Symptomatology**—Indigestion with biliousness, constipation, chronic intermittents with cachexia; pulmonary phthisis with night-sweats and great weakness; dropsical affections following acute disease; in convalescence from severe intermittent fever; enlargement of the liver; chronic bronchitis.

**Therapy**—*Euonymus*, or *wahoo*, is chiefly valuable as a tonic in **malarial cachexia**. It is antiperiodic, but much feebler than quinine. In those cases of indigestion and constipation with a yellowish tint of the conjunctiva, and round the mouth, the tongue being coated and of a

similar color, indicating a cholagogue, *euonymus* is a good remedy.

In large doses, it is a drastic cathartic, causing emeto-catharsis and great prostration.

It is a general **nutritive tonic**, and may be employed where *mandrake* is beneficial, in torpid liver and bilious states, with weak digestion, constipation, and lithemic neuralgia.

*It acts as a hepatic stimulant, improving the protoplasmic function of the liver, and increasing the production of bile.*

Its cholagogue power has been demonstrated by experiments on dogs, all well as when employed in the treatment of the human subject.

In **malarial disease**, after the fever has been broken, and in protracted convalescence, it is especially valuable as a tonic.

In chronic **pulmonary complaints**, it improves digestion, and gives tone to the respiratory organs, acting as an expectorant.

## **EUPATORIUM.**                      *Eupatorium perfoliatum.*

Synonyms—Boneset, Ague Weed.

### **CONSTITUENTS—**

Eupatorin, volatile oil, resin, tannin, wax, gum.

### **PREPARATIONS—**

**Extractum Eupatoriae Fluidum**, Fluid Extract of Eupatorium. Dose, from ten to sixty minims.

**Specific Medicine Eupatorium**. Dose, from five to thirty minims.

**Physiological Action**—Stimulating tonic, aperient, diaphoretic, emetic, antiperiodic.

The action of this agent upon the stomach is somewhat unique, differing in some important particulars from that of other stomach tonics.

**Therapy**—It is valuable in catarrhal disorders of whatever nature, whether gastric, intestinal, post-nasal, bronchial or vesical. It has an undoubted soothing influence upon the nervous system, and is of much

value in stomach disorders of nervous origin. In a case of neurasthenia of long standing, complicated with emphysema, the patient, an extremely nervous woman, persistently **regurgitated** all the **food** she took. There was no nausea, no vomiting; the food simply came back after it was swallowed. Fifteen drops of the fluid extract of *boneset* every two hours was given. The second day the patient was relieved, and there was no return of the disorder after the fifth day, for several months, when it recurred for a short time, but was promptly relieved by the same medicine.

In a case of intractable hiccough in an old man, when every possible remedy had failed and death seemed inevitable, *boneset*, fifteen drops in an infusion of *capsicum*, every hour, produced a permanent cure.

It is a typical diaphoretic, although not powerful in its action. In intermittent fever of the severest types, in remittent fever, in continued fevers of any type, and in the exanthemata, given in hot infusion in the early stages, it produces delightful results.

Dr. Locke says the remedy is specific in **masked intermittent fever**, in which there is sluggishness of every function and irregular occurrence of chill and fever, the fever followed with but little reaction, almost no perspiration, but with severe aching in the bones. He uses the infusion, made by steeping one ounce of the foliage of the plant in a quart of boiling water. Of this a half teacupful is given every fifteen minutes until the patient vomits thoroughly. He then puts the patient to bed and continues the remedy in smaller doses at lengthened intervals until the patient has perspired for two or three hours, when the medicine is discontinued and tonics are then given.

In conditions due to malaria, where there is intermittent headache, or severe irregular browache, where many of the symptoms of ague are present, this remedy takes precedence over every other.

## **EUPATORIUM.**                      *Eupatorium purpureum.*

Synonyms—Queen of the Meadows, Gravel Root.

### **CONSTITUENTS—**

Eupatorin, resin, volatile salt, tannin.

### **PREPARATIONS—**

Ellingwood's American Materia Medica, Therapeutics and Pharmacognosy - Page 211

**Specific Gravel Root.** Dose, from five to thirty minims.

**Specific Symptomatology**—Irritation of the bladder in women from displacement and chronic inflammation of the uterus; and **suppression** of urine, partial or complete, during or after pregnancy.

**Therapy**—The agent is of service in **dropsy**, **strangury**, **gravel**, hematuria, disease of the **kidneys** and **bladder** from an excess of uric acid, in chronic **endometritis**, leucorrhœa, chronic uterine disease, insufficient labor pains, threatened abortion, ovarian and uterine atony, dysmenorrhœa, painful affections of the kidneys and bladder, much cutting pain and smarting in the urethra while urinating, constant desire to urinate, suppression of urine, either partial or complete, burning distress or dull aching in the bladder, urine mixed with mucus, pain in the kidneys. It has been frequently used in enormous distension of the limbs and body from **dropsy**. Also in **intermittent fever**, chills in the lumbar region, when there is violent shaking with little perspiration, severe bone pains, frontal headache, weak, tired feeling, paroxysms every other day, hectic fever with night sweats.

*Eupatorium Purpureum* is a remedy for the diseases of the **uric acid diathesis**, irritation of the urinary tract being the chief symptom; while it is a positive remedy where it is necessary to increase the flow of the urine. It increases retrograde metamorphosis and eliminates the poison causing rheumatism. It stimulates the female reproductive organs, and may be employed in labor and as a tonic in chronic uterine disease. In intermittent fever it has effected cures. It acts on the ganglionic system of nerves, and may be given to improve digestion. It stimulates waste, and may be employed in any case where an alterative is required.

Dr. Andrews for many years has treated **scarlet fever** with *gravel root*. He adds two drams of it to four ounces of water and gives a teaspoonful every two, three, or four hours for its active influence in stimulating excretion.

## **EUPHORBIA.**                      *Euphorbia corollata.*

Synonym—Large flowering Spurge.

### **CONSTITUENTS—**

Euphorbin glucoside, resin.

### **PREPARATIONS—**

**Specific Medicine Euphorbia.** Dose, from one to ten minims.

**Physiological Action**—Emetic, diaphoretic, expectorant, epispassic. In large doses it causes emeto-catharsis, and in some cases inflammation of the stomach and bowels.

**Therapy**—Though *euphorbia* acts as an emetic it is but little used for that purpose, being too harsh in its action, inducing hydragogue catharsis at the same time. While in extreme doses it may cause acute gastro-enteritis, in small doses it stimulates normal functional activity of the stomach, influencing the glandular function of the entire gastrointestinal tract. In the **atonic dyspepsia** of enfeebled conditions of the stomach, with bad breath, bad taste in the mouth, furred tongue, anorexia and constipation with a sense of weight in the stomach, and occasional colicky pains in the bowels, it is a good remedy. Ten drops of the tincture in two ounces of water, a teaspoonful every two hours, will relieve this common train of symptoms. It has been used in cholera infantum and other summer diarrheas of children with good results. It is advised in the tenesmus of dysentery, and in the diarrhea of exhausting diseases.

## **EUPHRASIA**

## ***Euphrasia officinalis.***

Synonym—Eyebright.

### **PREPARATIONS—**

**Specific Medicine Euphrasia;** dose from one to sixty

**Specific Symptomatology**—The sphere of action of this agent is upon irritating and catarrhal disease; first, of the upper portion of the respiratory tract, and afterward of the mucous structures of the throat, and bronchial tubes. It is more immediately beneficial if the discharge is thin and wateryfluent. “**Snuffles**” in infants demands this remedy.

It is specific to acute disorders of the **nasal mucous membranes**. It is especially applicable in children's cases, but is curative also in adults. Where there is **watery discharge** from these membranes, where there is **earache**, or **headache**, and especially if the distress be across the eyes, in acute catarrhal affections, it has a direct influence upon the lachrymal apparatus.

**Therapy**—In **cough** and **hoarseness**, where there is a thin bronchial discharge, it is applicable especially to the **catarrhal manifestations**

following **measles**. It will prevent other sequelae of measles, as **catarrhal conjunctivitis**, **catarrhal deafness**, and **chronic nasal catarrh**. It is indicated where there is abundant secretion of thin acrid mucus, from the eyes and nose, with pain and heat in the frontal sinus.

It is especially indicated in that form of recent colds that spend their force on the mucous surfaces of the nose and throat with fullness of the frontal sinus.

In **acute coryza** the agent exercises a specific action. It should be given in ten drop doses of the tincture every hour or two. In “snuffles,” so called in very young infants, five or ten drops of the tincture may be dropped into a half of a glass of water, and a teaspoonful given every ten, fifteen or thirty minutes. Relief is often immediate. In the **coryza of measles** it is of much benefit, and the bronchial and pulmonary irritation caused by this disease is ameliorated also by its use.

A reliable indication is a red and watery condition of the eyes— irritation of the lachrymal structures. Any unpleasant after influence of measles upon the eyes is relieved by the use of *Euphrasia*. Its internal use will benefit many cases of conjunctivitis, especially those of recent origin in children. The specific indications for this agent, plainly suggest its use in certain well marked cases of **epidemic influenza**. It should be given a careful, thorough trial in this, often most serious disorder.

A writer reports a chronic case of **catarrh**, in which the patient for many months had seemed to be persistently renewing an acute cold in the head. There was persistent sneezing, a constant inclination to blow the nose, and a profuse watery secretion which, when lying down, continually ran from the posterior nares. Five drops of specific *euphrasia* every two hours, cured this patient within a couple of weeks. In children the smaller dose is preferable, and a dose of ten drops will cure most of the acute cases. But some of the chronic cases will not be benefited until they are given large, full doses. It is claimed also that it has cured chronic **catarrh** of the **intestinal tract**.

It is excellent also as a collyrium in **blepharitis**, and **conjunctivitis**, twenty drops in four ounces of water applied freely. It is given internally at the same time. It is a tonic, improves the appetite, and conduces to a general sense of well being.

It is asserted that **epilepsy** has been successfully cured by giving four

ounces of an infusion of this remedy, upon an empty stomach, every night at bed time.

## **PICHI.**

## ***Fabiana imbricata.***

Part Employed—The leaves.

### **CONSTITUENTS—**

A fluorescent glucoside, crystalline; a crystalline neutral resin, paven, fraxin and an essential oil.

### **PREPARATIONS—**

**Extractum Pichi**, Extract of Pichi. Dose, from two to ten grains.

**Extractum Pichi Fluidum**. Fluid extract of Pichi. Dose, from ten to sixty minims.

**Administration**—This agent being a terebinthinate and markedly resinous in character, readily precipitates in water, the precipitate separating in masses or curds. The solid or powdered extract may be given in capsules. The fluid extract may be prescribed in glycerine without precipitation. It should not be combined with saline constituents. It will remain in temporary suspension in a heavy syrup, or mucilage.

**Specific Symptomatology**—The agent has specific properties in relieving **irritation** and **inflammation** of the **bladder** due to mechanical causes. In **gravel**, especially of the uric acid variety, it is prompt and satisfactory. In phosphatic or calcareous deposits, it is of great benefit.

This agent gives tone to the whole genito urinary tract. It is especially valuable in cases where old people are troubled with inactivity of the kidneys with a tendency to feebleness of the muscular structure of the bladder. It acts in those cases of **gravel** where the irritation is marked. It is thought to assist in the disintegration of the stone until it is reduced so that it may be passed through the urethra. The urine will assume the characteristic odor of the drug, especially if it be given in overdoses. It may be given with other common remedies of this character. Its best field is in those cases of chronic **inflammation** of the **kidneys** or **bladder**, where there is a persistent discharge of large quantities of blood, pus, mucous and calculi in the urine. It should be given in full doses, from twenty to forty-five minims of a strong fluid extract.



**Therapy**—It relieves **general distress** or discomfort in all the urinary organs, and in the prostate gland. In **vesical tenesmus** and in **dysuria** from any cause it is almost specific. In **lithemia** or the uric acid diathesis, it stimulates the liver to more perfect action, greatly increases the action of the kidneys, reduces the specific gravity of the urine, and permanently reduces the excess of uric acid. This influence renders it of value in **rheumatism**, either acute or chronic.

It has been used in **gonorrhoea** and in acute and **chronic cystitis** of all forms with excellent results. It acts as a gastric tonic, like *kava-kava*, greatly increasing the appetite and promoting digestion. It has a direct action upon the function of the liver.

It stimulates the kidneys, too actively in those cases where there is structural degeneration, but it will quickly overcome simple recent cases of **renal hyperemia**. It is contra-indicated in Bright's disease, as in some protracted cases the albumen has been increased by the use of this remedy.

It is also useful where there are **biliary calculi**, as well as in the renal and vesicle forms. It allays **urinary tenesmus**, in those cases of **cystitis**, which are of mechanical or traumatic origin. In acute **urethritis** it has accomplished some good results.

Fifteen minims of the fluid extract every three hours has proved serviceable in the treatment of acute **prostatitis**, **seminal vesiculitis**, and in the subsidiary stage of **orchitis**, and **epididymitis**. In some cases the remedy is best given with an alkali. In those cases where the urine smells foully and is alkaline in reaction, it may be given in conjunction with borax and benzoic acid, with excellent results. Some forms of painful disease of the pelvic organs have been relieved by it. It is useful in **dysmenorrhoea**, and acts in harmony with *viburnum*.

## **ASAFOETIDA.                      *Ferula foetida.***

**Part Employed**—The dried milky juice obtained by incising the green matured root of the *Ferula foetida*.

### **CONSTITUENTS—**

Resin, Gum, Volatile Oil, Sulphur.

### **PREPARATIONS—**

**Emulsion Asafetidae**, Emulsion of Asafoetida. Dose, two ounces.

**Pilulae Asafoetidae**. Pills of Asafoetida. Dose, one to four pills.

**Tinctura Asafoetidae**, Tincture of Asafoetida. Dose, one to two drams.

**Therapy**—This agent is a mildly stimulating nerve sedative. Its soothing influence upon the brain is of no mean order. This is especially observed in **hysterical conditions**, in hystero-epilepsy and in hypochondriasis. It arrests hysterical paroxysms and produces quiet and rest with a pleasant sense of exhilaration. It relieves the flatulence of hysteria also. In nervousness, especially that of weakened and exhausted conditions, and of children, it is soothing, and often wards off spasms.

In spasmodic conditions of the stomach and bowels with **tympanites**, in the absence of active inflammation it is a remedy long used. In accumulations of gas in the stomach or bowels it has been used to, the best advantage.

In **spasmodic bronchial affections**, in **whooping cough**, and in **asthma** it was a favorite with the older doctors. In the bronchial catarrhs of the aged and infants it has been given with advantage, especially if nervous depression was present. A three-grain pill was the celebrated “Keeley cure” for la grippe, and those who have used the remedy in epidemic influenza are usually enthusiastic in its praise.

## **SUMBUL.**

## ***Ferula sumbul.***

Synonyms—Sumbulus moschatus. Musk root. Jatamansi.

### **CONSTITUENTS—**

It contains an aromatic resin, a volatile oil and angelic acid.

### **PREPARATIONS—**

**Fluid extract**, dose ten to sixty minims.

**Tincture**, dose one to thirty minims.

**Therapy**—This remedy is a pure, stimulating nerve tonic. It seems to invigorate the nutritive functions of the system. It has been recommended during the progress of **low fevers**, where the nervous system is greatly debilitated, as in **typhus**, **typhoid** and **typho-pneumonia**. Wherever the nervous system has received the effect of a protracted prostrating disease, it can be given with advantage. Murawieff

advised it in both acute and chronic **pulmonary disease**, through its influence upon the nervous system. Probably it influences the circulatory and respiratory functions, supporting them under the strain of protracted inflammation. The remedy has been used in stomach disease, **diarrhea**, in **dysentery**, and in **cholera**. When the nervous system is enfeebled in **hysteria**, and in **delirium tremens**, it is a good remedy. In **chlorosis**, **anemia** with nervous phenomena, in **leucorrhoea** and **gleet**, it is to be advised.

**FRANCISCEA.**                      *Franciscea uniflora.*

Synonyms—Manaca; Vegetable Mercury.

Dr. Williams of Bristol, Conn., has used *manaca* for twenty years. He finds it especially valuable in chronic stiffness of the muscles. Where from muscular contractions the joints are stiff. He does not think it curative in actual arthritis. In one case, there was **contraction of muscles** of the shoulders with inability to raise the arms, with severe neuralgic pain, weakness of the nervous system, and violent attacks of the heart. There were **rheumatic pains** in the **feet** and lower part of the legs which prevented the patient from walking except with the aid of a crutch. The patient was anemic; had heavy urine full of **uric acid**. This patient was given *melilotus*, *sticta* and *manaca*. There was gradual improvement, and the patient ultimately made a satisfactory recovery.

Dr. Cowen gives *manaca* in fifteen-drop doses, with salicylate of sodium in **acute rheumatism**.

*Manaca* is a valuable remedy for **gonorrhoea** and for **gonorrhoeal rheumatism**.

Dr. Hopkins gives *manaca* in muscular rheumatism in four-drop doses every two or three hours. He often combines it with *cimicifuga*. In either case, the results are satisfactory.

**FRASERA.**                              *Frasera canadensis.*

Synonym—American Columbo.

## **CONSTITUENTS—**

Gentiopicroin, gentisic acid, two distinct yellow coloring matters glucose, gum, sugar, salts.

## **PREPARATIONS—**

**Specific Medicine Frasera.** Dose, from five to thirty minims.

**Therapy—**This agent operates upon the stomach and digestive apparatus directly, influencing the tone of the glandular organs of the entire digestive tract. It is a stomachic tonic of considerable power, exercising its best influence when the apparatus is impaired by protracted disease. Under these circumstances it is also a stimulant and astringent to the secreting surfaces, correcting **excessive night sweats** common to such a condition, controlling the **diarrhea** and **dysentery** where there are relaxed and atonic mucous membranes.

In that form of **catarrhalgastritis**, where there is a sense of fullness in the stomach after eating even a little food, it improves the digestion and relieves the distress, and where there is marked debility improves the tone of all the organs.

## **FRAXINUS.**

### ***Fraxinus americana.***

Synonyms—Black Ash, Elder Leaved Ash, or White Ash.

## **PREPARATIONS—**

**Specific fraxinus**, ten to sixty drops.

The **Homeopathic mother tincture**, same dosage.

**Specific Symptomatology—**Uterine disease, depending upon sub-involution. Dragging pains in the lower abdomen—great weight; a sensation of hardness extending into the vagina; irregular lochial or menstrual discharge; general plethora; constant headaches, with soreness and pain in the top head.

Accompanying these symptoms there is a sore spot on the top of the head which is hot, and where if continued the hair becomes stiff and brittle.

This is often accompanied with persistent headache difficult to control. The headache is not influenced by eating or sleeping. It resembles an anemic headache as it is more or less constant, unless relieved by the recumbent position or by a position in which the hips are raised and the

head lowered.

**Therapy**—In uterine diseases, where there is no permanent organic change, Dr. Shafer gave this remedy first place. He used it for several years, and his observations should carry weight. It is indicated in uterine **tumors**, of somewhat speedy growth, and in **hypertrophy** of the **uterus**. Where the tumors are of long-standing its influence is less satisfactory. It influences cell proliferation in hypertrophy, assisting in the reduction of size of an enlarged organ and in the restoration of a correct position, normal function and normal size.

One patient had a sensation of much weight in the lower abdomen with a sensation of hardness extending down into the vagina, pressure in the rectum, hard and **enlarged cervix**, greatly enlarged womb, constant sensations of desire to pass urine with no relief when passed. The organ was reduced to normal size in four months' time, by the persistent use of twenty minim doses of this remedy four times daily. No other agent was used.

Another case of hypertrophy, resulting from a miscarriage, was as satisfactorily cured. Cases of **subinvolution**, following a poor getting up, after labor, were satisfactorily cured with this remedy alone. The agent must be given immediately following confinement in those cases where convalescence threatens to be protracted.

One young lady, severely injured by falling from a carriage, had severe uterine inflammation, which left chronic enlargement, as its result. She had been told that hysterectomy only would cure. The organ was enlarged to six times its usual size, though she was only eighteen years old. She was completely cured with this remedy alone.

Prior to the use of this remedy, for uterine disorders, it was recommended as one that influences the chylopoietic viscera. In large doses it will induce active purgation. It has found a place in the treatment of diseases of the liver or spleen, in that form known as ague cake, resulting in obesity, dropsical affections and constipation.

## **BLADDER WRACK.      *Fucus vesiculosus.***

Synonyms—Sea wrack, Kelp-ware.

## PREPARATIONS—

**Fluid Extract Bladder Wrack**, miscible with water without precipitation. Dose, from one-half to four drams, three times a day.

**Powdered Extract Bladder Wrack**, of the same strength as the solid extract. Dose, from five to thirty grains.

**Solid Extract Bladder Wrack**; one part equals five of the plant. Dose, from five to thirty grains.

**Therapy**—This agent is, used for the specific purpose of **reducing unhealthy fat** in excessive **adiposity**. If given in doses of from one-half to two drams, three or four times daily, it has reduced excessively fat patients in a satisfactory manner without interfering in any way with the normal health functions. Wilhite, in *New Preparations*, 1878, gave his observations as follows: “From our study of the drug we do not believe fucus to be a reducer of the adipose tissue of *healthysubjects*. It is mostly on those cold, torpid individuals with a cold, clammy skin, loose and flabby rolls of fat, with relaxed pendulous abdomen, that *fucus* will display its powers to the best advantage. In this class of cases fat is a morbid condition, a result of vitiated function. With such the remedy acts beneficially by overcoming this torpid and morbid tendency, thus reducing the size by toning up the vascular and sympathetic systems. Possibly it also acts upon the starchy matters of the food in some manner, so as to prevent their easy change into fat when introduced into the human economy.”

It is in the **obesity** of individuals of the lymphatic temperament that the beneficial effects of this drug are the most marked. It has little or no influence in the reduction of the fleshiness of persons of active habits, or of those of the sanguine temperament. In these cases strict regulation of the diet affords the only prospects of relief, but owing to the keenness of the appetite usually present, this regulation is rarely enforced. *Fucus* shows its most decided influence upon women in whom there exist menstrual derangements as menorrhagia and leucorrhœa, owing to a general atonic and flabby condition of the uterine tissues. In such cases an improvement in the local derangements usually precedes the general reduction of fat and the improved tonicity of the general system.

*Fucus* is advised as a specific remedy in the treatment of both **exophthalmic** and **simple goitre**. It is especially successful in patients not above thirty years of age. It is also suggested in the treatment of fatty **degeneration** of the **heart**. It is of service in **desquamative nephritis**, and in irritation and **inflammation** of the **bladder**. When general muscular

relaxation is present, it is of service in the treatment of **menstrual derangements**.

**GALIUM.** *Galium aparine.*

Synonym—Cleavers.

**CONSTITUENTS—**

Gallotannic, citric and rubichloric acids: starch.

**PREPARATIONS—**

**Specific Galium.** Dose, from five to sixty minims.

**Therapy—**A sedative remedy in acute inflammation or irritation of the urinary tract. Given in fever it impresses the temperature favorably, stimulates the excretion of all urinary constituents and the fever is shortened by its use. It is given for its general tonic influence upon the urinary tract.

An infusion is the most active form. It is useful in **dysuria** if from acute inflammation, and it is an excellent remedy for **suppression** when **nephritis** has occurred from septic causes. It is useful in **strangury** in vesical irritation from **uterine** disorder and in the **cystic** and **prostatic irritation** of old men.

**GAULTHERIA.** *Gaultheria procumbens.*

Synonym—Wintergreen.

**CONSTITUENTS—**

Volatile oil, tannin, gallic acid, arbutin, urson, ericolin, sugar, gum.

**Oil of Gaultheria** (Oleum Gaultheriae)—This oil is prepared by distilling *wintergreen leaves* while fresh with water or steam. It is transparent and colorless when recent, but soon becomes reddish from exposure. It has an aromatic odor and a strong, spicy, agreeable taste. Pure *oil of wintergreen* contains about 90 per cent of methylsalicylic acid. The dose of the oil is five or ten drops, repeated every two or three hours, till some effect is produced, favorable or otherwise. If ringing in the ears is caused by the medicine, it should be discontinued or repeated in smaller doses when this effect has passed off. The remedy in full doses is apt to cause dangerous depression in debilitated constitutions.

**Salicylic acid**, made from *oil of wintergreen*, is the only preparation of the acid suitable for internal use.

A pure salicylate of soda is made from the salicylic acid of *oil of wintergreen*, which is preferred in the treatment of acute **articular rheumatism**; while in neuralgia of the fifth cerebral nerve **tic douloureux**, and **gonorrhoeal rheumatism**, the *oil of wintergreen*, in as large doses as can be borne, is the better treatment. In other cases, a tincture of the fresh plant should be employed.

It may be employed as a spray to the throat in diphtheria; and suitably diluted, as a dressing for wounds; while it may be used internally for the general purposes of an antiseptic.

#### **PREPARATIONS—**

**Specific Gaultheria.** Dose, from five to thirty minims.

**Specific Symptomatology—**The agent is given successfully in the treatment of **hemorrhoids** from congestion of the pelvic circulation, hemorrhoids with very painful external tumors, of a dark-purple color, with constipation, with pain across the sacrum, and congestion of the portal circulation.

**Therapy—**It is of benefit in **neuralgia**, **tic douloureux**, **gonorrhoeal rheumatism**, **inflammation** of the **bladder**, **irritation** of the prostate gland, **dysuria**, sexual excitement in male or female, **spermatorrhea** without impotency, **acute articular rheumatism**, **migraine**, **sciatica**, diabetes, **diphtheria**, chronic mucous discharges and toothache (locally). A liniment of the oil is useful in allaying the pain of rheumatism.

**Asthmatic breathing** of a non-paroxysmal character is relieved by this remedy, as is **asthmatic cough**, and cough characterized by constriction or tightness at the supra-sternal notch. In the cough of asthmatic bronchitis, or in dry, harsh, persistent bronchial or phthisical cough, this agent acts nicely.

It is a serviceable remedy in **hepatic congestion**, and in congestion of the glandular structures of the entire gastro-intestinal tract. Its influence over the portal circulation is most pronounced.

In ovarian conditions inducing too frequent menstruation, with



congestion of the pelvic circulation, in addition to the conditions above named, as in enlargement of the uterus, with a swollen, engorged condition of the cervix, it is directly useful.

The oil is now freely used externally in the treatment of articular **rheumatism** and also in **chorea** with excellent results. In the latter disorder it is applied, if necessary, over the upper and lower limbs, alternately, and over the spine. It may be given internally at the same time. The application may be confined with oiled silk.

An ointment made of ichthyol and the *oil of gaultheria* in a proper vehicle, rubbed together thoroughly, makes an excellent application to the joints in acute, and in gonorrhoeal rheumatism. It acts equally well on the original disease. Six drops of the oil is given three times a day, and this will cure many cases. If given in conjunction with *gelsemium* and *cimicifuga* in the first stages, it will probably shorten or even abort the disease.

## **GELSEMIUM,                      *Gelsemium sempervirens,***

Synonym—Yellow jasmine.

### **CONSTITUENTS—**

Gelsemine, Gelsemic Acid, Gelseminine, Volatile Oil, Gum, Starch, Resin.

### **PREPARATIONS—**

**Extractum Gelsemii Fluidum**, Fluid Extract of Gelsemium. Dose, from one-half to ten minims.

**Tinctura Gelsemii**, Tincture of Gelsemium. Macerate and percolate with dilute alcohol. Dose, from five to thirty minims.

**Specific Medicine Gelsemium**. Dose, from one-third to ten minims, prescribed, ten minims to five drachms in four ounces of water. Teaspoonful every half hour to two hours.

**Administration—***Gelsemium* is a prompt remedy if given in sufficiently active dosage. The excellent results obtained by the older physicians were obtained from full doses. Children are more susceptible to its action than adults, and with them the smaller dosage is applicable. In spasms the maximum dose is needed. If toxic effects are obtained, they can be readily observed and antagonized with no harm to the patient.

*Gelsemium* is quickly eliminated from the system, largely through the kidneys, consequently the effects of single doses are quickly dissipated, and medicinal doses must thus be given frequently, especially in childhood, to insure good results. Single full doses should be given only to adults.

The remedy can be given in single doses of from fifteen to twenty minims, but any dose of three drops or more must be watched for physiological effects, and diminished when these appear.

**Physiological Action**—Usually upon the administration of an overdose of this agent there is at first some excitement, followed by depression of the nervous system, with dizziness, amblyopia, double vision, dilated pupils, exophthalmos, complete prostration, with drooping of the, upper eyelids from paralysis of the levator palpebrae superioris and inability to keep the jaw closed. The temperature is reduced, the force and frequency of the pulse is lowered, with dyspnea, the breathing being accomplished with much effort, and death usually results from paralysis of the respiratory muscles, including the diaphragm. The influence appears to be exercised upon the base of the brain, on the brain, on the splanchnic nerves and on the spinal cord. It inhibits the nerve force of all the visceral organs and relaxes the sphincters. Convulsions are one of the results of poisonous doses in animals. In man, while there is loss of sensation and motion, the patient is conscious of what is going on around him, unless the symptoms are prolonged, when deficient oxygenation of the blood, with accumulation of carbonic acid, will produce coma.

In experiments made upon pigeons the effects are very similar to those resulting from destruction of a portion of the cerebellum. There are irregular backward movements, tremblings, flutterings of the wings, preceding complete paralysis.

*Gelsemium* in lethal doses paralyzes the nerves, both sensory and motor. The motor nerves are first influenced, the paralysis of sensation more slowly following. The writer observed a case of poisoning where the patient had taken sixty minims of the fluid extract within forty-five minutes. A sensation of general oppression occurred rather suddenly. The patient rose to her feet, noticed that vision had failed almost completely, walked two or three steps, then fell in a mass upon the floor in a state of complete muscular relaxation. There was no alarm or fear, a rather tranquil feeling mentally, and in this case there was no great difficulty of breathing, although we have observed dyspnea from single

doses of two or three minims of the fluid extract. The recovery of this patient was rapid, although muscular weakness was present for several days.

The primary influence of *gelsemium*—that which probably always underlies its remedial influence upon any condition—should be borne steadily in mind in its administration. Its direct action is upon the central nervous system. It diminishes the blood supply of the brain and spinal cord by lessening nerve power, inhibiting the nerve control, slowing, retarding or staying the functional action of the nerve centers over the nerves themselves, influencing them steadily in the line of their physiological activities. It thus subdues all forms of nerve excitation of whatever character, or wherever located. It inhibits excessive nerve action. Nerve irritation, whether direct or reflex, comes uniformly under its influence.

There must be, then, increased nerve tension, with its consequent irritation, and usually, local hyperemia or increased and undue blood supply in sthenic conditions. It is not the remedy when asthenia prevails.

It may be well to introduce a caution which is most important, if good results be secured from the action of this remedy. *Gelsemium*, more than perhaps any other of our agents, suffers from the fact that the market may be supplied by worthless preparations of the remedy. Any fluid extract or tincture made from the dried drug does not contain the full virtues of the plant, and if the drug has been long gathered will be almost inert. The green root should be gathered in the early spring, and its medicinal virtues should be immediately extracted. The green root fluid extracts, normal tinctures, and the specific medicine *gelsemium* represents the fullest possible virtues of the drug. Further. more, fluid preparations alone, of *gelsemium*, are prescribed by our physicians, as clinical experience has conclusively demonstrated to us that the alkaloid gelsemin does not contain the full virtues of the drug.

**Specific Symptomatology**—The characteristic syndrome which demands the administration of *gelsemium* is found in acute determination of blood to the brain—**acute cerebral hyperaemia**— manifested by a bright flush upon the face, bright eyes with contracted pupils, with a busy restlessness and excitability. With these there is a high degree of nerve tension and consequent irritation, with increased heat of the head and face. There is present in acute cases, elevated temperature, hot skin, usually dry, a sharp and quick pulse, but not always hard. Given in

sufficient doses it slows the heart's action, reduces the temperature and quiets the respiration, speedily producing a restful sense of tranquility.

**Increased arterial and nervous tension** and local or general irritation present in many cases of local inflammation, especially of the kidneys, are specifically met by this agent.

**Therapy**—In the **acute fevers of childhood**, some evidences of nerve irritation are seldom absent. Here the agent exercises its happiest influence. **Muscular twitchings** with the above specific symptoms demand this remedy. If **spasms** supervene, the dose is increased in size and frequency until they are controlled. Often no other agent need be given.

The direct **contra-indication** is congestion, either of the nerve centers alone, or of any organ. The phenomena of dullness, hebetude, obstructed circulation, whether local or general, with normal or lowering temperature, with increasing weakness—asthenia—must be treated with the antitheses of *gelsemium*.

In **acute inflammation** of whatever organ or part, there is likely to be a time during its early course when *gelsemium* is the positively indicated remedy. Its administration should cease when its indications are no longer apparent.

In acute inflammations, especially those of childhood, or in persistent fevers, where reflex irritation threatens to induce convulsions, other fever remedies should usually be suspended for this until all irritation has abated, or until its beneficial action is no longer conspicuously apparent. If its physiological effects appear at any time during prolonged or protracted fever or inflammation, it should be suspended temporarily, or permanently, within the judgment of the prescriber, as its full physiological influence persisted in may impair nerve tonicity, and general tonicity of the muscular system, or of the heart, to such a degree as to retard recovery, or at least to prolong convalescence.

**Fevers** of nearly all kinds in adults, in the early and sthenic stage, are influenced by *gelsemium*, because the above conditions to some degree may be a part of the pathology of increased temperature.

The late Mr. Adolphus claimed that *gelsemium* exercised its first influence upon the heat centers in the cord and medulla. He always gave

*gelsemium* for its influence here, in cerebro-spinal meningitis. Its indications were the bright eyes, contracted pupils, the patient inclined to crowd the back of the head in the pillow. His results were highly pleasing. Recent reports in the treatment of **cerebro-spinal meningitis** in children are proving that *gelsemium* given in conjunction with *echinacea* is proving to be the very best treatment. The results from a large number of observers is very convincing. Where the opisthotonos is extreme, they give both this and *lobelia*—in some cases hypodermically. The relaxation is definitely induced by this method, and the spasms controlled. The use of these remedies in this disease is very rational.

In acute **cerebral, spinal, cerebro-spinal, or meningeal inflammations**, its symptomatology is usually strongly marked at first. If in adults, it may be given at first in pronounced doses, lessened as the symptoms abate or as its physiological action appears. In later stages of these disorders the dosage should be much smaller, or some remedy more directly indicated should be substituted. It should not usually be continued beyond the sthenic stage.

There are some forms of **nervous wakefulness** in which no better soporific can be given than this agent. Begun early in the evening, a few full doses will produce tranquillity and restful repose. If there be busy excitability and extreme restlessness, its influence will be greatly enhanced by combination with *hyoscyamus*. Nervous headache, which drives away sleep, can often be removed and sleep satisfactorily induced with this remedy. The nervous system is in part restored during sleep so induced, and the patient is rested.

In nervous excitation of women consequent upon **acute peritonitis, ovaritis, salpingitis, metritis, puerperal fever, or mastitis**, this agent has no peer. It is especially commended in the early stages, and if hysterical phenomena develop. Given in the early stages in pronounced, but carefully watched dosage, it will occasionally abort the entire condition, especially if the cause has been removed by proper methods. Extreme full doses are sometimes admissible at first.

In **puerperal convulsions** this agent has a conspicuous place. If given in accord with its exact symptomatology, in sufficiently large, often heroic doses, but it must be exactly given. The symptomatology of *veratrum* is more often present than that of this agent in eclampsia or the two may be combined.

In **intestinal inflammation** it has not seemed to me to be often indicated for the actual fever, and yet the reflex nerve phenomena, especially of children, often quickly demand it. It controls nervous or spasmodic pain in these conditions, and I have found it of great service in **appendicitis**. It seems to retard the inflammatory processes. It is of great advantage in the **tenesmus** of **dysentery**, sometimes allaying this troublesome symptom in a single full dose. Usually several frequent, pronounced doses are demanded.

In inflammation within the chest I have not used the agent as often as *bryonia* and *aconite*. Others speak highly of it, and there are conditions when the demands for them are too plain to be ignored. Certain forms of **asthma** are relieved by it quite promptly. Others have had good results from its influence in **whooping cough** and in **laryngismus stridulus**. It controls certain forms of **spasmodic cough** and cough from reflex irritation.

Dr. Bugg, of Georgia, reported a case of hiccough which developed with a severe bronchial cough from a cold. It had continued without cessation for forty-eight hours until the patient was in a condition of exhaustion. The doctor gave him—a previously strong negro—fifteen drops of *gelsemium*, because his eyes were “very bright and the pupils contracted to pin heads.” This medicine was repeated until the spasm was relieved.

In **acute cold**, the whole system is influenced by it, the coryza being marked and all the usual symptoms pronounced. *Gelsemium* given in two or three drop doses, every half hour for a few doses, will often give relief most promptly and satisfactorily. In **epidemic influenza** it has been generally used with signal results in nearly all cases.

In **acute nephritis** it is certainly a sovereign remedy. It at first meets a wide range of the symptoms in a pronounced manner. It reduces the arterial tension, often at once, and consequently the quantity of albumin. It exercises a permanent, soothing influence upon nerves of the entire urinary apparatus in a most satisfactory manner. The quantity of urine is increased, the general nervous phenomena are delayed, the fever abates, and any pain or spasms are controlled. My practice has been to give *cimicifuga* with the *gelsemium* in acute nephritis from cold, but I am positive the beneficial influence could not be obtained without *gelsemium*.

In **post diphtheritic** or **post scarlatinal** nephritis it controls any undue

irritation, but *belladonna* acts upon the actual condition more satisfactorily than *gelsemium*. In **post puerperal nephritis**, I should certainly fail of a cure without this agent. In three very bad cases I gave *gelsemium* in full, large doses with the best results. It anticipates the uremic symptoms, preserves tranquility of the nervous system, and wards off the otherwise almost inevitable convulsions. It is of especial service in the spasmodic retention of urine of hysterical women, or in acute urinary irritation.

**Spasmodic pain** in the urinary organs has no more reliable antidote than *gelsemium*. Spasmodic pain in the bladder, or in the cystic sphincter, is controlled quickly, and **acute cystitis** should be treated with *gelsemium* from the first. The soothing influence of the agent upon the entire nerve distribution of these organs is soon evident. In **spasmodic urethral stricture**, where pain is excruciating and nothing but a catheter will apparently do any good, *gelsemium* in full doses is often all sufficient. I have had two marked cases where the catheter could not be passed, in one case, even under chloroform, where full repeated doses of *gelsemium* relieved the irritation and retention within two hours. I give from two to five drops of the Specific Medicine every twenty or thirty minutes, even if mild physiological symptoms appear. In the **tenesmus of chronic catarrhal cystitis**, it is excellent.

In **Gonorrhoea**, in the acute stages, it is a very prompt remedy, especially if used in conjunction with irrigation of the urethra. This remedy alone will often produce much relief in twenty-four hours. Where there is much excitement with **chordee** no remedy is more prompt.

Spasmodic types of **ovarian neuralgia** and **neuralgic dysmenorrhoea** are controlled with *gelsemium*. It relieves uterine colic and exercises a satisfactory influence in many cases as an emmenagogue, where nervous excitability is present.

In **vomiting of pregnancy**, Dr. Henderson has given ten drops of *gelsemium* hypodermically in extreme cases, controlling the vomiting when the physiological influence appeared. Caution is necessary, especially in asthenic cases.

In **confinement** it dilates a rigid os uteri, especially when the parts are dry and hot, and the edges of the os are hard, thin and unyielding, where nervous excitability is present. It soothes the general nervous system at this time, overcomes erratic, sharp, cutting, nagging pains, that seem to

be of no benefit, preserves the integrity of the nerve force, and if the pains are exaggerated, and the labor does not advance, the labor is sometimes satisfactorily suspended or retarded until all parts are ready for the expulsive effort.

It is a most soothing remedy after labor, relieving nervous excitability preventing or controlling **after pains**, but I do not consider it a proper or safe remedy with which to control these pains, as I am confident that its influence upon the normal muscular contractility of the uterine fibre, causes relaxation, permits uterine hemorrhage, and retards normal involution. Dr. Broadnax made this observation also.

It is a valuable remedy for **hysteria**. It is combined with *pulsatilla* to advantage in young girls. In pregnant women with frequently recurring paroxysms, *cimicifuga*, in small doses, will facilitate its action, as will viburnum or aletris.

Bloyer says "if the use of *gelsemium* be extended to those parts of the organism involving unstriped muscular fiber, we will find that it acts directly upon this class of muscles. These occur in the liver and its ducts; in the kidneys and the ureter, the bladder and the urethra, as we find also, on the womb and ovaries and in the heart. Upon the pelvic organs, especially if used with *pulsatilla*, *viburnum*, *helonias*, or *cimicifuga*, its influence is satisfactory. It certainly conduces to the relief of high tension."

In diseases of the nervous system of a chronic character, the influence of *gelsemium* is beneficial, but not so pronounced. In **excitable mania** it exercises a controlling influence, and if sleeplessness be present its influence is enhanced by combination with *hyoscyamus*. It has exercised a beneficial influence in **epilepsy**, especially in those cases where acute cerebral hyperemia is present.

This agent has its place in **chorea**, but only when its specific indications are present, not in those cases characterized by anemia.

In the treatment of **facial neuralgia**, especially of the fifth pair, its influence is pronounced. It should be used hypodermically over the sciatic nerves in the treatment of **sciatica**. It controls **headaches** from **cerebral engorgement** with nervous irritability and excitability.

It is a serviceable remedy for **migraine** and **tic douloureux**. In persistent



stitchlike pains, in the deep muscles of the back, which often completely incapacitate a man for work of any kind, full doses, just short of its apparent physiological action, will act in a most specific manner.

In **rheumatic stiffness** of the muscles of the neck, often accompanied with sharp pain, this agent should be freely given. In **acuterheumatism** and in **rheumaticfever** it is often sharply indicated. Given in connection with *aconite*, *bryonia* or *rhus tox*, as these are indicated, no better treatment can be instituted.

I consider *gelsemium* a most important heart remedy. The cases are those of **rapid heart** from over excitability; from irritability, with exaltation of nerve force, but where the patient is in full strength. No other remedy need be given in some of these cases. It relieves palpitation so induced and cures **cardiac neuralgia**. It is especially useful in the irritable heart of hysteria, influencing the entire train of symptoms at once. It is contra-indicated in weak heart, and where there are valvular lesions of any considerable character.

In **seasickness** specific *gelsemium* has been used with marked success. A teaspoonful of a mixture of thirty drops in four ounces of water is taken at the time of sailing, and repeated hourly the first day. Afterward it is taken less frequently. In this connection, be it said, in sea-sickness the remedy that cures one person may fail in another, and it is not to be expected that *gelsemium* will affect all alike.

I am inclined to the belief that in the South, its natural habitat, the conditions assumed by acute disease are more directly and specifically influenced by *gelsemium* than in the colder climates. Perhaps those factors of disease in which *gelsemium* is specifically indicated are more frequently induced or increased by the climatic influences of that locality. At least, our physicians in the South, who use the remedy to any extent, use it much more freely, and seem to find its indications present more often than we do in the North.

Recently a number of observations have been made on the action of *gelsemium* in **epilepsy**. One writer used it with *veratrum* in his cases, and has had unusually good results. He endeavors to anticipate the spasms, whenever possible, and gives the remedies in combination between times.

Many physicians have treated **stage fright**, or fear in meeting the public,

or of students in fear of examinations, and have abolished it entirely with five drop doses of *gelsemium*, repeated two or three times, according to the susceptibility of the patient. *Aconite* also acts well here, but in smaller doses.

In the treatment of **tetanus**, Dr. Lewis of Illinois prevented the development of three cases, with *echinacea* for the toxemia, and *gelsemium* and *passiflora* for the spasms, used by the mouth and hypodermically. Dr. Matthew combined twenty drops each of *gelsemium*, phenol, and water as a hypodermic injection. In twelve cases he injected this entire quantity every three to six hours, saving all the patients. This combination has been subsequently used with much success. In 1880 Dr. J. Marion Sims gave *gelsemium* for tetanus and produced very satisfactory cures. He gave forty minims of the tincture every hour or two, reducing it to twenty minims, as the convulsions decreased and continuing this to full convalescence. In the tetanus of horses, it has been frequently used, hypodermically, by veterinarians throughout America. They claim that it cures many cases.

Dr. Smith, of Leesburg, Florida, told me that in the **malarial disorders** which prevail in his locality he found indications for its use in nearly all acute cases and almost invariably obtained prompt and satisfactory results. He has occasion to prescribe larger quantities of it than of all other fever and sedative remedies combined. Dr. Wm. M. Durham, of Atlanta, Georgia, and several other physicians of the South confirmed Dr. Smith's opinion as to the frequency of the occurrence of its indications.

All these physicians unite in the opinion that *gelsemium* quickly brings about that condition in periodical **malarial disorders** in which the antiperiodic, quinine, can exercise its happiest influence. It restores secretion, softens and slows the pulse, reduces nerve excitation and irritation, causes a mild transpiration from the skin, and assists in cleaning the tongue. All these conditions must be present if quinine be given to marked advantage and with no unpleasant results.

These physicians claim further, that given during the time of the administration of quinine, it prevents undue stimulation of a sensitive nervous system, does away entirely in most cases with the tinnitus aurium, and other unpleasant phenomena, and enhances the influence of the quinine in all lines of its action, the desired effect being obtainable by a less quantity of this antiperiodic than would otherwise be required. These suggestions are no doubt applicable in other localities to a degree.

I have heard physicians say that they believed there were times or seasons when *gelsemium* influenced their patients with the same indications much more directly and positively than at other times. Perhaps this is in line with the theory of “epidemic remedial influence” or “epidemic remedial conditions” advanced by Rademacher and referred to by Scudder and other writers.

**Co-operative Agents:** *Cimicifuga racemosa* is an excellent remedy with which to combine *gelsemium* where the **muscular system** is involved. It promotes the action of *gelsemium* in all heart troubles, and in irritable and inflammatory conditions of the entire urinary tract. Opium intensifies the effects of this agent, but is slower in its action and its effects are not so quickly dissipated. They are not often prescribed together by those who are familiar with the action of *gelsemium*.

*Lobelia* and this agent will be found to act well together in certain selected cases; in severe convulsive manifestations especially. When **morphine** is given for relief of pain during powerful spasms, it acts as an antispasmodic. *Gelsemium* combined with it when indicated will be found to exercise all of its influence and control the pain which would otherwise continue, and thus prevent the antispasmodic effects of the remedy to an extent. Dr. Owen of Texas dissolves one grain of morphine in 240 grains of specific *gelsemium*. He gives this for **premature labor pains** in doses of from ten to fifteen drops, and in other conditions where both remedies are indicated, he gives from ten to twenty drops, as in severe persistent lumbago, sometimes with immediate results.

Other agents which act harmoniously with it to a greater or less extent are *passiflora incarnata*, the bromides, and chloral hydrate, *conium maculatum*, *physostigma*, *veratrum*, and *Jamaica dogwood*. It works nicely in fevers in careful combination with *aconite*.

**Antagonists**—This agent is antagonized by alcohol, by strychnine, *nux vomica*, *digitalis*, *ammonia* and, to a certain extent, by caffeine and *belladonna*.

**Antidotes**—In overdoses, heat applied, with electricity, and alcoholic stimulants, friction, artificial respiration, and hypodermics of atropine or strychnine should be administered. Strong coffee and the physiological salt solution are active antidotes also.

## **GENTIANA.**

## ***Gentiana lutea.***

Synonyms—Gentian, Yellow Gentian.

### **CONSTITUENTS—**

Gentiopierin, gentisic acid.

### **PREPARATIONS—**

**Extractum Gentianae**, Extract of Gentian. Dose, from two to ten grains.

**Extractum Gentianae Fluidum**, Fluid Extract of Gentian. Dose, from five to thirty minims.

**Specific Medicine Gentian.** Dose, from five to thirty minims.

**Physiological Action**—Tonic in large doses, irritant, causing nausea, vomiting and diarrhea. The fresh root is more active than the dry.

**Therapy**—This is a popular stomachic tonic in cases where enfeeblement has occurred as the result of protracted disease. It has long been given in combination with other tonics or in wine, as an agent in the **dyspepsia** of the aged, or of gouty patients, and in the gastric inefficiency of infants and children, and to a good advantage in **catarrhal diarrhoea**.

As a tonic to the stomach, and the other organs of digestion and appropriation, in those cases where the system is greatly debilitated by protracted disease, it is one of the best remedies, especially by exhausting fevers of malarial origin. It is of much value in malarial conditions generally and has been used to a great extent instead of quinine.

When the periodicity has been overcome by quinine this is a rapid **restorative to the system**.

The tincture of *gentian* is given freely in conjunction with other tonics and with alteratives. It is given with the tincture of iron in the treatment of **anemia** complicating **malarial disease**. It is given in conjunction with the iodide of potassium where a tonic and alterative is demanded, and given alternately with hydrocyanic or hydrochloric acid, it is sometimes of great value in the **vomiting of pregnancy**.

This agent is perhaps the most valuable of this class. It can be depended

upon as a bitter tonic and constant use will establish a confidence in it.

## **GERANIUM.**

## ***Geranium maculatum.***

Synonyms—Cranesbill, Crow Foot, Alum Root.

### **CONSTITUENTS—**

Tannic acid, gallic acid, red coloring matter, a resinoid.

### **PREPARATIONS—**

**Extractum Geranii Fluidum**, Fluid Extract of Geranium. Dose, from ten to sixty minims.

**Specific Medicine Geranium**. Dose, from one to ten minims.

**Physiological Action**—A tonic astringent, with alterative properties. It influences the mucous structures, directly improving their tone and function, overcoming relaxation and debility with a marked improvement of the capillary circulation.

From long experience, I have learned to esteem *geranium* more highly than any other vegetable astringent, where a simple tonic astringent action is needed. It is palatable, prompt, efficient, and invariable in its effects, and entirely devoid of unpleasant influences.

**Specific Symptomatology**—Where there are relaxed, atonic or enfeebled mucous membranes, **in the absence of inflammatory action**; debilitated conditions remaining after inflammation has subsided; excessive discharges of mucus, serum or blood with these conditions, this agent is indicated.

**Therapy**—In sub-acute diarrhoea, *geranium* exercises an immediate influence, a single full dose producing a marked impression and improving the tone of the entire gastro-intestinal tract from the first. In **chronic diarrhea**, no matter how stubborn, it may be given with confidence if the specific conditions are present. In doses of ten drops every two hours, diarrheas of the above described character will promptly subside. Active inflammation must be subdued before the agent will act readily. It is the remedy for the general relaxation of the gastro-intestinal tract in childhood, with protracted diarrhea. Any extreme activity, or hyper-activity of the liver, must be corrected, and this agent will usually do the rest. In catarrhal gastritis, where there is profuse secretion with a tendency to ulceration, with, perhaps a mild hemorrhage, this agent is

very useful.

It has been claimed that **incipient gastric cancer** has been cured with *geranium*, and there is no doubt that it takes precedence over many other remedies, when a diagnosis between severe gastric ulcer and incipient cancer cannot be made without exploratory operation. Its range seems much wider than that of a simple astringent, as it controls pain and rapidly improves the general condition. Half of a dram may be given every three hours, but smaller doses may do as well.

It has an influence over **passive hemorrhage** unlike that of other agents, but in violent cases of recent origin it is not the best remedy. The author treated a case of **haematuria** for nearly two years with absolutely no permanent impression upon the condition. Tubercular bacilli were found in abundance in the blood, which was usually arterial in character and steady in quantity. All of the usual remedies were used. Finally fifteen drops of *geranium* were given every two hours, and in two weeks the blood was absent and had not returned at the end of three years, except mildly when the patient persistently overworked. The patient improved slowly in general health and so continued after several years.

Others of our writers refer to its use in **phthisis pulmonalis**. They claim that all the symptoms are retarded by its use, and that it improves the general tone and overcomes **night sweats**. It may have a subtle influence upon tubercular bacilli or the conditions induced by them, not understood, which would account for its phenomenal action in the conditions referred to.

One physician gives *geranium* in **chronic dysentery** by enema. He uses a dram in sufficient warm water, repeating it as often as necessary. If it induces colic, he adds a little *colocynth* to the enema. It does not check gastric secretions, nor suspend peristalsis. It is a positive tonic to the mucous linings of the entire intestinal tract, especially in colliquative diarrhea.

I used *geranium* in a case of **cirrhosis of the liver** with **ulceration of the duodenum**, with fine results. The disease was held in check for many months.

Dr. Davy treated a case of **habitual menorrhagia** with *geranium* associated with *trillium*. Of all concentrations, he would add one-half to one grain to each dose rubbed up with a little sugar, three or four times a day during

the menstrual periods, continuing through the period in bad cases in slightly increased doses.

**GLYCYRRHIZA.**                      ***Glycyrrhiza glabra.***

Synonym—Liquorice.

**CONSTITUENTS—**

Glycyrrhizin, glycyramarin, asparagin, resin, sugar, starch.

**PREPARATIONS—**

**Extractum Glycyrrhizae**, Extract of Glycyrrhiza, (Extract of Liquorice). Dose, *ad libitum*.

**Extractum Glycyrrhizae Fluidum**, Fluid Extract of Glycyrrhiza. Dose, *ad libitum*; of the powdered root from 15 to 60 grains.

**Therapy**—The agreeable taste of *liquorice* in any form covers to a practical extent the taste of very many disagreeable remedies. Acrid and bitter tastes are well disguised by it. A syrup made by adding two parts of the fluid extract to fourteen parts of simple syrup, will disguise the bitter or otherwise unpleasant taste of a large proportion of the fluid extracts. The taste of quinine can be concealed by it to a considerable extent.

Its demulcent properties render it useful in inflammation, or irritation of the mucous membranes of the lungs and bronchi. In combination with *ipecac*, *lobelia*, *squill*, *sanguinaria*, or ammonium chloride, an excellent expectorant mixture or cough syrup may be extemporized, as this agent modifies any acrid or irritating influence the other agents may exhibit.

The virtue of the **Compound Liquorice Powder** of the dispensatory does not depend upon the properties of the liquorice, only as it imparts to the whole a pleasant taste.

**CONDURANGO.**                      ***Gonolobus condurango.***

Synonyms—Condurango (Cundur-angu, vine of Condor).

**PREPARATIONS—**

**Extractum Condurangonis Fluidum**, Fluid Extract Condurango, not miscible with water without precipitation. Dose, one-half to one fluid dram.

**Therapy**—The influence of the agent is exercised directly upon the stomach as a tonic and corrective of perverted action. It is of service in **gastric ulcer** and in the early stages of **cancer of the stomach**, for which it was originally lauded as a cure. It is depended upon, by some enthusiastic users to retard progress of some cases of this disease, and to relieve distress and urgent symptoms when fully developed. It cannot be curative. It will be found of service, probably, in catarrhal gastritis with extreme atonicity and threatened ulceration. In these cases its virtues as a tonic and restorative will find exercise to the full extent of their influence.

It deserves thorough investigation and faithful trial. It may be given in the form of a warm decoction with excellent advantage. A wine of *condurango* is prepared which has good influence upon the stomach. Half an ounce may be taken with the meals.

A Homeopathic writer gave *condurango* internally to a man 74 years of age who had small crusts forming on his lower lip for a long time suggesting the beginning of **cancer**. He gave a Homeopathic trituration and satisfactorily cured the case. This remedy being recommended externally should be tried internally for other cancerous conditions. In the above case a chronic catarrh of the stomach where there was vomiting of a green slime after dinner with hyperacidity and emaciation was inadvertently cured with the treatment as stated.

## **GOSSYPIUM.**

## ***Gossypium herbaceum.***

Synonym—Cotton.

### **CONSTITUENTS—**

An acrid resin, glucose, starch, fixed oil, tannin.

### **PREPARATIONS—**

**Extractum Gossypii Radicis Fluidum.** Fluid Extract of Cotton-root Bark. Dose, from one-half to one dram.

**Specific Medicine Gossypium.** Dose, from five to twenty minims.

**Purified cotton** (Surgeon's cotton), collodion.

**Therapy**—*Gossypium* is used as an **emmenagogue** and **parturient**.



It has a wide reputation among the slave women of the South as an abortifacient. It was used by them in the form of a strong infusion of the green root and is of value in suppression of the menses from whatever cause. It produces firm, regular and strong uterine contractions, much resembling *ustilagomaydis* and *cimicifuga* in its action. It may be used in **uterine inertia** to increase the natural expulsive power of the womb and prevent the dangers of post-partum hemorrhage. It is a **hemostatic** of some power being used principally to control the hemorrhage of **uterine fibroids** and **incipient cancer**. It is a valuable agent for metrorrhagia and menorrhagia, but is not in general use, as the uterine tonics and stimulants in common use accomplish these results in their wider beneficial influence.

### ***Grindelia robusta.***

Synonyms-Wild Sunflower, Gum plant.

#### **PREPARATIONS—**

**Fluid Extract of the leaves and flowering tops.** Dose one-half to one fluid dram.

**Solid Extract.** Dose, 5 to 15 grains.

**Specific Medicine Grindelia—**Dose, from two to ten drops.

**Physiological Action—**The influence of the agent is exhibited on the heart, at first by a quickened pulse, subsequently by retarding it. It elevates the blood pressure at first, subsequently lowering it. In overdoses it is toxic, the specific influence of the agent on the respiratory nerves being shown by paralysis of the muscles of respiration.

**Specific Symptomatology—**The agent is specific to **asthmatic breathing**. It must be given in full and frequent doses, and the effects, although not striking from a single dose, are soon evident and are more or less permanent. It soon relieves the effort of breathing and produces expectoration, but on continued use the entire train of symptom slowly abate, and if persisted in the paroxysms do not soon recur.

**Therapy—**In spasmodic asthma, pure and simple, with complete relief between attacks, it is not the remedy. It is an excellent antispasmodic expectorant in all chronic spasmodic bronchial coughs, and in chronic bronchitis, Asthmatic bronchitis is often benefited, from the first dose, by its use. In whooping cough it is of value in combination with other more specific agents.

It will relieve the **irregular heart** action often accompanying chronic coughs, and improve the strength and general character of that organ.

*Grindelia* has relieved many cases of **hay fever** and has cured some few, for the time being. In the chronic cough following pneumonia the agent has been used with good results.

As an application to the skin when poisoned by *rhus toxicodendron*, this agent is valuable. It acts promptly and satisfactorily.

It is curative also in the bites of insects, quickly antidoting the poisoning.

As applied to old indolent ulcers it has given unusual satisfaction in a few cases, although not often used.

**Co-operatives**—It may be combined with good results with *lobelia*, *stramonium*, *drosera*, or *ipecac*, and in some cases for continued use, small doses of the iodide of potassium will act nicely with it.

### ***Grindelia squarrosa.***

*Grindelia squarrosa* is closely allied to the *grindelia robusta*, but is in general a less leafy and bushy plant, and is smaller. Some authors are not satisfied that there is sufficient difference between them to make them distinct plants. In the West they are not recognized as the same.

**Therapy**—Dr. Webster is authority for the statement that *grindelia squarrosa* is specific in its **anti-malarial** properties. He is very positive concerning its influence upon **headaches**, and especially those of malarial origin. Headache present where there are masked intermittent symptoms, headache accompanied with dizziness, and some nausea, where the subject walks with the sensation that he is going to stagger. It seems as though his equilibrium were uncertain, or where there is mild staggering and irregular gait, where the head feels light and dizzy all the time. In this form, *grindelia squarrosa* is a positive and specific remedy, decided and satisfactory in its action.

Another form of headache which this agent will cure is one that seems to follow, and depend upon **slowautointoxication**. It is persistent, day after day, and there is **dullness, drowsiness, and dizziness**. There is apt to be

torpor of the liver and spleen in these cases. There is lassitude, and the patient tires easily. A dull headache is present when he awakes in the morning, and with some exacerbations continues all day. This form is quickly cured with this remedy. A tincture made by covering the fresh plant with ninety-eight per cent alcohol is required to relieve this headache. Give from ten to fifteen drops of this tincture every two or three hours.

As a remedy for chronic **enlargement** of the **spleen**, and for the symptoms present in that condition, Webster claims that the agent is superior to *polymnia*. Where there are persistent attacks of malaria, and where the system needs a permanent tonic, this agent is of great importance. It promotes the appetite, increases the functional activity of both the liver and spleen, in a normal and very satisfactory manner, and in longstanding cases, the periodicity of all the symptoms, whether of the fever or chill, is overcome by this remedy in a manner superior either to quinine or arsenic. The remedy is best obtained from low, swampy, marshy ground. That which is found in Colusa County, Cal., where Dr. Bundy collected his specimens, is found to be the best.

## **GUAIACUM.**

## ***Guaiacum officinale.***

Synonyms—Guaiacum wood, Lignum vitae, Lignum sanctum, Lignum benedictum.

### **CONSTITUENTS—**

A resin and essential oil.

### **PREPARATIONS—**

**Tincture.** The **resin** or **gum guaiac**. While we have described the wood and the tree from which the resin is obtained, the medicinal principle is located in the gum from the wood, which is procured by natural exudation. A wound in the bark of the tree will permit the exudation of the juice. The gum can also be obtained from the chips of the wood boiled in salt and water. At other times large pieces of the wood are heated, the heat causing the gum to exude. The gum is met with, in amorphous hard dense masses, of varying sizes. It has a sweetish, faintly bitter taste, somewhat acrid. It becomes tough when chewed and may be melted with a moderate heat. When cold it may be readily reduced to powder. It is practically insoluble in water. The resin contains guaiacol, guaiacolum, kersol and protocatechuic acid.

The dose of the **powdered resin** is from one to twenty grains.

The dose of the **tincture** is from one to four drams.

The **ammoniated tincture** may be given in doses of from ten to forty minims.

**Specific Symptomatology**—**Inflamed tonsils**, swollen, tumid and painful. Painful deglutitions. Dribbling of saliva. Persistent dryness of the throat, with difficulty in swallowing. **Rheumatic** difficulty, accompanying **tonsillitis**. Rheumatic disease, accompanied with any soreness of the throat.

**Therapy**—This remedy is a most active astringent in full doses, and yet in overdoses it acts as a cathartic. In medium doses it influences **acute dysentery** and **diarrhea**, and other relaxed conditions of the bowels. In very small doses, from the one-twenty-fifth to the one-tenth of a grain of the resin, it is said to cure some cases of **habitual constipation**, those depending upon extreme atonicity.

Prof. Locke says the remedy is not available when there is a high degree of inflammation, with great vascular excitement.

The agent has long been used as a remedy for **chronic rheumatism**. It seems to influence the elimination in a satisfactory manner. In **rheumatic sore throat** and **rheumatic pharyngitis**, it is a good remedy. The indications for *rhus toxicodendron* will often be found present with the indications for this agent. *Guaicum* of old, had a reputation in the cure of **syphilis**. It has alterative properties and is useful in some cases of skin disease of a chronic character, but we have superior remedies.

## **HAMAMELIS.**

## ***Hamamelis virginica.***

Synonym—Witch-hazel.

### **CONSTITUENTS—**

Tannin, volatile oil, a bitter principle.

### **PREPARATIONS—**

**Extractum Hamamelis Fluidum**, Fluid Extract of Hamamelis. Dose, from ten to sixty minims.

**Distilled Extract of Hamamelis**. Dose, from ten to sixty minims.

**Specific Medicine Hamamelis**. Dose, from five to sixty minims.

**Specific Symptomatology**—Soreness of muscles, muscular aching, a bruised sensation, soreness from violent muscular exertion, soreness from bruises and strains, soreness and muscular aching from cold and exposure, relaxed mucous membranes, dark blue membranes from venous stasis, veins dilated, relaxed, enlarged, and full—varicosis.

**Therapy**—Internally it is given with the above indications as a remedy for **sore throat** of whatever kind, with feeling of extreme soreness, and with dark-colored membranes.

It is used in **tonsillitis** and **diphtheria**, in **phlegmonous ulcerations** of the mouth and throat, and in **acute catarrh**. If there is **hemorrhage** from the post-nasal cavity, or from the teeth, or from spongy gums, it is a useful remedy.

It is valuable when there is excessive **catarrhal discharge** from dark, relaxed mucous membranes, and in catarrhal or watery **diarrhea** with a tendency to passive hemorrhage of dark blood.

It has conspicuous virtue in the treatment of **hemorrhoids** with the specific indications. The fluid extract in fifteen drop doses every two hours will quickly effect a cure in recent cases, and will greatly benefit chronic cases, its influence being greatly enhanced if combined with collinsonia. In relaxation of the mucous membranes of the rectum and in **prolapse** of the **bowel**, it is useful. In these cases the distilled extract should be applied externally while the fluid extract is given internally.

It is a good remedy in relaxation of the vaginal walls with **leucorrhea**, and in catarrh of the womb, also in passive hemorrhages from these parts, especially if there be soreness or extreme tenderness. Externally the distilled extract is of first importance in soreness of the muscles, or aching of parts. In bruises, sprains and muscular lameness its application gives prompt relief. If applied hot it is particularly effectual. In the general aching, lameness and muscular soreness, following a **severe confinement**—a source of extreme discomfort, often greatly retarding recovery—this agent applied hot will give immediate relief, a measure it is cruel to neglect to advise, in these cases, as it acts at once. In lame and **sore breasts** it may be applied, to immediately relieve the soreness, but other remedies should be given for acute inflammatory action.

Its indications would suggest it as an excellent remedy in **rheumatism**,

being of value externally and in conjunction with other remedies.

Applied to **burns** and **scalds** it gives prompt relief. Ten grains of menthol dissolved in four ounces of the distilled extract applied to a burn will stop the pain at once and will promote the healing. It is best applied by saturating a soft cloth with which the burned surface may be covered.

## **HAPLOPAPPUS.**                      *Haplopappus laricifolius*

Synonym—Herba del Pasmó, *Ericameria laricifolia*.

**LOCALITY**—Texas, New Mexico, Arizona, California and Northern Mexico.

This may be closely related to *damiana*. We insert it here, that it may be kept before the minds of our readers until its properties are determined. Webster and others mention it as a remedy in **tetanus**. Its infusion is used by the native Mexicans and Spaniards for this condition. In **convulsions—epileptic, hysterical and puerperal**—it has been used. Its anti-spasmodic influence when used hypodermically must be studied.

More recent writers confirm Prof. Webster's statements urging its use in **tetanus**. In some parts of California, and New Mexico, there is but little fear of tetanus, as they administer this remedy freely, almost ad libitum. It is not poisonous, but few if any unpleasant results having been observed from its action. It is given in the convulsions of childhood, whatever the cause may be. A number of physicians confirm its influence in this class of disorders.

Several physicians have used the remedy in **chorea**, and claim that it is superior to other agents in certain persistent, otherwise intractable cases. It has controlled the spasms of **meningitis**, and will probably be an important addition to the specific medication of that disease. In puerperal convulsions, reports are not sufficient to direct us in its application. It has been observed that when **palpitation** of the **heart**, or serious disturbance of the action of this organ from a high degree of nervous excitement is present, this agent is curative. It must have further investigation.

## HELLEBORUS.

## *Helleborus niger.*

Synonym—Black Hellebore.

### CONSTITUENTS—

Helleborin, helleborein, gum, resin, fat.

### PREPARATIONS—

**Vinum Hellebori Compositum**, Compound Wine of Hellebore. Dose, one-half ounce to two ounces.

**Specific Medicine Hellebore**. Dose, one-tenth to three minims.

**Physiological Action**—*Black Hellebore*, when locally applied, causes irritation of mucous membranes and of the conjunctiva, inducing redness, swelling and increased secretion. A moderate dose taken internally produces no effect, but a considerable quantity causes loss of appetite, nausea, vomiting, pain and inflammation of the stomach and bowels. Medicinal doses strengthen the heart and increase the force of the pulse; while toxic doses cause paralysis with rapid pulse and sudden arrest of the heart. The effect on the nervous system is partial paralysis with tremors, followed by violent convulsions.

The agent in its maximum dosage is a drastic hydragogue cathartic in its fresh active form. It is emetic also and emmenagogue. In overdoses it readily produces hyper-catharsis and hyper-emesis. It is a constituent of proprietary pills, but is not widely used in general medicine. In small doses it acts as a stimulant to the liver and to the secretory glands of the gastro-intestinal tract.

**Therapy**—In **hysteria**, **melancholy**, **mania** and other mental conditions in which the **abdominal organs** are seriously at fault, it is prescribed with benefit.

The agent is prescribed in dropsical conditions where there is great inactivity on the part of the liver, with torpidity of bowels, with general anasarca or pericarditis or hydrothorax. It is not always the best remedy even in these conditions.

The agent is a local anesthetic, especially to the conjunctiva. Helleborein, a crystalline glucoside, in solution dropped into the eye, will produce anesthesia of the structures through the cornea while the sensibility of the contiguous structures is not impaired. It is not in

general use for this purpose.

Where there is burning of the skin, sensitiveness in distinct areas, especially of the nates and thighs or flashes of heat, *hellebore* is specific. It is given from five to twenty drops in four ounces. of water; a teaspoonful every hour.

**Physiological Action**—This is a drastic hydragogue cathartic. It is exceedingly irritating and produces a profound revulsive or derivative effect.

**Therapy**—In **apoplexy** or in sudden **paralysis** from cerebral hyperemia, or from rupture of the cerebral vessels, a profound derivative influence may be at once obtained from an active dose of croton oil. In acute **cerebritis**, or in **meningitis**, or in violent delirium, or furious mania in adults, it is sometimes beneficial. Its use in accordance with present methods of treatment is very limited, many physicians finding no place for it at all.

Its external use produces active counter-irritation. This pronounced influence was once thought a necessary measure in **pneumonitis** and **pleuritis**, and it was freely used in inflammatory rheumatism, and in sciatica and other **persistent neuralgias**. It was used in cerebral and cerebro-spinal meningitis, and in cases of excitable delirium and acute mania.

Its influence is too irritating and prostrating for dropsical cases which are usually enfeebled from disease.

## **HERACLEUM.**                      *Heracleum lanatum.*

**Synonyms**—Masterwort, Cow Parsnip.

### **CONSTITUENTS**—

The root contains a volatile oil, and a crystallizable substance containing heraclin.

### **PREPARATIONS**—

A **tincture**, and a **fluid extract**. The dose of the tincture is from five to sixty minims. Fluid extract from two to twenty minims.

**Specific Symptomatology**—Blood dyscrasia, with general local



manifestations. The tongue is heavily coated with a pasty coat or furred. The mucous membranes are of a bluish or leaden color. The membranes of the throat are discolored, with very sluggish circulation, appearing as if they would slough. The breath has a bad odor. There are erosions of the mucous membrane of a whitish character. The pulse is full and sluggish, and there may be a low grade of fever. In some cases the temperature is high, with a slow pulse, the patient is drowsy, and there is general capillary stasis.

The remedy has not received general attention. Felter and Lloyd give very limited action to it, but Dr. Vassar, of Ohio, has made some extended observations, which are worthy of note, and should be confirmed or disproved, by future thorough investigation.

**Physiological Action**—The doctor says the plant must not be confounded with the wild parsnip, and similar plants. A good preparation of the green root must be obtained to produce good results. The remedy is an irritant to the skin, sometimes causing inflammation. Its poisonous properties are similar to those of the wild parsnip. It acts upon the nervous system as an antispasmodic. It produces, when taken in the mouth, a sensation of tingling, prickling, a benumbing sensation upon the throat, fauces and tongue, similar to that of *echinacea*, *aconite* and *xanthoxylum*. In fact, the doctor compares it in its entire influence, with *echinacea*. It stimulates the pulse, and strengthens the capillary circulation. With the tingling and numbness of the throat, is difficult deglutition. Its antispasmodic influence seems to be exercised independent of the alterative influence the agent would exercise over depraved blood, as a cause of spasms.

**Therapy**—It is given in **general spasm** in **puerperal convulsions**, and in epilepsy. While Doctor Vassar has not used it in **meningitis**. his knowledge of its influence suggests that it would be a valuable remedy in that disease. In the treatment of convulsions, he would give as high as thirty drops of the strong tincture. In the treatment of puerperal convulsions he gives it as high as dram doses, until the patient is under control. He considers it as useful as *gelsemium* or *veratrum*. He has used it in several cases. He gave it in one extremely severe case of **puerperal fever**, where the temperature was 106 degrees, and obtained highly satisfactory results. In this case, he gave it in conjunction with small doses of *jaborandi*. He has treated several cases of **epilepsy** with it, two of which were completely cured. The others were benefited. He has given it in **tonsillitis**, **diphtheria**, and ulcerated sore mouth. As a vegetable antiseptic, it has many of the properties of *echinacea*, and some that,

*echinacea* has not. He has given it in cases of blood poisoning, with good results, but has not had an opportunity to observe fully, concerning its action for the same purposes, that *echinacea* is given as a corrective of bad blood.

He believes that it exercises an influence upon the capillary circulation of the spinal cord, and upon the capillary circulation in general, similar to that of *ergot*. He has obtained results from its use in several cases, similar to those previously obtained from *ergot*.

He has given it in glandular swellings, where there is threatened destruction of tissue, where the parts seem lifeless, or where there were foul and indolent ulcers.

He has given it in **nervous dyspepsia**, with all the phenomena of that complicated disorder. It is given in small doses, in these cases. It overcomes a tendency to flatulence, preventing flatulent decomposition of the food, and favoring digestion. It is especially demanded when there are offensive gases, discharged after meals. When there is an excess of acidity in the stomach or bowels, from any cause this acidity should be previously neutralized.

The sore mouth or sore throat that calls for this remedy is that accompanied with a cadaverous fetor to the breath, where there is a bad taste in the mouth, the tongue very dirty and pasty in its coating. He intends to investigate it in diphtheria farther, not having had an opportunity to make an extended observation in this disease.

In the treatment of the disorders of women, he finds it applicable in amenorrhea, and especially in dysmenorrhea. In these cases the pains being quite severe, before or immediately the flow starts, the agent seems to act like *gelsemium*. If other specific indications are present the indicated remedy is prescribed in conjunction with this. The agent will be found useful in certain forms of kidney trouble, and in the uric acid diathesis. It must have further careful investigation as it promises to be an important remedy.

## **HUMULUS.**

## ***Humulus lupulus.***

Synonym—Hops.

**Part Employed**—The strobiles.

**CONSTITUENTS**—

Volatile Oil, Resin, Trimethylamine, Asparagin, Tannin.

Lupulinum, **Lupulin** is a granular powder separated from the strobiles of hops and is bright brownish-yellow in color, with the odor and taste of the drug, in which its principal strength resides. Dose, from five to ten grains.

**PREPARATIONS**—

**Tinctura Humuli**, Tincture of Hops. Dose, from one to two drachms.

**Extractum Lupulini Fluidum**, Fluid Extract of Lupulin. Dose, from ten to sixty minims.

**Specific Lupulin**. Dose, from one to ten

**Action**—Tonic, nervine, hypnotic.

**Physiological Action**—*Hops* stimulate the stomach, improve its tone, encourage the appetite and assist the digestion. They add force and volume to the heart, and when that organ is irregular from nervous irritation or from reflex gastric irritation, act as a soothing agent to overcome those conditions.

**Specific Symptomatology**—The influence of this agent is marked in those cases of **nerve irritation** and **wakefulness** where anxiety and worry are the cause. In this it is somewhat similar to *hyoscyamus*. It is more particularly serviceable where **sexual irritation**, spermatorrhea and dread of impotence are present, and where there is abnormal or erratic, and at times violent sexual excitement.

**Therapy**—In all forms of nervous excitement it is soothing in its influence, and a hypnotic of much value. This is especially the case in **hysteria** and in the sexual irritation of females.

In mild conditions of **insomnia**, with persistent worry, in patients recovering from neurasthenia, and in hysterical patients, or in cases where there is no organic difficulty or pain to cause the wakefulness, small and frequent or single full doses of this agent will have a marked tranquilizing effect. A pillow of hops will have a soothing influence in some of these cases, and may be all that is needed to induce sleep.

Fomentation made by dipping a muslin bag filled with hops into hot

water, wrung out and applied over painful **acute local inflammations** and painful swellings, is a favorite domestic measure. Applied to **facial neuralgia**, or over an ulcerating tooth, or in the earache of children, it allays pain and promotes sleep.

In the treatment of **delirium tremens** a capsule containing a grain of *capsicum* and eight grains of *lupulin* given during the intense excitement preceeding the attack, will sometimes ward it off. Half of a teaspoonful of each of the tinctures in combination may be given. A strong infusion of *hops* and *cayenne pepper* is excellent in this case to be drunk hot as demanded.

The **anaphrodisiac** influence of this agent suggests its use in **priapism** and in **chordee**, and in spermatorrhea where these conditions exist, and where there is sudden active determination of blood to the parts. It is not the remedy when the parts are cold, weak, inactive and non-excitable, and where the erections are feeble or impossible. Five to ten grains of *lupulin* at bedtime, with ten or fifteen drops of the fluid extract of *ergot* in those cases where the tendency to fullness of the circulation is marked, will preserve rest and quiet for the night. A full dose of camphor monobromate with *lupulin* is excellent.

A suppository containing *lupulin* and camphor monobromate, five or six grains of each, or the one-fourth of a grain of ergotin, may be inserted into the rectum at bedtime with fine results.

The sedative effect of *lupulin* is exercised to a good advantage in the treatment of nocturnal emissions by its influence in soothing the nerve centers, promoting rest and sleep, especially in hysterical patients, and in those who suffer from irritation in the genito-urinary tract and in the control of sexual excitement and desire. It prevents cerebral hyperemia and corrects disorders of the gastro-intestinal tract. It modifies the secretion of the gastric fluids inhibiting the output of acids.

## **HYDRANGEA.                      *Hydrangea arborescens.***

Synonyms—Wild Hydrangea, Seven Barks.

### **PREPARATION—**

**Extract of Hydrangeae Fluidum.** Fluid Extract of Hydrangea. Dose, from. ten to thirty minims.

**Specific Medicine Hydrangeae**—Dose, from five to thirty minims  
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Thirty minims in two ounces of water, a teaspoonful every ten or fifteen minutes, will quickly relieve acute, quick, cutting, urethral pains, especially immediately after labor.

**Specific Symptomatology**—Frequent urination with heat, burning, accompanied with quick, sharp, acute pains in the urethra; partial suppression of urine with general irritation and aching or pain in the back, pain from the passage of renal sand are direct indications for this agent.

I am convinced after a lifetime of experience that it is more specifically, more universally a sedative to **pain** and distress in the kidneys and urinary bladder than any other one remedy.

**Therapy**—This agent is a soothing diuretic, exercising a mild, but permanent tonic influence upon the entire mucous structures of the genito-urinary system. It is an important remedy in acute nephritis. I have for many years combined it with *gelsemium*, or *gelsemium* and *cimicifuga*, and have obtained most satisfactory results. In lithemia with permanent backache from the kidneys irritation from the presence of uric acid and phosphatic crystalline precipitates, the continued use of this agent is usually curative. In urinary irritation of an acute character, or that induced by local causes, as that following confinement, this agent is often curative in a few hours. Any excess of acidity or alkalinity, however, should be corrected by other agents.

About the year 1830 experiments were conducted to prove its influence in relieving pain caused by the presence and passage of urinary calculi, and favorable reports were made of its direct usefulness. Its influence controlled the pain in a satisfactory manner, relieved general distress, and soothed irritation. Enthusiasts claimed that it dissolved the stone in the bladder.

Infusions, in some cases, are more satisfactory than exact pharmaceutical preparations. The fluid extract in hot water is often more prompt in its action. The agent is soothing, also, to the mucous surfaces of the respiratory passages.

## HYDRASTIS.

## *Hydrastis canadensis.*

Synonyms—Golden seal, Yellow puccoon.

### PREPARATIONS—

Specific Medicine Hydrastis , alcoholic, contains a bitter coloring principle, berberine, and the white alkaloids, hydrastine and canadine, and resinous and oily principles. Dose, from one to ten minims.

**Colorless Hydrastis**, non-alcoholic, contains the colorless alkaloids and the inorganic salts dissolved in glycerine and water.

**Extractum Hydrastis Fluidum**, Fluid Extract of Hydrastis. Dose, three to twenty minims.

**Extractum Hydrastis**, Inspissated Extract, Extract of Hydrastis. Dose, one to five grains.

**Tincture of Hydrastis**. Dose, from twenty minims to two drams.

**Hydrastis Pulvis**, Powdered Hydrastis. Dose, from three to fifteen grains.

**Berberine** (Hydrastin, yellow). Dose from one-half to five grains.

**Hydrastine** (white). Dose, from one-tenth of a grain to three grains.

### CONSTITUENTS—

Berberine, Hydrastine, Canadine.

**Physiological Action**—In its influence upon the nervous system, this agent has stimulating properties in part analogous to those of strychnine. Its influence is more slowly developed and more permanent. In extreme doses it blunts the sensibility of the terminal nerve filaments, and convulsions have resulted from its use.

It stimulates the respiration and circulation, imparting tone and increased power to the heart's action, increasing arterial tension and capillary blood pressure. It influences blood stasis similarly to ergot and belladonna.

The tone imparted to the muscular structure of the heart differs from that imparted by strychnine in being permanent and not spasmodic or intermittent in character. It influences muscular structure everywhere in the system in the same manner. It stimulates normal fibrillar contractility and increased tonus, encouraging the nutrition of muscular structure. It inhibits the development of superfluous muscular tissue and abnormal growth within that structure. It is thus most valuable in altered

conditions of the heart muscle.

In its influence upon the gastro-intestinal tract it is tonic, restorative and soothing in its action. It promotes the appetite, increases the secretion of the gastric and intestinal juices and conduces to a restoration of the normal condition. It increases peristaltic action and general muscular tonus in the structure of walls of the stomach and intestines.

The alkaloids have been given in sufficient quantities to produce death in the lower animals in experimental investigation, but it cannot be considered toxic in medicinal doses. It produces convulsive action, followed by decreased irritability of the vagus, the blood pressure is suddenly decreased and the heart fails in diastole.

Its elimination is comparatively active and is largely accomplished through the kidneys.

**Therapy**—In its therapeutic influence its widest range of action is upon the **stomach**, in **functional disorders** of that organ. It is the most natural of stimulants to the normal function of digestion. Its influence upon the mucous surfaces renders it most important in **catarrhal gastritis** and gastric ulceration. It supersedes all known remedies as a local, and also as a constitutional tonic when this condition is present.

In administering this remedy, if there be irritation, the fluid and less bulky preparations are preferable. If there be marked **atonicity** with inactivity of the **stomach** and lack of nerve sensibility, the powdered drug in five grain doses is the most useful. This increases the tone, reduces abnormal secretion, stimulates normal excretion, promotes the appetite and increases the quantity of the digestive juices, and thus favors the digestion. It is most excellent in indigestion—in such cases, acting in a more rational manner than the digestives which have no influence beyond that immediately exercised upon the food within the stomach.

In extremely irritable conditions a solution which contains one or two drops of the specific *hydrastis*, or the colorless *hydrastis*, or in extreme cases the one-twelfth to the one-fourth of a grain of the sulphate of hydrastine or of the hydrochlorate of hydrastine is preferable to large doses of hydrastine or the powdered *hydrastis*. In some cases powders, or the precipitated principle, will irritate the stomach, producing weight, distress or even mild pain if the stomach is empty. In such cases it is best given after a little food has been taken, or in conjunction with the

subnitrate, or the oxide of bismuth, or with a digestive if the stomach contains food.

In those cases of **atonic dyspepsia**, where the entire apparatus, including the liver, is stagnant and inoperative, one-fourth of a teaspoonful of the fluid *hydrastis* or of the colorless *hydrastis* dissolved in water will restore a normal condition of the glands and oil the entire mucous membranes.

The agent relieves the **chronic constipation** of plethora or muscular inactivity in relaxed, inactive, feeble cases. Its influence is encouraged by combination with *nux vomica*. It overcomes **hepatic congestion** in such cases and catarrh of the gall ducts. It may be combined with *podophyllum*, *leptandra* or *iris*.

It is a most superior remedy in the atonic conditions of these organs in **chronic alcoholism**., and if combined with large doses of *capsicum* and with forced nutrition, will in great part supply the demand for alcoholics and assist in the cure of the disease. It acts as strychnine does in the cure, and may be most beneficially given in combination with that agent.

The tonic and nerve strengthening properties of this agent have long been utilized by the writer in all cases of **general debility** and nerve prostration, especially if associated with the conditions of the digestive and assimilative organs named. It is an admirable restorative tonic. It is demanded in convalescence from **protracted fevers** and debilitating inflammation, and as a general restorative after overwork, in the condition known as a complete "breaking down."

The usual manner of prescribing it is to give a grain of hydrastine, two grains of the bisulphate of quinine, one grain of the carbonate of iron and one-fourth of a grain of *capsicum* in a capsule every three hours, after eating something simple, that the stomach may not be entirely empty. The improvement is remarked by the patient usually from the first. It is a simple tonic, but has no superior. In some plainly indicated cases, the quinine salt may be replaced with one-fourth of a grain of **nux vomica**.

The influence of the agent is certainly direct upon the central nervous system, promoting a normal circulation and increasing its nutrition. It will yet be found applicable in the treatment of **cerebralengorgements** of a chronic character, and in the treatment of **hyperaemia** of those organs, in the cases in which *ergot* is used.



It is valuable in from one-fourth to one-half teaspoonful doses of the fluid *Hydrastis*, or colorless *Hydrastis*, in water, in **prostrating night sweats**.

In its power over the nutrition of muscular structure, it is a most important remedy in many **disorders** of the **womb**. It produces contraction of the unstriped muscular fibers, slowly but permanently stimulating the removal of excess of growth. In parturition it is not so immediate or forceful as *ergot*, but acts mildly in the same manner. In **uterine subinvolution**, in **menorrhagia** or **metrorrhagia** from this cause, it is the best remedy we have.

It is useful also in **post-partum hemorrhage**, but is rather slow in its action when immediate results are demanded. In the incipient stage of the development of tumors within the uterine structure, or fibroid growths, it is not excelled by ergotine. It may be used hypodermically in these cases, and its results are comparatively permanent.

In the treatment of **cancer** or **scirrhus** of the **breast** Dr. Hale has had excellent results from the use of this remedy. He uses the mother tincture in conjunction with *conium*, giving five drops at a dose three or four times a day, the *hydrastis* before, the *conium* after meals. He says: "Sometimes, I mix them and give ten drops of the mixture three times a day."

*Hydrastis* is directly indicated where the **tumors** are hard and painful; *conium* where they are small, hard and painless. Where the swelling is soft or undulated and painful on pressure, and pain extending into the axilla, we find *phytolacca* in the same doses better than either. Sometimes, all three remedies are good together, and none of them is valuable in the open cancer. The remedies must be continued a long time to make a decided impression, and their effect is even increased by the same remedies being applied externally in the form of a plaster.

In all **catarrhal conditions**, especially if there be muscular relaxation and general enfeeblement, it is a useful remedy. It may be given internally and used locally. It is used locally in solution and is of much value as an application wash, irrigating fluid or gargle in all such **catarrhal, ulcerating, aphthous, indolent** and otherwise unhealthy conditions of mucous surfaces. Its application to **nasal catarrh** has been mentioned. It is a most useful gargle in aphthous or **ulcerated sore mouth**, in conditions where the gums are spongy or loosened from the teeth or bleed easily. In diphtheria and in tonsillitis as a gargle it is extremely useful.

Ten minims of a fluid preparation, to the ounce, may be used, or a solution of the hydrochlorate of hydrastine in **nasal catarrh**, in **inflammation** of the **eyes** and in **gonorrhoea**. One grain of the hydrochlorate in an ounce of *rose water*, with or without five grains of the sulphate of zinc, is of superior value in purulent conjunctivitis. The same preparation, diluted, is useful in gonorrhoea. Five drops of the solution in a dram of warm water is the proper strength. The colorless *hydrastis* in a solution with a small quantity of the potassium chlorate is sometimes superior in nasal catarrh. It is most serviceable in this condition if dilute.

It is the best of washes in **leucorrhoea**, whatever the cause, and it can be used freely without danger and in various strengths—from one dram to three, to the pint of hot water. It is of much service when the discharge is thick, yellow, and the membranes relaxed and feeble. In simple cases half a dram to the pint is beneficial.

It forms an excellent wash in **eczema** of the **anus**, with ulcers or fissures within the rectum. Its use may be followed with the application of a zinc ointment, with twenty-five per cent its weight of bismuth subnitrate. In mild solutions of the hydrochlorate of the alkaloid one-fourth grain to the ounce, it is serviceable in **catarrh** of the **bladder**, as an irrigating fluid.

We find in addition to the tonic influence of this remedy, that it has been used in a number of cases of **gall stone**, with curative results. Professor Farnum claims to have cured a number of cases with the powdered *hydrastis*. The cases which he regards amenable to this treatment are, first, ordinary cases of **cholelithiasis**, where the symptoms are transient and not severe; second, acute inflammatory cases, usually attended with fever, and **catarrhal conditions of the gall ducts**; third, cases ordinarily called biliary colic. Those, of course, where organic change has not taken place, or where the stones are not impacted, in the gall bladder or in the ducts. He uses it as an efficient remedy in **catarrhal jaundice** where there is no pain to indicate the presence of gall stones in the ducts. This is in harmony with its influence on general catarrhal conditions of the gastro-intestinal tract.

Goss claimed that it had direct catalytic power, and aided the digestion, while it corrected the biliary function. It restores the mucous lining of the gall duct, in the same manner that it influences other mucous surfaces.

Cuthberton gave *hydrastis canadensis* as a tonic to a pregnant woman who had a **goitre** of recent appearance. The goitre was promptly cured. As a result of this observation, he treated twenty-five other cases of goitre at the time of **puberty**, or during the **pregnant state**. At times when interference with the function of the reproductive organs seemed to produce reflex irritation. He claims that every case was cured by this remedy. He gave the agent from six weeks to three months, three times a day after eating. One of the patients had become steadily worse under the use of iodine, the iodides, and thyroid extract. This patient began to improve as soon as *hydrastis* was given, and was promptly cured with this remedy alone.

Webster calls attention to the influence of *hydrastis* upon the **mammary gland**. It has been reported as a remedy for **mammarycancer**, but its more satisfactory influence is upon painful fulness of the mammary gland, during the menstrual period, or for the treatment of local enlargements occurring more or less suddenly, of a benign character, either in maiden ladies or at the menopause.

There is an abundance of authority for the use of *hydrastis* in conjunction with *conium maculatum*, in the treatment of **non-malignant mammarytumors**. The two agents combined seem to have an influence that neither possesses alone. Two minims each of these two remedies, in the specific form, was given by Webster before meals and at bed time, in these cases, with satisfactory results. The doctor reports in detail quite a number of cases which were relieved or cured by this treatment.

## **HYGROPHILIA.                      *Hygrophilia spinosa.***

The above named agent is a native of Ceylon where it is used as a remedy for all dropsical conditions. It is but little known in America, but may be received on the reliable authority of the native physicians of Ceylon, who use an infusion of the plant, two ounces to the pint, the entire quantity to be given within twenty-four hours. The remedy produces **active diuresis**, but the reports are as yet so meager that we have no way of knowing in what way the agent acts upon the organs to produce its desired effects.

It is a powerful diuretic and is a stimulant and tonic to the sexual apparatus.

## **HYOSCYAMUS.**

## ***Hyoscyamus niger***

Synonym—Henbane.

### **CONSTITUENTS—**

Hyoscyamine, Hyoscine, Scopolamine, Hyoscipicrin.

### **PREPARATIONS—**

**Extractum Hyoscyami**, Extract of *Hyoscyamus*. Dose, from one to two grains.

**Extractum Hyoscyami Fluidum**, Fluid Extract of *Hyoscyamus*. Dose, from five to twenty minims.

**Specific Hyoscyamus**. Dose, from one to ten minims.

**Physiological Action—***Henbane* is a narcotic and causes deranged vision, headache, giddiness, dilated pupils, dry throat, hoarseness, weakness of the lower limbs, spasms, cramps, paralysis, loss of speech, or loquacious delirium with hallucinations, followed by a dreamy sleep, according to the amount taken. A continuous use of the medicine causes an eruption of the skin of a red color, which is dry and itching. In some cases large doses cause furious delirium.

While power to temporarily increase nerve force—mild stimulant properties—is ascribed to *hyoscyamus*, that influence is much less marked than *belladonna* and *stramonium*, although its general effects are in many ways similar to these agents in medicinal doses. It is almost entirely devoid of irritant properties, but is soothing, calmative and sedative to a marked degree.

**Specific Symptomatology—**It is specific in excitable mental conditions, and in the violent and noisy delirium of fevers and acute inflammations, to **subdue the excitement** and to **induce sleep**.

In all conditions where there are busy delirium, hallucinations, weight in the front part of the brain, extreme activity of the mind, disturbed sleep with wild and frightful dreams, coma vigil, flushed face, wild, red and restless eyes, it is a sure remedy. In the restlessness, ceaseless agitation and insomnia of exhaustion, and in diseases of infants and of the extreme aged and feeble, it is especially applicable.

**Therapy—**It is valuable in the **pneumonitis** of infants for its general

soothing influence, and for its sedative effect upon the cough and respiration, and also in **bronchitis**, with short, sharp cough. A dry cough, increased upon lying down and relieved upon getting up, is surely relieved by its use.

It does not arrest secretion, and in this particular is in every way superior to *opium*. It does not disturb the mind or produce headache.

The anodyne properties of this agent are not marked in its general application, but administered in the **neuralgia** of exhaustion, in this variety of **neuralgic dysmenorrhea** and in **irritable** conditions of the **bladder**, as well as in the bone pains of **syphilis**, it exercises anodyne properties to a remarkable degree. In hepatic, renal, intestinal, ovarian and uterine **pain** accompanied with great restlessness, it is of much value.

As a **hypnotic** for infants and the aged there is no happier agent than *hyoscyamus*, in small doses. From five to ten drops of the fluid extract should be dropped into half a glassful of water, and a teaspoonful may be given every fifteen minutes, for two hours before the usual bedtime or until the patient sleeps. The sleep is quiet, restful, natural and not too sound. The patient awakens refreshed. It is indicated also in patients enfeebled from prolonged illness.

In **headaches** attendant upon the above irritable conditions the agent is applicable.

Since the profession has learned to use hyoscine and morphine together, for the peculiar **analgesic influence** of this compound, I am reminded that during the largest part of my experience I have been in the habit of combining morphine, when that remedy is indicated for pain, with *hyoscyamus*, with excellent results.

It is well known that morphine is acted upon imperfectly, or chemically, by an extremely avid condition of the stomach. Also that there are certain nervous constitutions that have unpleasant nervous irritation from its influence (an idiosyncrasy, often). In place of acting as a stimulant, it acts as an irritant and depressant.

I have learned that the use of *hyoscyamus*, in the proportion of ten drops of the specific medicine with one dram or more of strontium bromide, combined with a mild stimulant such as *capsicum*, and one grain of

morphine added to the whole, has remarkable **pain relieving properties** out of all proportion to the small amount of morphine it contains. I add the above to two ounces of water or other simple menstruum, and give it in teaspoonful doses every ten, twenty or thirty minutes until the first effects are observed.

The influence of this simple preparation is exceedingly happy, especially where something soothing is needed for distress, general discomfort, nervous irritability, or wakefulness. A sensitive stomach after anesthesia for surgical operations, will retain this in a remarkable manner usually, and the patient can thus be kept free from pain and discomfort, and will enjoy natural and restful sleep with only an occasional dose.

The alkaloid **Hyoscyamine Sulphate**, in doses of one-eightieth of a grain, works better often than other forms of the agent in **paralysis agitans**, **locomotorataxia**, the **tremors** of old age, and in **tetanus**. It is of value in **chorea**. In **chronic dementia**, with destructive tendencies, and sleeplessness, **insanity** with delusions and hallucinations, in epileptic **mania**, and in fact, in mania of all forms it is excellent, especially when there are with the above, erratic tendencies.

**Co-Operatives**—*Gelsemium*, *stramonium*, *opium* and *passiflora incarnata*, facilitate the action of *hyoscyamus*. The alkaloid duboisia is said to be identical with hyoscyamine. Atropine is also identical in some of its properties.

## **HYPERICUM.**

### ***Hypericum perforatum.***

Synonyms—St. Johns Wort, Millepertuis.

#### **CONSTITUENTS—**

It contains a volatile oil, red coloring principle, pectin and a resin.

#### **PREPARATIONS—**

The **powder**. Dose from one to five grains.

The **tincture**. Dose from one-half to ten minims.

**Fluid extract**. Dose, from one to five minims.

**Specific Symptomatology**—Muscular bruises, deep soreness, painful parts. A sensation of throbbing in the body, without fever. Burning pain, or deep soreness in the spine upon pressure, spinal irritation, circumscribed areas of intense soreness over the spinal cord or ganglia.

Concussion, shock or injury to the spine, lacerated or punctured wounds in any location, accompanied with great pain.

**Therapy**—This agent by Homeopathic physicians is considered specifically adapted to irritation, soreness, or chronic disease accompanied with tenderness of the **spinal column**. It is indicated when symptoms of that disease or of general spinal tenderness are present. If accompanied with fever, which is seldom the case, other indicated remedies should be prescribed. For traumatism of the spinal column, or nerve centers, Homeopaths use it externally and internally, in traumatic conditions of the spinal cord, and where there is shock or where there are contusions or lacerations without shock. They believe that it will prevent **convulsions** from spinal injury, and will prevent **tetanus** from punctured wounds, relieving the pain resulting from injury.

*Hypericum* in doses of two drops every four hours is suggested as of much value in the treatment of piles. It may induce headache, or a burning pain in the lumbar region. It sometimes induces diarrhea, but these symptoms occurring, the remedy may be reduced in quantity or discontinued for a short time, and then resumed.

Used as a fomentation or ointment it is applied to **tumors, caked breasts, enlarged glands, ecchymosis, bruises, swellings and painful ulcers.**

## **IBERIS.**

### ***Iberis amara***

Synonym—Bitter Candytuft.

#### **PREPARATIONS—**

The powdered plant. Dose from one to three grains.

**Tinctura Iberis Amarae.** Dose, five drops, increased or decreased as indicated.

#### **CONSTITUENT—**

Lepiden, a bitter principle.

**Therapy**—The most direct action of this remedy is upon an **enlarged heart**, where there is functional weakness. It lessens the force of the heart's action, controlling violence and irritability. It overcomes the **dyspnea** of these cases, the vertigo and general sense of weakness, with other reflex symptoms.

In **bronchitis, asthma, dyspnea**, and in jaundice or dropsy, all of cardiac origin, it is said to be one of our best agents, in some cases acting magically. Galen used it in rheumatic affections. The agent has not received the attention it is said to deserve.

## **INULA**

## ***Inula helenium***

Synonym—Elecampane.

### **CONSTITUENTS—**

Helenin, inulin, volatile oil, acrid resin, bitter extractive.

### **PREPARATIONS—**

**Extractum Inulae Fluidum**, Fluid Extract of Elecampane. Dose from ten to sixty minims.

**Specific Medicine Inula**. Dose from five to forty minims.

**Administration**—The agent is given in infusion to excellent advantage, and a syrup may be prepared which is serviceable in lung troubles.

Helenin is given in doses of from the one-twelfth to the one-fourth of a grain four or five times daily.

**Physiological Action**—The tonic influence of this agent has been recognized for many years. It acts directly upon the nutritive functions of the body. In general debility from protracted disease or from overwork, or from age, its influence is plainly apparent. It imparts tone to the digestive and respiratory organs and to the urinary tract.

**Therapy**—In atonic condition of the abdominal viscera with engorgement great relaxation and general inactivity this agent exercises specific properties. It influences not only the character of the circulation but acts also as an alterative, improving the character of the blood. It is of advantage in those **atonic conditions** where, with great inactivity of the gastro-intestinal tract, there is disorder of the skin and discoloration and eruptions.

The direct tonic influence of *inula* seems to be exercised also upon the **respiratory tract** after protracted disease promoting recovery. It lessens excessive bronchial secretion controls the **night sweats** and imparts real tone and strength.

Hare says that *inula* has an actively astringent influence. Giving it during



the course of cough if there be great secretion the influence is very desirable but if there is but little secretion it makes the cough very tight.

Foreign authorities have written considerable in the last five years on the action of this agent in the treatment of **pulmonary tuberculosis** claiming that it has a directly toxic action upon the tubercle bacilli. They believe that a pure alkaloid of *inula* will exercise a more positive influence than creosote, or guaiacol preparations. Von Unruh experimented with *inula* and *echinacea* hypodermically (see *echinacea*). He uses **Subculoid inula**, from three to five cc. daily. His first report will be found in The National Quarterly, Volume I, Number 7. It certainly promises favorably. It must be carefully investigated. *Inula* is a useful remedy in certain coughs.

Perhaps the alkaloid *inulin* will be found superior to the fluid medicine in these cases. It is certainly an important remedy in the relief of irritation of the trachea and bronchi. Where there is persistent **irritating cough**, with pain beneath the sternum, and abundant expectoration, the condition being acute or sub-acute in character, and accompanied with tonic elevation of the temperature, it will be found serviceable. It is an expectorant of a soothing character. It is also diuretic and diaphoretic in its general influence. Excessive **catarrhal discharges** from the bladder are readily controlled by its use, and vaginal catarrh yields readily to its influence. It acts directly upon the glands of the cervix uteri and in catarrhal endometritis it speedily overcomes the glairy mucous discharge and materially improves the condition. **Emmenagogue** properties are claimed for it but this property has yet to be demonstrated.

Dr. Burd says that he is acquainted with an old German physician who claimed to have cured forty-seven cases of hydrophobia with **elecampane**, without a single failure. The patients had the diagnostic symptoms plainly marked so that there was no doubt that the disease was present. He made a very strong decoction of the remedy in sweet milk. He gave half a pint of it every hour. He claimed that all these patients vomit a peculiar green vomit, and when this stops the medicine can be discontinued or given in less quantities.

## **JALAP.** *Ipomea jalapa.*

**Part Employed**—The tuberous root.

### **CONSTITUENTS**—

Convolvulin, jalapin, gum, albumen, salts.

## **PREPARATION—**

**Extractum Jalapae**, Extract of Jalap. Dose, from five to fifteen grains.

**Pulvis Jalapae Compositus**, U. S. P. Dose, from ten to thirty grains.

**Pulvis Jalapae Compositus**, A. D., Compound Powder of Jalap, Beach's Antibilious Physic. Dose, one dram.

**Therapy—***Jalap* is an active cathartic. With the older physicians it was commonly used, but the modern school apparently does not often find a need for it. It produces large alvine or watery evacuations with griping, and extreme nausea in some cases. Hypercatharsis and continued colic are induced by it. It influences the small intestines most directly. In cases of chronic inactivity of the intestinal tract, with persistent constipation and inactivity of the glandular organs, it will increase their action; will cleanse the entire tract and stimulate normal action. It is an old remedy for dropsy. It is superseded by other and more satisfactory agents.

## **IRIS**

### ***Iris versicolor***

Synonym—Blue Flag.

## **CONSTITUENTS—**

Acrid resinous matter, tannin, gum, starch.

## **PREPARATIONS—**

**Oleoresina Iridis**, Oleoresin of Iris. Dose, one to five grains.

**Extractum Iridis Fluidum**, Fluid Extract of Iris. Dose, five to sixty minims.

**Specific Medicine Iris**. Dose, one-fourth to five minims.

**Physiological Action—***Iris Versicolor* has a bitter, nauseous, and rather acrid taste, and in full doses is apt to cause emesis. Recent experiments have demonstrated that preparations of the fresh root or the oleo-resin possess active, purgative and diuretic qualities, and under its influence there are increased secretion and elimination of bile, its cholagogue powers having been abundantly demonstrated. It also directly stimulates the entire glandular system—the lymphatics and the skin.

It promotes waste, and elimination of effete material from the blood.

**Specific Symptomatology**—This agent will prove serviceable when the stools are clay-colored, the urine scanty and the skin inactive and jaundiced. In small doses it is indicated in irritable conditions of the mucous membranes of the digestive tract, with altered secretion. This condition is characterized by a neuralgic pain over one eye, or involving one side of the face, usually the right side; nausea or vomiting of an acid liquid, with burning and distress in the esophagus or stomach; gastralgia and gastrodynia, with vomiting or regurgitation of food, especially after the eating of fats or rich pastry; diarrhea, with a burning sensation after the passage; cholera morbus, with violent pain around the umbilicus, or in the lower part of the abdomen, and watery diarrhea with great depression.

**Therapy**—The oleo-resin has been very successfully employed in hepatic jaundice, arising intestinal disorders, and the consequent dropsy. Chronic jaundice, arising from duodenal catarrh and obstruction of the biliary ducts, should be treated with *Iris*. It is said that malarial jaundice (so-called) may be cured by this drug alone, and that it exerts a favorable influence in bilious remittent fevers and **chronic** ague. This agent is directly indicated in that condition of the stomach which induces **sick headache**. It not only ameliorates the attack, but assists in the removal of the cause and in breaking up the tendency to recurrence of the condition.

This agent is employed in the treatment of syphilitic and strumous affections. In the treatment of **syphilis** this agent is a very useful remedy in those cases in which the glandular organs are inactive. Here the effects of *Iris* are strikingly conspicuous from the first. It will be found an excellent auxiliary also to the influence of other well known alteratives. It has also been largely employed in the successful treatment of many affections of the skin. Kinnett recommends it strongly in **psoriasis**.

In the treatment of certain cases of **eczema** of a persistent chronic character, as well as of other pustular and open ulcerating or oozing skin diseases, this agent, in from five to ten drop doses every two or three hours, will be found most useful. It may be diluted and applied externally also. Prurigo, crustalactea, and tinea yield readily to its influence at times.

It is a favorite remedy in the treatment of enlargement of the thyroid and

other glandular affections. In recent cases of **goiter**, *iris* is used to good advantage. With many, if used in the form of a recent preparation, it is believed to be specific.

Dr. H. P. Whitford gave *iris* and *hyoscyamus* with a very small dose of podophyllin for **headaches** in the back part of the head.

Dr. Laws reports the use of *iris* in a bad case of **eczema** where the attacks lasted six months, each worse than the previous one. The disease would begin at the ankle, finally cover the entire body. The itching was intolerable. He used the remedy both internally and externally with excellent results. Dr. Kinnett confirms these statements.

Both have great confidence in it in the treatment of **goiter**, and in the treatment of **syphilis** where they do not expect to have to use the iodides with it. They push it to a mild cathartic effect so that it will keep the bowels free.

## **CALUMBA.**

## ***Jateorrhiza palmata.***

Synonyms—Columbo, Columba.

### **CONSTITUENTS—**

Calumbin, a white, bitter, crystalline principle. Berberine., the alkaloid, identical with the alkaloid of *Berberis Vulgaris*, Calumbic acid.

### **PREPARATIONS—**

**Extractum Calumbae Fluidum**, Fluid Extract of Calumba. Dose, from three to thirty minims.

**Tinctura Columbae**, Tincture of Calumba. Dose, from twenty to one, or even two drams.

**Specific Medicine Calumba**. Dose from five to thirty minims.

**Physiological Action**—This agent is a gastric tonic and one of the typical stomach bitters. It is believed to increase the flow of the saliva and of the gastric juice, and increases also the appetite and the power of digestion. It is an intestinal antiseptic to a limited extent and is anthelmintic.

It is similar in action to *hydrastis canadensis*, but does not extend its influence so positively to the nervous system.

**Therapy**—It is indicated when there is atonicity of the digestive apparatus, especially when there is any irritation whatever. In debilitating disease of the stomach or bowels it is an excellent remedy. It is restorative in fevers, improving the general nutrition by the improvement of the tone of the organs of digestion and assimilation. It is useful after protracted **diarrheas** and **dysentery**, after **cholera infantum** when a non-irritating tonic is needed, and in cholera morbus, being of benefit in promoting restoration in these cases. It will relieve the vomiting of this disease, and a few drops of the tincture will also relieve vomiting in seasickness, and has been beneficial in the vomiting of pregnancy.

It is useful in overcoming **intestinal flatus**, an infusion in inflammatory intestinal disease being most satisfactory.

In **chronic malaria** with marked intermittent fever it is valuable.

## **JUGLANS.** *Juglans cinerea.*

Synonym—Butternut.

### **CONSTITUENTS—**

A resin, juglandin, a fixed oil, juglandic acid.

### **PREPARATIONS—**

**Extractum Juglandis Fluidum**, Fluid Extract of Juglans. Dose, from one minim to one-half dram.

**Tinctura Juglandis**, Tincture of Juglans. Dose, from five minims to one dram.

**Specific Medicine Juglans**. Dose, from one-third to one minim; prescribed from ten drops to one-half dram in four ounces of water, a teaspoonful every one, two or three hours.

**Juglandin**. Dose, from one-fifth of a grain to one grain.

**Physiological Action**—Experiments with the drug have ascertained that it influences, with great energy, the liver, small intestines, colon and rectum, causing an increased manufacture and elimination of bile, as well as increased activity of the glands of the intestinal tract. Full doses produce large bilious evacuations, without much pain or griping, in which respect its action very much resembles that of *iris versicolor*.

**Therapy**—It is said to be a valuable remedy in **duodenal catarrh**, with

torpidity of the liver and **chronic jaundice**. Small doses have been successfully employed in **dysentery**, **bilious diarrhoea**, and in intestinal diseases, with symptoms indicating irritability, hyperemia, or a tendency to inflammation. Chronic **constipation** can be successfully corrected by medium doses of the extract, if the affection depends upon defective elimination of bile, causing the stools to be clay-colored and dry from a lack of biliary and glandular secretion.

Combined with other agents, as *hyoscyamus*, *belladonna*, *nux vomica*, *leptandra* or *capsicum*, a most excellent pill can be made, which will cure many cases the above conditions, and will stimulate the stomach and intestinal tract, in those atonic or debilitated conditions which induce chronic dyspepsia.

In the skin disorders named under *dandelion*, pustular and eczematous, it will act in the same manner as *dandelion*, and may be advantageously combined with that agent.

It is specifically adapted to **skin diseases** associated with some abnormal condition of the intestinal tract. **Eczema**, **herpes circinatus**, **acne**, **impetigo**, **pemphigus**, **rupia**, **prurigo moluscum**, **lichen** and chronic scaly skin diseases, yield to its influence with appropriate auxiliary measures. Irritation of mucous membranes, chronic inflammation of the throat, eruption over the body like that of scarlatina, **noli me tangere**, **scrofulous** enlargement of glands, congestion and irritation of the respiratory and gastric mucous membranes, nursing sore mouth, ulcers in the mouth with constipation, rheumatism of the muscles in the lumbar region, yield to its influence.

*Juglans cinerea* has proved to be curative of a great variety of **skin diseases**, whether scaly or pustular, whether characterized by papules or bullae, as stated above, so long as the lesion is associated with some **disorder of digestion** and assimilation

It is analogous to arsenic in its action in squamous affections, and to Sulphide of calcium in pustular diseases of the skin.

It may be used to advantage, both locally and internally, in chronic and illconditioned ulcers, stimulating waste and improving nutrition.

In the treatment of skin diseases with *Juglans*, a saturated tincture of the fresh inner bark should be employed in small doses, at the same time that the remedy is used as a local application. In obstinate cases of **chronic**

**eczema**, the local use of the juice of the fresh inner bark has hastened the cure.

In bowel complaints of infants and children, in the constipation of nursing women, and in the commencing stages of diarrhea and dysentery the syrup may be used, while the extract is the best form of the remedy as a cathartic in intermittent fever, and whenever the remedy is employed as a cathartic.

*Juglans* may be given in conjunction with *berberis*, *phytolacca*, or podophyllin when there are disorders that are induced by **occipital headaches**.

## **JUNIPER.**

### *Juniperus communis.*

Synonym—Juniper berries.

#### **CONSTITUENTS—**

Volatile oil, resin, gum, wax, starch, sugar, salts.

#### **PREPARATIONS—**

**Extractum Juniperi Fluidum.** Fluid Extract of Juniper. Dose, from one to two drams.

**Oleum Juniperi.** Oil of Juniper. This is a volatile oil obtained from juniper berries by distillation, and is of a pale greenish or yellowish color, and of a warm, terebinthinate taste. Dose, from five to twenty minims.

**Oleum Cadinum-Oil of Cade.** This is an empyrheumatic oil obtained from the wood of *Juniperus Oxycedrus*, a shrub resembling common juniper, by dry distillation, and is a dark-colored, thick liquid with a tarry odor, and a burning, bitter taste. Dose, from three to five drops.

**Therapy—Juniper** has long been in use as a general diuretic and soothing kidney remedy. It is indicated in feeble or aged patients with persistent dragging or weight across the kidneys. In chronic disease it is especially beneficial. In **pyelitis**, **pyelonephritis** and **cystitis**, all of a chronic form, it is of value.

It will quickly relieve many cases of simple **renal hyperemia**, preventing the development of structural change, or the advancement of nephritis. After acute **nephritis**, whether from direct causes, or subsequent to scarlet fever, diphtheria, or other severe disease, when active inflammation has subsided, it will restore the secretory power of the

epithelium of the renal tubules and readjust the secretory function to the blood pressure, restoring normal action. It is useful in strangury, and in some dropsies where there is absence of acute inflammation.

The oil of cade is applicable to skin diseases, especially **moist eczema**. It may be applied directly, but is quite severe upon an irritable or sensitive surface. It can be incorporated with an ointment base to excellent advantage. It is a useful agent in **psoriasis**, and as a parasiticide it will destroy psora and cure favus.

It was at one time in common use as an application to skin diseases and parasites in domestic animals.

## **KALMIA.** *Kalmia latifolia.*

Synonym—Mountain laurel.

### **CONSTITUENTS—**

Andrometoxin, arbutin, tannin.

### **PREPARATION—**

**Specific Kalmia.** Dose, from one-half to five minims.

**Physiological Action—**In *Kalmia* we have a remedy acting in a manner somewhat like *veratrum viride*, both in controlling fevers and in inflammations, as well as in its influence as an alterative, it having been successfully used both in primary and secondary syphilis. Like *veratrum* it has also been employed hypodermically in the treatment of neuralgia of the face, and sciatica.

**Therapy—**Professor John King once reported the following case:

“Some time since I treated a case of **syphilis** of five weeks' standing, which had not received any kind of treatment during that period. The patient at the time I saw him had several chancres; the surface of the body and head was covered with small red pimples, elevated above a jaundiced skin, and he was in a very debilitated condition. I administered a saturated tincture of the leaves of *Kalmia*, and touched the chancre with tincture of muriate of iron, and effected a cure in four weeks, removing the jaundice at the same time.”

Notwithstanding the authority, we accept this statement, *cum grano salis*.



If *Kalmia* would relieve other cases of syphilis as it did this one, we may safely say that we have no other alterative in our materia medica equal to it. It has not been extensively used, but it is without doubt beneficial in **glandular disorders, scrofula**, and in mild cases of secondary syphilis.

*Kalmia* exercises a sedative influence over the heart, controls the pulse beat without depression. It is markedly alterative but must not be pushed because of this slowing influence. Homeopaths give it in cardiac hypertrophy, and for painful **rheumatic** affections, for **facial neuralgia**, for **tobacco heart**, and it will probably act well in **rheumatic endocarditis**.

It will be found of service in inflammatory diseases, also in **hypertrophy of the heart** with **palpitation, diarrhea** and **dysentery, rheumatism**, chronic inflammations, with atonicity, neuralgia, active hemorrhages, threatened abortion from syphilitic taint, active **menorrhagia**, pain in the limbs and back during menstruation, jaundice, and also in scleritis, with pain in turning the eyes, and in ophthalmia.

## **LEONURUS.**

## ***Leonurus cardiaca.***

Synonym—Motherwort.

### **CONSTITUENTS—**

Bitter principle, volatile oil.

### **PREPARATIONS—**

**Extractum Leonuri Fluidum**, Fluid Extract of Leonurus. Dose, from a half to two drams.

**Specific Symptomatology**—This agent is positive in **suppressed lochia** from any cause, **amenorrhoea from cold; dysmenorrhoea**, with morbid nervous excitability, and **hysteria**.

Prof. John King regarded *motherwort* as superior to all other remedies in suppression of the lochia, giving it internally and applying a fomentation of the herb over the lower abdominal region. The author has used it with excellent results.

**Therapy**—It is prescribed in the above conditions, also in delirium tremens, typhoid state in fevers, chronic diseases with wakefulness, restlessness, disturbed sleep, spinal irritation, neuralgia of the stomach

and head, feeble digestion, general debility, chorea, convulsions, nervousness from irregular menstruation, palpitation of the heart, associated with uterine disease, amenorrhea, with chlorosis, cachexia and an irritable, excitable, enfeebled state of the nervous system, spasms and harrassing bearing down pains, and morbid sensibility from uterine disease, pain in the pelvic and lumbar regions in females.

Dr. Dawes of England uses *leonurus* for its action upon the heart. It is a simple heart tonic, promoting normal action, probably very mild in its influence. It would work well combined with *cactus* or *crataegus* or both, especially in the presence of *nux vomica* or *collinsonia*.

*Motherwort* is tonic and laxative, a diaphoretic somewhat like *asclepias*, an emmenagogue like *cimicifuga* and a nervine like *scutellaria*.

## **TIGER LILY.                      *Lilium tigrinum.***

### **PREPARATIONS—**

**Specific Medicine Tiger Lily.** Dose, from one to ten minims.

**Physiological Action—**In 1863 Dr. Jeffries Wyman reported a case in which vomiting, purging, drowsiness, etc., were believed to have been produced in a little girl by the pollen of the tiger lily.

*Tiger Lily* seems to act upon the sympathetic nerves of the pelvis, increasing their strength and tone. It operates through the spinal cord, decreasing sexual irritability and materially improving the pelvic circulation. This influence is exercised best when the uterus and ovaries are greatly engorged and if there be **displacement** or **subinvolution**. Those conditions which occur from getting up too soon after confinement are improved by it, and those where the parts are slow in recovering tone, from any cause, or where there is danger of **permanent prolapse** from engorgement, are benefited by it.

**Specific Symptomatology—**Neuralgic pain in the uterus, ovaries, and mammae, acid leucorrhoea excoriating to the labia, causing an eruption about the vulva and inflammation of the vagina; nausea from uterine disease or pregnancy; headache from uterine disease; nervous sick-headache; chronic inflammation of the uterus, with displacement; tedious recovery after child-birth; amenorrhea, with burning pain in the ovaries; distress about the heart, with prolapse of the uterus; pain under the left breast; dysmenorrhoea; neuralgic pain in the uterus and ovaries

extending down the inside of the thighs; a sense of weight and downward pressure in the lower abdomen; uterine displacements in general from debility.

**Therapy**—These symptoms of **uterine disease**, cured or relieved by *tiger lily*, show the action of the remedy within a limited sphere; but it is probable that it has a much wider range of action, as we find that the common *white meadow lily* was employed by the early settlers in this country as a general and local tonic in **prolapsus uteri**; and as a tonic in debilitated states of the female organs of generation, and in dropsy, while the root of the *white pond lily* was used as a local application to ulcers and inflammations.

Prof. John King says:

“I recollect a lady who, several years since, was pronounced by several physicians to have uterine cancer, and which resisted all their treatment; she was permanently cured by a squaw, who gave her to drink freely of the decoction of a root, as well as to inject it in the vagina, which proved to be that of the white pond lily—**Nuphar Alba.** (*Nymphaea odorata*)”

Guided by the influence of these agents on the symptoms of disease, and by the diseases cured or relieved by them, we conclude that their action is similar.

Dr. Baldwin, of Michigan, uses the fluid extract of **Nuphar Lutea** in the local treatment of chronic uterine disease of whatever character or however severe, with the most gratifying results. His experience has extended over several years. The preparation is applied in full strength with cotton or on a tampon.

## **LIPPIA.**

## ***Lippia mexicana.***

Synonym—*Lippia Dulcis.*

### **PREPARATIONS—**

**Concentrated tincture**, miscible with water without material precipitation. Four parts of the tincture equal one of the drug; dose, one-half to one dram.

**Fluid Extract Lippia**; dose, ten to twenty minims.

**Specific Symptomatology**—Persistent, dry, hard, ringing or resonant

bronchial cough, hoarse, barking or metallic cough. The use of this agent is limited to the air passages.

**Therapy**—It is useful in **asthma** and **chronic bronchitis**. It is peculiarly sedative to the entire mucous surfaces of the post-nasal region and bronchial tubes. It is soothing, expectorant, and relieves irritability of these surfaces. It quiets hacking cough and chronic bronchial cough of any character. The experience of the writer has proven it specific in the peculiar, deep, resonant, barking, winter cough, without secretion, common to many ladies in the northern States, usually absent in the summer, very persistent, stubborn and difficult to cure. This cough, *lippia* has cured for the writer in several cases. In every case the cough failed to recur in the following winter, as it had recurred before in several preceding winters.

## **LOBELIA**

## **Lobelia inflata.**

Note—In the early editions of my work on Materia Medica, this agent was classed from our knowledge of its action per os, as a nauseating expectorant and respiratory sedative. Since that time, the very wide observations made of its action hypodermically have changed the most of our ideas concerning it, and have placed it in an entirely different class. Given hypodermically but very few patients are nauseated by it, and almost the whole number, notwithstanding its sedative and anti-spasmodic influence, experience a physical uplift from its action. It would seem therefore to be more properly classed among stimulants. I have thought best, however, to leave this agent in its original class, until laboratory experiments have proven its exact influence upon the nervous and circulatory systems.

Synonym—Indian Tobacco.

**Part Employed**—The whole plant.

### **CONSTITUENTS—**

Lobeline, Lobelachrin, Lobelia acid.

### **PREPARATIONS—**

**Extractum Lobeliae Fluidum**, Fluid Extract of Lobelia; dose, from one to ten minims.

**Tinctura Lobeliae**, Tincture of Lobelia; dose, from five to thirty

**Specific Medicine Lobelia**; dose, from one to twenty minims.

**Subculoid (hypodermic) Lobelia**; dose, from two to sixty minims; usually from ten or thirty minims repeated as occasion demands.

The preparation of *lobelia* which is to be used hypodermically, must be selected with great care. If the agent be given internally, any good fluid preparation is effective, but in its hypodermic use, local irritation, nausea, severe vomiting, even general prostration occur more frequently from the ordinary fluid preparations. If depression with the above complications can be properly antagonized, and is not objectional in a sthenic patient. and the case immediately demands the remedy when only these are at hand, much the same results will occur as from the perfected preparations.

Extended and persistent experimentation has been made nearly as possible a perfect fluid preparation for hypodermic use. The nearest to this at the present time is the so-called **Subculoid lobelia**. This is devoid to a very large extent of the objectionable features of the other preparations, and so nearly devoid of emetic properties that this is now considered a negligible quality. It is always best however to use any preparation hypodermically warmed, the parts aseptic, and to apply a hot compress over the seat of the application immediately for a few minutes. Except for its local effects, there is but little difference between the *Subculoid lobelia* and the specific medicine *lobelia*.

**Administration**—Given by mouth for the various purposes for which it has long been used, the dosage of the specific medicine should be small, and frequently repeated. As an emetic or antispasmodic, the dose is from fifteen to thirty minims. Given hypodermically, from five to fifteen drops is usually sufficient in all children's cases, and from ten to thirty drops in adult cases. If no untoward results occur after the first dose, and the condition demands it, a more or less frequent dose and an increase in the size of the dose is justified by the severity of the symptoms, and by the demand for its influence.

Every prescriber will soon learn to make these adjustments correctly. In an occasional case a very small dose is sufficient.

**Physiological Action**—*Lobelia* relieves pain due to spasm of any character. But in its antispasmodic and relaxing influence it is not narcotic in the same sense as *opium*. It exercises a soothing influence over nerve irritability, and a distinct anodyne result ensues. General relief from pain often follows when other measures have failed. The pain from renal or hepatic stone is more quickly relieved by it and more permanently, often, than by morphine because of the general relaxation.

As used by the mouth, prior to our knowledge of its peculiar action hypodermically, it was determined that *lobelia* in toxic doses causes extreme prostration, burning pain in the esophagus, rapid, feeble pulse, fall of temperature, collapse, coma or convulsions and death from respiratory failure. Moderate doses cause dizziness, nausea, vomiting, headache and general tremors. In doses of twenty grains it is a prompt emetic, but emesis is accompanied by excessive prostration, relaxation and a feeble pulse. In small doses it causes increased expectoration and diaphoresis. Like other narcotics, a small dose stimulates, while a large dose depresses the nervous system.

Although usually classed among emetics, *lobelia* is a nerve sedative of great power, and in this influence as an antispasmodic it is exceeded by but few remedies.

Death has occurred in a very few cases from excessive doses of the remedy, but toxic effects are not apparent where the medicinal dose is prescribed. Where death has occurred, its influence as a nerve depressant has been plainly shown in the profound, general muscular relaxation, with greatly impaired muscular power, general trembling, shallow respiration, cold, clammy skin, feeble and depressed heart action. It acts like *tobacco* and *physostigma* upon the respiration, the heart's action continuing after the respiration has ceased. Paralysis of the respiratory nerves is its prominent influence.

The observations made of its physiological action when the remedy is used hypodermically are, that so used, the direct local influence of the agent upon the stomach is avoided and if the remedy is properly prepared, emesis, violent vomiting, profound relaxation, with prostration and depression, which were found present from that local influence are all absent. A total of less than five per cent of the cases will show emesis or even nausea.

Used in a medicinal dose, it softens the pulse, slows the respiration, quiets the nervous system, and produces a freedom of the respiration and circulation. One of our writers claims that he believes that the agent introduced by the stomach acts upon the pneumogastric nerve, while, when introduced hypodermically and absorbed, it acts more directly upon the sympathetic nervous system.

*Lobelia* acts directly upon the regulating centers of the system; those of heat, of the circulation, of nerve influences, both motor and sensory. It

supports the heart; it overcomes excessive blood pressure, and restores normal tension. It is directly indicated in depression as well as in overstimulation. It also controls **hyperemia**. Whatever the cause of any great depression, we cannot yet define the marvelous improvement observed from this agent. We hardly call it stimulation, and yet the improved condition is such as would ultimately follow the action of the very best, most natural stimulants or tonics.

It is hard indeed to express the apparently contradictory influence exercised on the above named **depression**, which has been overcome in its most extreme form—(in fact, in some cases where the skin was so cold and the process of life so feeble as to cause one to think that death had occurred and yet the reaction appears very promptly)—between this condition and its influence in **profound heat stroke**, as one doctor reports, where the temperature was 110 degrees, and others have reported from 106 degrees and up. Dr. Jentzsch who is enthusiastic about the action of this remedy in heat stroke, hesitates in claiming that *lobelia* is a stimulant, pure and simple, as we understand the action of stimulants. Unlike brandy or strychnine or *digitalis*, the immediate and sharp, stimulating, or whipping-up effects do not appear in the same way to be lost when the effect of the medicine is gone.

The improvement on all conditions is plainly marked, but the restoration is nearly that of a full normal condition obtained in a smooth and satisfactory manner. It is more like an increase of vital force, which remains to a large extent, in the improved condition of all the functions after the remedy has had time to be fully eliminated.

From my own personal observations and from the conclusions I have drawn from the observations of others, I would say that *lobelia* seems at once to supply a subtle but wholly sufficient force, power, or renewed vital influence, by which the nervous system and the essential vital force within the system again reassert themselves and obtain complete control of the functional action of every organ. From this influence, in a natural and sufficient manner, a complete harmonious operation of the whole combined forces is at once resumed, in some cases in an almost startling manner. Other agents stimulate, prop up, whip up or temporarily increase the force and power of one or another function, while this remedy with this peculiar power at once assumes control of the whole, and succeeds against all the opposing influences.

**Specific Symptomatology**—This remedy is specific given in irritable,

spasmodic and **oppressed breathing**, and in respiratory disorders from exalted nerve force and nerve irritation.

It is contraindicated in general relaxation and in dyspnea from enlarged or fatty heart, or from hydropericardium, or enfeebled heart, with valvular incompetence. It is specific in threatened **spasm** with exalted nerve action—a high degree of nerve tension with great restlessness and excitability, flushed face and contracted pupils. It is a prompt emetic in full doses. The following observations are made almost entirely from its hypodermic use.

**Therapy**—In **spasmodic asthma**, if given in a dose of from thirty minims to one dram during the paroxysm, the benefit is apparent almost immediately. Small doses are of but little or no benefit in such a case. This full dose may be once repeated, but this is seldom necessary, and a single dose seldom produces vomiting. It is useful in asthmatic breathing. When continued with other agents it must be given in doses not to exceed ten minims three or four times a day.

*Lobelia* is of value in **whooping-cough**. It is a reliable expectorant, and either alone or in combination with other indicated remedies, is useful in all cases of dry, hard, barking cough, or where the expectoration is difficult to raise, in **spasmodic croup**, and in **membranous croup** without depression.

Children are less liable to be unpleasantly affected with *Lobelia* than adults.

Its action as an **emetic** is most profound. It is not so commonly used at the present time for that purpose as *ippecac*, as the irritation, nausea and general depression are usually greater than is necessary.

It resembles tobacco in this and in many other particulars, producing a burning sensation in the fauces which is persistent and unpleasant.

Either alone or combined with tincture of *capsicum*, it has long been used to overcome **spasms** of all characters, from **infantile convulsions** to **puerperal eclampsia** and **epilepsy**.

It has been given in **tetanus** with benefit, and with success in the spasm of **hydrophobia** and of strychnia poisoning.



Because of the great importance placed upon this remedy by Thompson, and the violent opposition which followed his endorsement, it has been openly decried by the profession at large, and denounced because of its inactivity in small doses, and declared to be a profound poison in full doses. If it had been given fearlessly in full, large, single doses, the best of results would have occurred.

As a remedy for hysteria, **hysterical paroxysms** and **hysterical convulsions**, the combined tinctures of this remedy and *capsicum* have no superior. It will immediately terminate many paroxysms and quickly control convulsive attacks.

This agent has in the past been exceedingly popular as a relaxant in **rigid os uteri**. Very many cases are on record of almost immediate relaxation and rapid termination of labor.

Ten years ago Dr. Ernst Jentsch, sitting one night at the bedside of his only son in the throes of death, from fulminating diphtheria, after antitoxin to the extreme limit had been used, and all other available measures, claims that in answer to prayer, with a peculiar confidence that he could not account for, gave the boy, without any precedent, a hypodermic injection of one-half dram of specific medicine, *lobelia*. He made the following statement as to results:

“All the fatal symptoms gave way to those of returning health, the patient passing from a death struggle into a peaceful slumber, from which he awoke after three hours, somewhat weak. Another dose was given, which was followed by a still more pronounced reaction for the better. The patient from that time continued to convalesce, and, with the exception of a post-diphtheritic pharyngeal paralysis, he made a rapid recovery. Later, the paralysis yielded to smaller doses of the same remedy.”

“In any case where there is the least suspicion of diphtheria not always waiting for a test, I give a half dram dose of the specific medicine *lobelia* hypodermically, and repeat it from two to twelve hours once or oftener, as indicated, until reaction sets in, which means a return to health.”

In **Diphtheria**, *lobelia* has now been tested in several thousand cases. At first there was some doubt from the reports received, but later and more recently reports are quite uniformly favorable in encouraging the belief that it will be found to be fully as useful a remedy as the serum antitoxin. It has several advantages. It not only removes the membranes, but it

destroys the germs of disease, and at once puts the patient in the best possible physical condition to resist its inroads. It preserves intact the functions of the body, and preserves or restores the functions of the nervous system. It is nontoxic, has not only no anaphylaxis following, but a single dose restores a patient suffering from anaphylaxis from the serum antitoxin. The latest report at this writing received found nine children in a hovel with no care, all with diphtheria and only one with the disease mildly. Using nothing whatever except *lobelia*, the physician lost one case out of the nine, putting them, however, into as good condition as possible in their surroundings from the beginning of his treatment.

The dose for diphtheria varies from ten minims to forty, and is administered according to the demands of the patient from one hour at first to six hour intervals, with one or two injections a day for any subsequent paralysis.

*Lobelia* has long been used in **asthma**. Taken by the mouth severe spasmodic cases are relieved. Hypodermically the same results are obtained. An occasional case however will show unfavorable results, and in some cases where there are serious heart lesions, there has been prostration, depression, and threatened death which were combated only by vigorous measures. The smaller dose should be used in these cases until no evidence of idiosyncrasy or susceptibility are known to occur. In the absence of these indication's then the agent can be used fearlessly and in increasing doses if necessary.

This agent is equally satisfactorily in the treatment of **diphtheritic-membranous—croup**. The observations have been universally favorable. **Simple spasmodic croup** yields to it promptly. As yet no undesirable results are reported. The dose is from five to fifteen minims, repeated as needed.

In the treatment of **tonsillitis**, it will not be needed except in the severer forms, in which it will promote satisfactory results.

In the treatment of **coughs**, those due to pneumogastric irritation, are quickly relieved as well as the pain accompanying. It promotes normal expectoration and respiratory freedom.

In the treatment of **whooping cough**, but few cases are reported at this time, but the suggestion is that it be given just preceding the attack of

cough and repeated if possible on two or three consecutive attacks.

In the treatment of **bronchial coughs** and **acute bronchitis**, especially if the bronchial tubes are loaded with mucus and there is a sense of tightness with some difficulty in breathing, the agent is directly indicated.

If with **pneumonia** or **broncho-pneumonia** there should be rapid shallow breathing with anxious expression of the countenance and a tendency to cyanosis, this agent is clearly indicated. It improves the heart's action; relieves the capillary circulation, and dissipates cyanosis, more quickly than any other remedy.

It is well known that in the treatment of **pneumonia** in the later stages, symptoms occur frequently which seem to threaten an almost immediate fatal termination. This group of symptoms is promptly met with a single hypodermic dose of **lobelia**. This is especially true with children. I have many reports where the agent snatched the little patient as it were, from the grave, just as death's door seemed to be closing upon it.

When from any cause, usually from heart complications, the patient complains of **shortness of breath**, especially if there be any sense of oppression in the chest, or tightness around the chest, a medium dose of **lobelia** hypodermically will give full freedom and in many cases a careful properly timed repetition of the injection will give permanent relief.

In the treatment of **nausea, persistent vomiting**, and a generally disturbed condition of the stomach, if ten drops of **lobelia** be added to half a glass of water and a teaspoonful be given by the mouth every ten or fifteen minutes, it will often give prompt relief.

It is also useful adjusted in the same manner as the above for **sick headaches** and given over a period of time with reference to the conditions that induce the disease and also to any possible periodical recurrence of the disease, it will be found curative.

It was used successfully in one case of persistent **hiccough**. One-half dram repeated in half an hour cured the case.

In the treatment of **acute spasm** in the stomach, in the pylorus or cardiospasm, this agent is of immediate benefit. It is exceedingly beneficial in spasms of any kind within the abdomen. Some obstinate

cases having been cured with it. It quickly relieves certain cases of chronic constipation, and is positively indicated in obstipation and where the obstruction of the bowels seem certain. It thoroughly relaxes **muscular spasm** and encourages peristalsis.

Used in **acute heart failure** with imminent danger, a full injection is demanded. Many lives have been saved by its peculiar sustaining influence. No depression is observed, no erratic action, even when what would seem to be unnecessarily large doses have been given. One to two drams have been frequently given and repeated with only good results. In these cases indications for other remedies should be looked for and met.

**Heart conditions** depending upon feebleness or lack of tone or of muscular power should have occasional regular doses of this agent. It can be given with more freedom than any other heart stimulant. A case of **tachycardia** is reported where it was used with temporary benefit only.

In **chronic heart** disease with dilatation—hypertrophy—the consequent valvular deficiency and other structural defects, the agent must be given with caution as in a few cases untoward results have been seen.

The prompt and satisfactory effect of *lobelia* upon **angina pectoris** has been known for fifty years or more, the old prescribers giving it by the mouth freely and with positiveness for this disorder. Hypodermically the agent is given in about thirty drop doses but in many cases fifteen drops have been sufficient. Usually the larger the dose the more satisfactory the result.

In **precordial oppression**, where the patient complains of a sensation of tightness over the chest with sighing respiration—a sensation of weight, heaviness and tightness, often accompanied with considerable pain, it is indicated.

In the treatment of any form of **hysteria**, especially if there be violent hysterical excitement or convulsions, this agent will be found of immediate benefit.

Its natural antispasmodic properties make it a most reliable remedy for **convulsions** of any form and by proper adjustment, it is the safest probably of our agents for the **convulsions of childhood**. In babes, a small dose only is required and there is little danger of nausea or other unpleasant effects. The dose should be repeated as needed.

**Spasm of the glottis** has been controlled in several cases promptly with ten drop doses, though a larger dose may be needed.

A case of **tonic spasm** with deep coma following a fifth laparotomy was most satisfactorily cured by dram doses every fifteen or twenty minutes until two ounces were used.

The convulsions of **cerebrospinal meningitis** have no more active antidote than hypodermic *lobelia*. Given with **echinacea**, calcium sulphide or hexymethylenamine, it will prove curative, although some doctors will prefer to combine it, for sedative influence with **gelsemium**.

Dr. Wilkenloh has observed that she gets best results in this disease when the face is ashy pale, when the muscular pains are extremely severe, and where there is some paralysis following the convulsive attack. Even in children with these conditions she gives full doses in most cases though usually smaller doses will accomplish the same result.

Five cases of **epidemic spinal meningitis** were treated with recovery in every case with ten drop doses given every hour.

**Epilepsy** should be treated with this remedy and careful observations made. If given during the aura in sufficiently large doses and the dose repeated as indicated, it will probably be found to exercise an efficient control. It was satisfactory in a few cases that are reported, but observations are insufficient.

In the treatment of **tetanus**, it has controlled the convulsions in a number of cases, especially if an anti-toxic agent was injected at the same time.

In the treatment of **eclampsia**, while our present anti-spasmodics are efficient their influence is enforced by hypodermics of *lobelia*. It is the most active of this class in promoting dilatation of a rigid os, which is often immediately essential, permitting the completion of the labor. It can be used in conjunction or alternation with *veratrum* or *gelsemium*, and dram doses of **echinacea** should be given by the mouth every two hours to antagonize the toxins. One extreme case is reported with every condition aggravated and these complicated with *placenta previae*. The child was removed by Caesarian section. After *veratrine*, pilocarpine, *elaterium*, and magnesium sulphate were given fully for the dropsy, the convulsions

persisted even in spite of prolonged anesthesia until thirty drop doses of *lobelia* were repeated, frequently, when the whole was controlled, and the patient saved. *Echinacea* was given for the extreme infection.

For **rigidity** of the **os uteri** at any time, it may be used. It promotes normal uterine contraction after the os is dilated. A case of persistent absolute rigidity for thirty-six hours was dilated fully in four hours with this agent.

A child thoroughly poisoned with **strychnine** was saved by thirty drop doses repeated every half hour. He had eaten one-third of a grain. Another case is reported where the agent successfully antagonized overdoses of strychnine.

In every case of **ptomaine poisoning**, in which the agent has been used, it has covered all the indications and has proved fully successful. It has been used in many instances.

In one case where **toad stools** were eaten instead of mushrooms seven individuals were thoroughly poisoned. One woman was very near death when the first injection was given. All were saved very promptly by the persistent and repeated use of full doses of this remedy. In many instances when the dose was given, the immediate effect was plainly apparent.

Three or four cases of **cerebral concussion** have been reported where the patients were unconscious. In one case consciousness was restored three consecutive times, the patient and friends refusing an operation which was plainly demanded for the compression made by the broken skull.

A number of cases of **syncope** from apoplexy were satisfactorily relieved and the paralysis when present was benefited, to an extent, by the use of this remedy.

**Asphyxia** from any cause indicates *Subculoid Lobelia*. It should prove of excellent benefit in restoring patients **from drowning**. Those who have used it to restore patients from the dangerous effects of anesthetics keep it constantly at hand for this purpose.

Favorable results are reported in two cases where patients were threatened with **hydrophobia**. There was one test case in which the patient bitten treated as above, showed no signs of hydrophobia while all

the animals bitten by the same dog, developed the disease in fatal form.

A remarkable case is reported where a patient would indulge in an occasional **alcoholic debauch**. At such a time he became unconscious and remained so for four hours. This case was threatened with heart complications of a serious character. The condition was relieved in half an hour by an injection of *lobelia*. In another case consciousness was restored by this agent.

In all forms of **calculi** where the pain is extreme, *lobelia* must be given in full free doses. One or two repetitions will be all that are necessary.

*In strangulated hernia, it is used with superior results. One case of umbilical hernia yielded to it quickly.*

In the treatment of **malaria**, it can be adjusted to assist the antiperiodics if given before the expected paroxysm. Several cases of pernicious **congestive chill** have been restored by its prompt and sufficient use.

In general **uremic poisoning**, it should be given. In scarlet fever, especially severe cases, it acts promptly and in line with its indications will meet the expectation of the prescriber.

In cases of **obstinate constipation** or **obstipation**, it has produced such relaxation that the obstacles were quickly removed.

It has been given where there was **extreme albuminaria** in which it supported the strength of the patient until other measures could be used.

*Lobelia* has been given in full doses in cases of **profound anuria** three doses of from twenty to forty minim having been sufficient.

## **ANHALONIUM.**

## ***Lophophora williamsii***

Synonyms—*Anhalonium lewini*, Peyote

This agent, one of the small cacti of Mexico, has been recommended for certain special conditions as an important heart remedy. It seems to act directly upon the nerve centers in a manner much like *aconite*, reducing the force and frequency of the pulse. If continued too far, its influence is that of a general depressant.

One writer claims that *anhalonium* resembles *aconite* in its action first, but immediately the symptoms are similar to the influence of *belladonna*. There then follows a general soothing influence with an inclination to sleep. It is advised as especially valuable where there is a tendency to nervous debility, or where failure for those who labor under great stress of pain, or those who from extensive stress of business or extravagant use of tobacco are troubled with sleeplessness, or those who are reduced in their mental power, or suffer from loss of memory. No careful, general or exhaustive observation has been made concerning its action. It has been used in **angina pectoris**, **asthma** or **acute asthmatic dyspnea** or **dyspnea** from cardiac feebleness, and in **pneumothorax**, it has produced good results. *Cactus* is a special sedative under certain circumstances, and this agent promises to be as good. It has a direct action on the feeble, irregular and intermittent heart. It deserves careful investigation in those lines in which *cactus* exercises its therapeutic influence.

A writer in the Medical World suggests five drops of *anhalonium* three times a day in the treatment of **diabetes**. It produces free, regular, and **deep breathing**, assisting the respiration. It improves the functional activity of the heart by improving its tonicity. It thus acts similar to *cactus*.

## **LYCOPODIUM**                      *Lycopodium clavatum.*

Synonym—Club-moss.

### **CONSTITUENTS**

Fixed oil, sugar, volatile base (methylamine), alumina, phosphoric acid.

### **PREPARATIONS—**

**Specific Medicine Lycopodium.** Dose, from one to fifteen minims.

**Powdered Lycopodium.** For external use.

**Tincture of Lycopodium.** Dose, from one to twenty minims.

The tincture prepared from the triturated sporules, contains to the fullest extent the medicinal principles of the herb.

**Physiological Action—**The older writers claimed that the agent acted as a stimulant to the sympathetic visceral system of nerves and influenced the functional activity of all organs so controlled. It was believed to increase the tone of the liver, and to restrain over-action of the kidneys



and eliminative organs.

**Specific Symptomatology**—Extreme sensitiveness of organs of special sense. Pain under the ribs and around the waist; shooting pains under the shoulder blades; severe pains across the stomach; nausea; vomiting of sour and bitter food; persistent constipation; painful bleeding piles; coldness of the extremities; pale, ashy or jaundiced complexion, with dirty skin; in some cases of flatulence, with distention of the intestines; persistent constipation of children; irritation of the bowels following an injection; sour stomach and heartburn; in old standing congestions of the liver, with great desire to sleep after eating. All conditions accompanied with excess of uric acid are benefited by it.

**Therapy**—The simple powder is used extensively as an application to tender and irritable conditions of the skin, and as an application to certain skin diseases to which a dry powder would seem applicable—to **intertrigo, erysipelas, eczema, herpes**, and ulcerated surfaces and perhaps to burns. Its domestic use is in its application to chafed surfaces and as a dusting powder for infants.

The agent is said to be dependable in its influence upon certain severe forms of **dyspepsia**. That common condition present in catarrhal gastritis, evidenced by soreness on pressure over the stomach, and a sensation of fullness of the stomach when only a little has been eaten, is quickly relieved by its use.

It is advised in **rheumatic** conditions, especially if accompanied by any of the above indications. It is depended upon as a cure for the uric acid diathesis and in this probably lies its influence upon rheumatism.

Dr. Harrison of Illinois treated several cases of **fever** that had morning remissions, but the highest occurred in the middle of the afternoon, in which the urine was suddenly of a dark red color, and deposited the usual stains of the urates with considerable uric acid. In another case, there was cerebral and spinal irritation. The urine was similar in all the cases. Small doses of *lycopodium*, twenty drops in four ounces of water, a teaspoonful every two hours, was sufficient to modify all the conditions and overcome the fever.

In its action upon the urinary apparatus it relieves **urinary incontinence**, especially if caused by an excess of uric acid and the urates, painful urination and vesical catarrh.

It is also serviceable in gonorrhoea and in gleet.

## **LYCOPUS.**

## ***Lycopus virginica.***

Synonym—Bugleweed.

### **CONSTITUENTS—**

Volatile oil, bitter principle, gallic acid, tannin.

### **PREPARATIONS—**

**Specific Medicine Lycopus.** Dose, from one to twenty minims.

The principal therapeutic influence of *lycopus* seems to be upon the thoracic viscera, and consequently upon all lesions having diseases of these organs for their basis. The use of the *lycopus* may be confined to certain fixed indications with better results than follow its indiscriminate use in any general class of cases, regardless of conditions.

**Specific Symptomatology**—In diseases of the **heart**, either functional or organic, marked by **irritability** and **irregularity** of the organ, **dyspnea**, feeling of oppression in the cardiac region, its administration is followed by gratifying results. Hypertrophy and dilatation have been known to undergo marked diminution in consequence of its administration.

**Therapy**—It possesses tonic, sedative, astringent and narcotic properties, and has been successfully used in **incipient phthisis**, **hemoptysis**, etc. It acts like *digitalis* in reducing the velocity of the pulse, but has no cumulative effects. In pericarditis and endocarditis its sedative action lessens the frequency of the pulse, irritability, and its attendant inflammation, in a manner equaled by no other remedy.

Cases of **exophthalmic goitre** are reported as having been cured by *lycopus*, and it would be well to give it a thorough trial in this most intractable disease.

Goss said that in palpitation and valvular disease of the heart, *lycopus* is good; in **hemoptysis** it is so positive in its action that he seldom used any other remedy. He considered it a sedative as well as an astringent in its action, controlling the capillary circulation by diminishing the caliber of the vessels, thereby reducing the flow of the blood.

In diseases of the respiratory apparatus *lycopus* has been found to be very useful. Hemoptysis, associated with rapid and tumultuous heart's action, yields readily to its influence, as does **hemorrhage** from any part. Hale lauds *lycopus* highly for its efficiency when used in cases of **incipient phthisis** and in chronic inflammatory diseases of the lungs. By regulating the heart's action and equalizing the circulation in the lungs it mitigates or arrests the local inflammation.

Chronic **irritable cough**, arising from the smouldering inflammation in the lungs, can be cured by its administration. It has been used repeatedly in the high temperature of typhoid fever with uniformly good results; it not only effectually reduced the excessive heat, but in so doing, it did not depress in the least the vital forces of the patient.

To a certain extent it acts on the heart as a nerve sedative by lessening its action, also by constringing the blood vessels; hence, diminishing the flow of blood. We have in this valuable remedy much that is expected of *aconite* or *veratrum*, antipyrin, antifebrin, as an agent to reduce the heat in high temperature without many of their baleful effects. A dose of from one to five drops may be given every two to four hours. It is not necessary to give it regularly-only as indicated.

It is also good in **hepatitis**, if complicated with pneumonitis, in two-drop doses, once every three hours. In **hematuria**, if associated with calculi or catarrh of the bladder, *lycopus* is of benefit alternated with *chimaphila umbellata*.

Dr. Halbert and others combine *lycopus* with *chionanthus* and perhaps *belladonna* in the treatment of diabetes.

They claim that it influences patients that are naturally fleshy, previously very heavy, and who lose their excess of weight by this disease.

It is decidedly beneficial in the treatment of **diabetes**, curing a few cases after all other remedies have failed. It has proven beneficial in **chronic diarrhea** and **dysentery**, inflammatory disease of drunkards and in intermittents. It promotes digestion, invigorates the appetite, allays gastric and enteric irritability.

Dr. Langford says that *lycopus* will benefit more **gastric difficulties** than any other remedy that he has ever used, but does not specify the most particular indications that would suggest it.

Dr. Eads gives *lycopus*, fifteen drops every thirty minutes with cold compresses to the nape of the neck, for persistent nose bleeding.

Dr. LeBlanc lays great stress on its action in full doses in any passive hemorrhage.

There are many cases of scalding urine with frequency from vesical irritation that will be overcome by *lycopus* in full doses.

## **MAGNOLIA.**

### ***Magnolia glauca.***

Synonyms—Beaver Tree, Sweet Magnolia, White Bay, Swamp Sassafras, White or Red Laurel.

#### **PREPARATIONS—**

**The powdered bark.** Dose, from one-half to one dram, five or six times a day.

**Infusion,** wine-glassful.

**Tincture** from one-half to two drams.

**Therapy—**In the treatment of **intermittent fevers**, after the active stage has passed, *magnolia* has been used. It is not an agent for inflammatory conditions, but restores the tone of the gastro-intestinal tract, which has been lost through the persistence of prostrating fevers, or active malarial conditions. In **chronic rheumatism**, accompanied with prostration, and loss of appetite, with **mal assimilation**, the remedy may be used to advantage. It is not an active remedy, but one that has a few enthusiastic advocates.

## **BERBERIS.**

### ***Berberis aquifolium.***

Synonyms—*Mahonia aquifolia*, Oregon grape, mountain grape.

#### **Constituents—**

Berberine, oxyacanthine, berbamine, tannin, fat, resin.

#### **Preparations—**

**Extractum berberidis aquifolii fluidum.** Fluid extract of berberis aquifolium. Dose, from five to twenty minims.

**Administration**—The active principle of the agent is apt to precipitate if a combination is made with the iodide of potassium, as is often done with other vegetable alteratives. To avoid this the iodide solution should be rendered slightly alkaline by adding a few drops of the liquor potassae before the combination is made.

**Physiological Action**—In overdoses, in some cases the agent produces tremor of the limbs, lack of muscular power, dullness of the mind, drowsiness and active diuresis. It is not a poisonous agent.

Its influence upon the secretion of the entire glandular structure of the digestive and intestinal tract is steady, sure, and permanent, although not always as immediately marked as some other agents.

It stimulates all the glandular organs of the body. It stimulates digestion and absorption. and thus improves general nutrition. It materially stimulates waste and repair.

John Aulde in 1911 advised this remedy for its immediate influence upon the digestive apparatus, the blood, and the secretions. He said constipation is relieved and the bowel movements become regular and natural. The **complexion clears**, the muscular strength increases, and **the skin** and urinary organs become more active. I have found it indeed serviceable in **syphilis** and in **scrofula**, the general indications being peculiar to indigestion such as coated tongue, fetid breath, and a general feeling of malaise from blood disorders. This is strictly in line with our own teachings.

**Specific Symptomatology**—The specific action of this agent is in scaly, pustular and other skin diseases due to the disordered condition of the blood. It is the most reliable alterative when the influence of the dyscrasia is apparent in the skin. It is given freely during the treatment of skin diseases where an alterative is considered an essential part of the treatment.

**Therapy**—It has cured persistent acne for the writer, when no local treatment was used. It contributes to the removal of **pimples** and **roughness** and promotes a clear complexion, a soft, smooth and naturally moist skin in sensitive young ladies , when the cause is not a reflex one from **ovarian** or **uterine** irritation, or menstrual irregularity.

It seems of especial value in scaly skin diseases and in disorders of a

non-inflammatory type, and yet it works nicely in some cases of the moist variety.

It has cured very many cases of **salt rheum** even when the symptoms were chronic in character and greatly exaggerated.

In moist eczema it has acted most satisfactorily, but has usually been given in conjunction with other treatment. Dr. Soper, in 1884, reported in the Therapeutic Gazette a most intractable case of moist eczema of an acute character covering the entire body. No other alterative was given. The case was cured in four weeks. In **eczema capitis, eczema genitalis**, with **pruritus** and in **scaly eczema** of all kinds, it has been given alone and has acted promptly and surely.

It has cured cases of **scald head**, so called, in a few weeks, restoring tone and vigor to the hair.

It has been often used in **acne**, and has worked nicely when local or reflex irritation was not the cause.

In **psoriasis** and in **pityriasis** it has won the praise of many doctors. For **dandruff** it has been given internally and has produced cures in a number of cases,

In many instances various forms of **chronic dermatosis** have yielded to its influence when other treatment has failed.

It should be prescribed in glandular **indurations** and chronic **ulcerations**, both of a scrofulous and syphilitic type, giving excellent results in these cases. It is lauded highly in **syphilis**, though it has seldom been given alone in this condition, but usually with other vegetable alteratives, the value of which, however, it has seemed to greatly enhance. Of this fact, I am positively convinced because of the rapid disappearance of the characteristic eruption, and the marvelously smooth condition of the skin which has followed with my patients when this agent is given in this disease.

When first introduced it was recommended in chronic malarial conditions, in **intermittent fevers**, and in the stomach, liver, intestinal and general glandular disorders of these fevers. It was claimed that its tonic influence was conspicuous in these conditions and that in certain cases it exercised marked antiperiodic properties. It certainly acts as a



antiseptic properties which are advantageous in malaria in septic trouble. It has distinct tonic properties. It reduces the pain of **dysmenorrhea**, controls **leucorrhoea**, reduces an exhaustive menstrual flow, and regulates this function. Prof. Howe gave it when there was developing tumor of the uterus, expecting to control the abnormal growth. It is useful also in irregular, passive hemorrhage.

**Therapy**—This agent has something of the same influence that any active tonic astringent would have combined with capsicum or other stimulant and an antiseptic. It seems to be a stimulating astringent tonic, correcting septic conditions. In **malignant disease** of the **throat** this author has been in the habit of using sulphurous acid, and *pinus canadensis*, or *quercus*. This remedy takes the place of both to an extent. It should be applied to the fauces, should be gargled, and also used internally. It will be found beneficial in **ulceration** of the **mouth** or other mucous surfaces. It has been for some time recommended in the treatment of **nasal catarrh**, and in **vaginal leucorrhoea**, in **bronchial catarrh** also. It is specific to diarrheas where there is a great degree of relaxation and lack of tone, and where a stimulating astringent is needed.

Dr. Harrison gives *mangifera* freely in **diphtheria** and **tonsillitis**, two drams in four ounces of water, a teaspoonful every half hour or hour, treating other indications with *aconite*, *phytolacca*, or *jaborandi* as required. He used it in post-partum hemorrhage also. He says that when the mucous membranes are red, tender, swollen, perhaps inflamed, and have a tendency to throw out a discharge, then this remedy does the best good. It is a mucous membrane remedy.

Dr. Lisk used this remedy in the treatment of hematemesis with much success.

In the uric acid diathesis, Dr. Rew gives *mangifera*, in conjunction with sulphuric acid in small doses every two or three hours with good results.

Dr. Barnes of Illinois reports several cases of severe uterine hemorrhage both post-partum and during the menopause, cured with this remedy.

In syphilitic throat trouble, an advantage is gained by combining *mangifera* with *thuja*. In extreme cases, the **ulceration** should first be touched with persulphate of iron; then *thuja* and *mangifera* used both to the ulcerations, and internally.



Dr. Jennie M. Covert reports extreme **uterine engorgement** and **dysmenorrhea** cured by mangifera and tiger lily. (Ellingwood's Therapeutist for September, 1910.)

Where there is mucopurulent discharge, either from the bowels or from the uterus, Dr. Linquist says he knows no agent equal to it. The dose is small, easily administered, has no disagreeable taste, it is acceptable to the stomach, and more certain in its influence than most of the better known astringents. In some cases where pain is present with these conditions named, the pain seems to be relieved by the remedy. It has relieved the excessive albumen present in some cases of **albuminuria**, but has not seemed to promote a cure on the few cases used. It may be applied directly to **cervical ulceration**, and excessive **vaginal leucorrhoea**, either of a specific or nonspecific character, and will be productive of good results.

## **MATRICARIA.**                      *Matricaria chamomilla.*

Synonym—German Chamomile.

While this remedy very closely resembles *Anthemis Nobilis* or *Roman chamomile*, there are several distinguishing features in their actions. At the same time these are not sharp. All that has been said of *Anthemis Nobilis* can be said of this preparation.

**Therapy**—*Matricaria* is conspicuously a child's remedy, but not distinctly so. A few drops in half of a glass of water, given every few minutes in dram doses, will quiet extreme restlessness and irritability. The general soothing effect is satisfactory. It especially controls certain forms of colic. Peevish children and those who are continuously fretting, or crying out and who demand constant care are benefited by this remedy. It influences the membranes of the gastro-intestinal tract. It is advisable when the patient has contracted a cold, or when there is general chilliness; when the symptoms of la grippe in children are present, especially where there is disturbed condition of the digestion, inducing diarrhea sour eructations or acid vomiting and colicky pains.

The Homeopaths advise it where there are greenish flocculent particles in the loose watery feces of a patient with diarrhea. The movements are slimy or yellowish, with an offensive odor, and are acrid, and produce excoriation of the external parts. With these patients there are often

muscular twitchings and an inclination to spasm. The remedy has a sedative influence in these, but must not always be depended upon for its active antispasmodic effect. It may be given during dentition, and being continued the irritability can be quite satisfactorily controlled. It is often necessary to give more active anodyne remedies.

## **ALFALFA.**

## ***Medicago sativa.***

Synonyms—Alfalfa, Spanish Clover, California Clover, Lucerne.

**Physiological Action**—On taking large doses of an infusion of the leaves of *alfalfa* as one would drink tea or coffee, there is a sensation of warmth in the stomach with fullness of the blood vessels of the head. (A sensation which *gelsemium* removes.) The stool early in the morning is mushy, and dark green, much like after taking bismuth, but without pain or tenesmus. A large dose at night, other symptoms calling for it, produces a good night's rest and decreases any burning sensation on micturating as seen in cases of early gonorrhoea. The above are observations that were made on ten men and five women who took this drug, *alfalfa*. They were in usual good health and free from any organic trouble. Some took it for two months, and some only for ten days to two weeks.

There is an increased secretion of the kidneys from this agent and in the female, of the milk glands; increased peristaltic action of the bowels; increased appetite; increased assimilation of food, and increased weight. In one case, there was a disappearance of swelling of the milk glands. There is a sensation of weight in the female genitalia with bearing down sensations. (In the males, the scrotum feels heavy and there is distress in the spermatic cord as if strained. Neutralization of acid urine occurs with itching of the corona glandis, found in some cases of enlarged prostate.)

These observation were made by Dr. Ben A. Bradley of Hamlet, Ohio.

From the fact that *alfalfa* increases the flow of milk in cows while they are yet gaining in flesh, Dr. Bradley gave the remedy freely to mothers who were insufficiently nourished, and secreted but little milk, or milk devoid of its nutritious properties, for the child.

In every case so administered, the patient showed a satisfactory increase in flesh and strength. The digestive apparatus, whatever the disorder, assumed its normal function, and in some cases the patients took on a fair increase in flesh.

He believes that a tea made of *alfalfa* will readily take the place of ordinary tea and coffee, and as a beverage for certain periods, he has found it to take away the taste for these commoner beverages and preserve an excellent condition of the stomach.

With one woman who in three previous births had had kidney complications with uremia he preserved with this agent a normal condition of all tile functions, through the pregnancy and labor.

He finds in alfalfa a **superlative restorative tonic**, but it does not act as a stimulant, after the manner of alcohol, cocaine or other habit-forming drugs. It rejuvenates the whole system by increasing the strength, vim, vigor and vitality of the patient. In all cases, the ever-marked condition calling for the remedy is despondency, along with loss of flesh, whether the case is one of stomach trouble, such as indigestion, dyspepsia, general and nervous debility, anemia, marasmus, loss of appetite and poor assimilation, as shown by loss, of flesh and constipation, with the always accompanying condition, depression. *Alfalfa*, administered in the dose one or two drops in a bottle of milk three times daily, is especially useful with bottle-fed babies. One physician prescribed it where there was dropsical effusion where the kidneys were inactive, and the skin dry, and in every case so administered, it gave satisfactory results.

In old men, it relieves prostatic irritation. It relieves irritable conditions of the urinary apparatus.

Dr. Houts cured backaches where the patient was passing a small quantity of urine with high specific gravity, especially where there were rheumatic indications, with much muscular aching with excessive quantity of urates and uric acid.

Dr. Bradley reports one family where seven children had died at the age of eighteen from some undefined disorder with great emaciation. The eighth child, a daughter, exhibiting the same symptoms was kept on a tincture of *alfalfa seed* fully saturated, ten drops four or five times a day. The condition disappeared, the patient increased in weight from 99 to 133 pounds, and recovered her health.

In a concentrated form, this will be probably found nutritional, occupying in some particulars a position like that of *avena*, improving the functional action of the brain and spinal cord. We have introduced this

remedy here because it promises well for the future, and must not be overlooked.

## **CAJUPUT.**

## ***Melaleuca cajuputi.***

**Part Employed**—The volatile oil. Solvent, alcohol. Dose, from two to ten minims.

### **CONSTITUENTS—**

Cajeputene, iso-cajeputene, and para-cajeputene.

### **PREPARATIONS—**

**Spiritus Cajuputi**, Spirit of Cajuput. Dose, one fluid dram.

**Mistura Cajuputi Composita**, compound Cajuput Mixture. (Hunn's, Life Drops.) Dose, from, one to two fluid drams.

**Tinctura Camphorae Composita**, Compound Tincture of Camphor. Dose, twenty drops.

**Therapy**—It is used in the typhoid state, in the stage of collapse in Asiatic cholera, in exhaustion from cholera infantum, the typhoid condition in malignant scarlet fever.

*Oil of cajuput* is a diffusible stimulant of great power, and is indicated in all depressed and collapsed states of disease where there is no inflammation; such as we find in the advanced stage of adynamic **fevers** and **malignant diseases**.

*Cajuput* is a vermifuge, and may be used to destroy intestinal worms. It is antispasmodic, and is one of the most successful remedies ever employed in the painful cramps of **Asiatic cholera**. It is equally efficient in **cholera morbus**, **cholera infantum**, nervous vomiting, hysteria, and wherever there is depression of the vital powers associated with spasmodic action.

It is important that there should be no inflammation present when *cajuput* is employed; and when it is given internally in such complaints as cholera morbus, or spasms of the bowels, care should be taken not to excite inflammation of the stomach by a too free use of the remedy.

Its action is similar to *prickly ash* as a stimulant.

In the combinations known as Hunn's Drops and the compound liniment of *camphor* it has been employed.

In Asiatic cholera, *oil of cajuput*, in various combinations, was an established means of treatment among the older Eclectics. It stops the spasms, overcomes the collapsed condition, and in many cases effects complete reaction. In like manner it controls the vomiting, cramps and diarrhea in cholera morbus and allied diseases.

In acne rosacea, psoriasis and other scaly skin diseases the oil, undiluted, should be applied to the diseased skin three times a day.

In toothache the oil should be applied to the cavity of the tooth on cotton.

In neuralgia the oil should be applied to the seat of pain.

In rheumatism, bruises, sprains, contusions, chilblains, lameness, and other painful affections, the compound tincture (liniment) of *camphor*, well rubbed in before the fire, will be found to afford relief.

The *oil of cajuput* and its preparations may be given on sugar, or mixed with honey, or in an emulsion, or in warm brandy and water.

## **MELILOTUS. *Melilotus officinalis alba.***

Synonym—Sweet clover.

**CONSTITUENTS**—Coumarin, melilotic acid, coumaric acid.

### **PREPARATION—**

**Emplastrum Meliloti**, Melilot plaster.

**Specific Melilotus.** Dose, from one to ten drops.

**Specific Symptomatology**—Spasms, colic, dysuria, dysmenorrhea; in painful cough, spasms from dentition, pain in the stomach, rectum, or uterus, neuralgic rheumatism.

Dr. Reed gives *melilotus* in cases where *ergot* would seem to be indicated; where there is **fullness of circulation of the brain**; a tendency to nose bleed, often followed by sick headache; where the action of the heart is oppressed with occasional palpitation. He believes that in all three cases it is an excellent remedy.

**Therapy**—*Melilotus* is a stimulant to the local circulation, and is adapted

to those cases where **debility** or a **feeble vital power**, as in delicate females and **poorly nourished infants**, is associated with congestion, as in atonic neuralgias and spasms occurring during the period of **dentition**, and in congestion of the uterus, ovaries, rectum, bowels, stomach, or bladder in feeble subjects. It is also a remedy for pain from determination of blood as in headache with throbbing.

An ointment made from the leaves is an efficacious application to all kinds of ulcers.

A fomentation of the leaves and flowering tops may be applied with good effect in inflammation of joints, and local pain in the abdomen.

Engorged conditions of the uterus are treated very successfully by four or five-drop doses every two hours of *melilotus*.

## **MENTHA.** *Mentha piperita*

Synonym—Peppermint.

### **CONSTITUENTS—**

Volatile oil, resin, tannin, gum.

### **PREPARATIONS—**

**Aqua Menthae Piperitae**, Peppermint Water. Dose, ad libitum.

**Olium Menthae Piperitae**, Oil of Peppermint. This is a volatile oil prepared from the fresh herb by distillation with steam—a greenish-yellow liquid, having a pungent odor and taste. Dose, from one to fifteen minims.

**Physiological Action—***Peppermint* is a powerful diffusible stimulant, carminative, antispasmodic, stomachic, and in the form of the volatile oil a local anesthetic.

**Specific Symptomatology—**Flatulent colic, gastrodynia, nausea, **vomiting**, spasmodic pain in the bowels, hiccough, **palpitation** from indigestion, griping, cholera morbus, cholera infantum, spasmodic cholera, irritability of the stomach, **diarrhea** with abdominal pain, nervous headache, painful gonorrhoea.

**Therapy—**In fevers of an inflammatory character caused by exposure to

cold and damp, with nausea and vomiting, a warm infusion of *peppermint* may be given to produce perspiration and promote a cure, as it is a very efficient diaphoretic.

The oil of *peppermint*, on account of the menthol present in it, is a local anesthetic, and may be employed to relieve local pain, as in the inflamed joints of **rheumatism**, as a spray in painful inflammation of the throat and fauces, and in any painful condition where a direct application of the anesthetic can be made.

Where the food tends to ferment in the stomach and bowels, it may be given in doses of three to five minims in capsules, as an antiseptic to prevent fermentation and promote digestion.

When a local application of the *oil of peppermint* is made, the parts, where practicable, should be covered with oiled silk or rubber cloth to prevent evaporation.

A spray of *oil of peppermint* may be inhaled with relief of many of the distressing symptoms incident to asthma and chronic bronchitis of the aged.

*Oil of peppermint* applied to carious teeth will promptly relieve the pain of **toothache**. The cavity should be dried and a pledget of cotton saturated with the oil placed in it.

In the extreme irritability of the stomach in **cholera morbus** and in painful stasis of the stomach and bowels, the *spirit of peppermint* may be given at frequent intervals in hot, sweetened water, while hot fomentations should be applied to the abdomen at the same time.

In the pain of **acute indigestion**, and in painful diarrhea and dysentery, while *peppermint* will prove a valuable analgesic it is more important to the safety of the patient to empty the stomach with an emetic of the compound powder of *lobelia*, or move the bowels with a cathartic of sulphate of soda; when the cause is removed the pain and danger will pass away.

In burns and scalds *peppermint* is both soothing and curative, the parts being kept wet with it. It is a stimulating dressing, but is not objectionable on this account.

In **rectal pruritus**, and in painful papillary growths at the orifice of the female urethra, either the *oil of peppermint* or menthol may be employed as a local anesthetic to relieve the itching and pain.

In painful bowel complaints with inflammation—pain on pressure, tongue dry, with reddened tip and edges, *peppermint* should not be given. In any case if the remedy does not afford relief in a reasonable time it should be discontinued.

## **MITCHELLA.**                      *Mitchella repens.*

Synonyms—Partridgeberry, Squaw Vine.

### **CONSTITUENTS—**

Saponin-like, resin, wax, dextrine, mucilage.

### **PREPARATIONS—**

**Specific Mitchella.** Dose, from five to sixty minims.

**Syrupus Mitchellae Compositus,** Compound Syrup of Mitchella.  
Dose, from one to two drams.

**Therapy—**The sphere of action of *mitchella* is upon the reproductive organs, particularly upon those of the female. It is not enlarged upon by our writers, but is known positively to a few practitioners. It is **par excellence** the **partus preparator**. The importance of removing every possible influence that increases in any way the severity of **labor**, does not impress itself upon physicians, unless an exceedingly severe labor is anticipated, when the excess pain is alleviated at the time by chloroform and morphine. Not only can all complicating influences be removed, but the nervous system can be so influenced that parturition to the mother can be shorn of dread and terrors, and can be looked forward to without anxiety or fear. We are so apt to think of the pain and horror of labor as a natural inheritance for each mother—something that she must expect, and should not try to shun, that we do not take the care we could in many cases, to shield her from it.

If a good preparation of *mitchella* be administered once or twice daily for the sixth and seventh months of pregnancy, three times daily for the eighth month, and in larger doses as confinement approaches, the influence upon the entire system will be most marked. I have observed this influence in so many cases that doubt is impossible. Erratic pains and unsatisfied longings are removed, the nervous system assumes a



tranquil condition, reflex symptoms abate, the urinary function is performed normally, the bowels become regular, imperfect digestion is improved, and the appetite becomes natural. Labor approaches, devoid of the irritating, aggravating complications, the preparatory stage is simple, the dilatation is completed quickly, the expulsive contractions are strong, unirritating, and effectual, and are much less painful than without the remedy; involution is rapid and perfect, there are no subsequent complicating conditions to contend with, the patient's strength is not abated, and the function of lactation is in its best condition. This has been proven in very many cases. After making the above statements, evidences accumulated rapidly confirming their truth.

Auxiliary measures such as judicious dieting, a thorough oiling of the enlarged abdomen, and an occasional hot sitz bath for the last few weeks will materially assist the remedy. Less of it need be taken.

The bark of the fresh root in hot infusion given occasionally during the progress of labor when no previous care of the patient has been afforded the physician, will work wonders in some tedious aggravating cases.

In **uterine disorders** at other times this agent is a most effectual remedy. It overcomes painful menstruation, regulates the function, relieves congestion in the pelvic organs and soothes general irritation of the nervous system from uterine or ovarian causes.

Dr. Hemminger of Pennsylvania uses *mitchella* to **prevent abortion**. He gives it in twenty drop doses three times a day. In two years he had six cases that had aborted from one to three times each, always with dead children. With the use of this medicine, each of the six gave birth to a healthy child. The medicine was given throughout the entire period of gestation.

**Co-Operatives**—It works harmoniously with *cimicifuga*, *pulsatilla*, *aletris*, *helonias*, *senecio aureus*, and *viburnum*. Combinations of these agents compose the usual proprietary compounds, advertised as “female regulators.”

## **MONARDA.**

## ***Monarda punctata.***

Synonym—Horsemint.

## CONSTITUENTS—

A dark-yellow volatile oil which contains thymol. Soluble in alcohol. Dose, from one to five drops.

**Physiological Action**—In its general influence *monarda punctata* is a pure active stimulant of a diffusible character; a few drops of the oil on the tongue will produce a stimulation which will be felt at the tips of the fingers in a few minutes. It stimulates the nervous system and increases the heart's action, taking the place of alcoholic stimulants to a great extent. The essence, tincture or infusion are all prompt in their action. It soothes nervous excitement when due to exhaustion, promoting sleep and rest. Upon the stomach, in whatever form taken, it is a stimulant tonic and carminative.

**Therapy**—It soothes **gastric and intestinal pain** in the absence of inflammation, especially in Cholera Morbus and overcomes nausea and vomiting. It controls diarrhea from debility with relaxation of the mucous structures of the intestinal canal.

The agent is efficient in the control of **vomiting** due to exhaustion, or persistent nausea with flatulence present in dilated stomach, or the **vomiting of alcoholics**, in whom it will, in part, **supply** the craving for liquor, and impart a temporary tone to the stomach and nervous system. Dr. Laws claimed to prevent fully, all nauseating influence of *lobelia* and *ippecac* by this agent and from this influence he learned to try it in all cases of vomiting, usually with much satisfaction. He believed its influence controls irritability of the pneumogastric.

It may be given with *turpentine* or *gaultheria* in extreme atonicity of the intestinal tract in protracted fevers with tympanites. It is to some extent a diaphoretic, and has also a diuretic action which is important in these fevers.

The agent has been used to considerable extent as an emmenagogue, and is sometimes efficient in simple retention of the menses from cold.

**Note**—As sedatives to nausea and gastric irritation, other agents, as hydrocyanic acid, ingluvin, ferrocyanide of iron, and *ippecac* in small doses, are efficient, and this property is fully described in the consideration of the therapy of those agents in other chapters.

## MYRICA.

### *Myrica cerifera.*

Synonyms—Bay Berry, Wax myrtle, Candle Berry, Wax berry.

#### PREPARATIONS—

The **powdered bark**, from twenty to thirty grains.

Of the **wax**, one dram.

Of the **decoction of leaves or bark**, from two to four ounces.

**Tincture**, from five to forty drops.

**Specific myrica**, from two to twenty drops.

**Specific Symptomatology**—The agent is a stimulating astringent. It is indicated when there is excessive mucous discharge, where catarrhal conditions exist in any locality, especially in the gastro-intestinal tract. Also where **atonic diarrhea**, or persistent diarrhea, accompanies prostrating disease; also where there is feeble capillary circulation of the mucous membranes, accompanied with **phlegmenousulceration**. Locally and internally in sore mouth, with **spongy, bleeding gums**.

**Therapy**—It is a remedy for those conditions where the vital powers are at low ebb. It aids the nutrition, stimulating the absorption of food, and promotes the restoration of depraved blood. It is considered a valuable alterative. In any condition where the mucous surfaces have lost tone, and are throwing out a profuse discharge, it may be given with advantage. It has been found valuable in **epidemic dysentery**. In conjunction with **capsicum**, its stimulating and tonic properties are plainly apparent. Combined with **geranium**, it is of superior benefit, where the patients have taken mercury and where ptyalism has been induced. It assists in the more rapid elimination of the mercury from the system. Combined with **asclepias**, it is of much value in breaking up recent severe colds. Unlike most astringents, it materially improves excretion, secretion and the functional action of the glandular system.

In **chronic stomatitis**, of whatever form, where the breath is bad, and there is slow ulceration, the mucous membranes being dark colored, this remedy in combination with other indicated remedies, will effect a rapid cure. If the stomach is foul, and the breath and fecal discharges are offensive, it should be given with an emetic, until the stomach is thoroughly evacuated. In combination with **saguinaria** it will be found useful in removing abnormal growths from the post-nasal cavity. Sufficiently diluted, and combined with **hydrastis**, it may be applied to

the mucous surfaces, in chronic nasal catarrh.

It is valuable in the treatment of very severe forms of **measles** and **scarlet fever**. It is especially useful in the persistent sore throat of scarlet fever when the tissues are swollen and spongy. Given in conjunction with antispasmodics, it will improve the action of that class of remedies, in many forms of **convulsions**.

Scudder claimed that the agent was a stimulant to the essential processes of digestion, blood-making and nutrition. The remedy may be given to advantage to those patients who are afflicted with chronic malarial symptoms and **jaundice**, with imperfect liver action, who are troubled with headaches, which are worse in the morning. The tongue is coated yellow, there is weakness and the patient complains of muscular soreness and aching in the limbs. The pulse is slow, the temperature is inclined to be subnormal. There is dull pain in the right side. No appetite, unrefreshing sleep, or where there are catarrhal conditions of the bile ducts resulting, in jaundice.

## **OENANTHE.**

## ***Oenanthe crocata***

Synonym—Water Dropwort.

### **CONSTITUENTS—**

An acrid emetic principle (resin), essential oil.

### **PREPARATIONS—**

**Specific Oenanthe.** Dose, one-twentieth to one-half minim.

**Administration—**The profound influence of this agent upon the nerve centers is quickly observed. It must be given in minute doses. Five drops of the specific medicine in three, four or even six ounces of water will be found sufficient. Fluid extracts or ordinary tinctures are not to be prescribed, because of uncertain strength.

**Physiological Action—***Oenanthe crocata* is extremely poisonous, and from its resemblance to common garden parsley has frequently caused death in men and animals. Toxic doses cause burning heat in the throat and stomach, with disturbance of intellect, cardialgia, nausea, vertigo, violent convulsions, furious delirium, or profound sleep; loss of sight, hearing and speech; rolling of the eye-balls upward, feeble pulse, abolition of sensation and of motive power, with increasing intellectual dullness.

There are universal chills, rose-colored spots on face, breast and arms; lividity and swelling of the face, with trismus and bloody froth from mouth and nostrils, stertorous breathing, coma, death.

Autopsies performed on patients dead from the accidental use of this agent have shown an engorgement of the blood vessels of the brain and cord. There was effusion of blood and bloody serum in the occipital foramen. The sinuses of the dura mater and the veins of the pia mater also were distended with blood, as were also the sinuses of the vertebrae. There were apoplectic foci in the cerebral mass. There was serous effusion in the cellular tissue beneath the arachnoid, in the ventricles and at the base of the brain.

**Therapy**—The agent acquired a reputation in the treatment of **epilepsy**. It has cured a few violent cases and very many cases of **petit mal**. Fisk reported five cases cured, and other trustworthy investigators have had similar results. It is indicated in those cases which, instead of fullness of the capillary vessels of the brain and spinal cord, there is anemia of these organs more or less marked. This distinction was made by Henning, and is an important one.

It has proved of value in cases where epilepsy has resulted from injury, in cases where there is an impairment of the brain structure and imperfect cerebral circulation with impairment of the nutrition of the brain.

It has not increased in reputation, nor has our knowledge of its action increased greatly during the past fifteen years. It deserves a closer investigation.

## **OLIVE**

## ***Olea europea***

**Part Employed**—A fixed oil from the pericarp.

**Therapy**—Olive oil or sweet oil is a nutritive and laxative for children. It must be given in doses of one or two tablespoonful. It can be flavored and rendered palatable. It may be given whenever **irritating substances** are retained in the intestinal tract and when **convulsions** are present from gastro-intestinal irritation. It can do no harm. Violent and profound **convulsions** with **acute enteritis**, from swallowing the seeds of grapes, have been controlled at once by the writer, with large doses oil internally, and by using rectal injections of the oil very warm, large quantities of the seeds being removed and the local irritation soothed.

It is now generally used internally and externally in the treatment of **appendicitis**, and it is a most efficacious remedy. It is given freely, internally at regular intervals, and after its external application heat is kept constantly applied. Indicated remedies for the fever and for the prominent symptoms should not be overlooked.

It is of much value in the removal of **biliary calculi**. In these cases from six to twelve ounces is the necessary quantity for administration, repeated three or four times daily. The influence is often pronounced.

It is an excellent agent in **dysentery**, whether of infants or adults. It may be given *per orem*, and a quantity subsequently injected into the rectum after a bowel movement. If for an adult, two ounces, into which ten drops of laudanum has been rubbed, is injected, often the distress is so relieved that it need not be repeated.

The injection of sweet oil is essential in **impaction** of the **feces**, and where there is great deficiency of intestinal secretion, or where **scybala** form, or where there are **ulcers** or fissures and great pain is induced by the presence of fecal matter in the rectum.

A feeble, newly born infant may be quickly bathed in warm sweet oil and wrapped in cotton, and surrounded by heat and not dressed for several days. The oil can be wiped off once daily with a soft linen cloth and fresh warm oil applied. In healthy infants it is better to apply warm oil freely, wipe it off once and apply more. The child should then be wrapped in warm wrappings and not dressed for twenty-four hours.

Olive oil is the best of lubricants, and the carbolized oil is used for chafing and upon hands and instruments in surgery, and in vaginal examinations, and in introducing bougies or catheters. If a stream of warm oil be forced into the urethra in spasmodic stricture just in advance of the catheter, the dilation may be made satisfactorily, and the catheter may be introduced when that act was previously impossible.

Olive oil is exceedingly valuable in the treatment of sprained, bruised or contused parts, applied warm on absorbent cotton and kept hot. It acts as nutrition to the part, diffuses the heat and is markedly soothing in its influence.

Olive oil is used to protect the mucous surfaces of the esophagus and



The Wm. S. Merrell Co. make a **normaltincture** of which from one to ten minims may be given in water.

**Specific Symptomatology**—It is indicated where there is dropsy, especially in aged people, or general dropsical effusion, accompanied with loss of vital tone. Also where there is deficient renal action, accompanied with painful urination. Urinary irregularities of the aged.

**Therapy**—This agent has been used in **dropsy** in a few cases with marked results. It is not only used in **anasarca** and **ascites**, but also in **pleuritic effusion**, **hydropericardium** and **hydrocele**. It improves the general condition on which the dropsy depends, increasing the action of the heart and arterial tension. Dr. A. W. Smith reports several cases in which the general dropsy was relieved in a very short time. The remedy improved the general nutrition in each of the cases, overcame **difficult breathing** and increased the power of the heart.

In the **dropsy of the aged**, that follows prostrating disease, *oxydendron* is indicated. It is indicated where there is **deficient renal action**, especially if there is some painful urination, and in the **urinary irregularity** of old people. It is not easy to define that class of cases of dropsy in which it is specific as in some it works beautifully and in others it is ineffective.

Dr. N. A. Graves says that where there is general edema from **dropsy of the heart**, liver or kidneys—**general dropsy**—he has had good results. He gives from twenty to thirty drops of the specific medicine every four hours and could give even larger doses. He uses it with *aralia*, occasionally. Where there is dropsy of the serous cavities, he thinks it is not the best remedy.

Dr. Manley gives *sour-wood* with other remedies in the dropsy of **diabetes**, and believes that it improves the general condition of the patient. One of our doctors said his grandfather, an old botanic physician, gathered the leaves and boiled them in water for three hours. He would then strain the decoction and reduce the fluid until it was entirely evaporated. He would roll it up in form of pills and give one of them three or four times a day, improving his cases of dropsy very generally.

This remedy is considered valuable in the treatment of **prostatic disease**, chronic enlargement of the prostate, with irritation at the neck of the bladder, urinary irritation from other causes, especially the urinary difficulties of the aged. It is a diuretic, more or less active in proportion to



the size of the dose. It promotes the absorption and elimination of dropsical effusions in a characteristic manner, especially those of the abdominal cavity. Given to patients suffering from protracted fever, it will make a cooling and pleasant drink, which promotes the elimination of all of the excretions and restores secretion. Felter and Lloyd state that when a frequent desire to urinate is accompanied with a burning pain at the urethral outlet, the urine passed in drops and mixed with a little blood, it is an especially valuable remedy.

## **PANAX**

### ***Panax quinquefolium.***

Synonym—Ginseng.

#### **CONSTITUENTS—**

Panaquilon, gum, resin, starch, albumen.

#### **PREPARATIONS—**

**Specific Medicine Panax.** Dose, from five to sixty minims.

**Therapy—**This agent is an important article of commerce in China, being a general domestic remedy and highly prized. It is a mild sedative and tonic to the nerve centers, **improving their tone**, if persisted in, and increasing the capillary **circulation** of the **brain**. It is given in **cerebral anemia**, and if combined with other tonics is capable of doing some good. It is also prescribed in the failure of **digestion** incident to **nervous prostration** and general nerve irritation.

## **OPIUM.**

### ***Papaver somniferum.***

*Opium* is the concrete milky exudation obtained by incising the unripe capsules of the white poppy of Asia Minor.

#### **CONSTITUENTS—**

Morphine, Codeine, Thebaine, Pseudo-Morphine, Narcine, Narcotine, Papaverine and twelve other alkaloids combined with Narceinic acid.

#### **PREPARATIONS—**

**Hopi Pelvis**, Powdered Opium. Dose, one-half to two grains.

**Tincture Hopi**, Tincture of Opium. Dose, five to twenty minims.

**Tincture Hopi Dehydrate**, Tincture of Deodorized Opium. Dose, five

to twenty minims.

**Tincture Hopi Camphorate**, Camphorated Tincture of Opium (Paregoric). Dose, from one-fourth to two drachms.

**Pelvis Ipecacuanhae et Hopi**, Powder of Ipecac and Opium (Dover's Powder). Dose, five to ten grains.

**Pelvis Ipecacuanhae et Hopi Composites**, Compound Powder of Ipecac and Opium. (Beach's Diaphoretic Powder.) Dose, three to five grains.

**Morphine Sulphas**. Dose, one-tenth to one-fourth grain.

**Pelvis Morphine Composites**, Compound Powder of Morphine. (Tulsa Powder.) Dose, five to ten grains.

## **MORPHINE.**

A white or colorless crystalline body in shining prismatic crystals; soluble in thirty-six parts of hot alcohol, and in alkalies; almost insoluble in water. But little used in medicine. Dose, from one-eighth to one-fourth of a grain.

The following salts of morphine are in common use:

### **Morphine Acetate.**

A yellowish-white crystalline body, or an amorphous powder, bitter, inodorous except a slight odor of the acetic acid; soluble in two and one-half parts of water. Dose, from one-twentieth to one-half of a grain.

### **Morphine Sulphate.**

In white feathery, silky crystals, without odor; of an intensely bitter taste; soluble in twenty-one parts of water and in seven hundred parts of alcohol. Dose, one-tenth to one-fourth of a grain.

### **Morphine Hydrochlorate.**

Muriate of Morphine occurs in white needle-shaped, feathery, lustrous crystals; bitter and odorless; soluble in twenty-four parts of water and in sixty-two parts of alcohol. Dose, from one-twentieth to one-half of a grain.

### **Apomorphine Hydrochlorate.**

This is the product of the action of hydrochloric acid on a modified form

of the alkaloid morphine. It may also be obtained from codeine. It occurs as white or grayish white crystals, without odor, bitter, turning slightly green upon exposure to the air; soluble in forty-five parts of either water or of alcohol. If it produces an emerald-green tint in solution in water it must be rejected. It may become changed in character and dangerous. Solutions must be freshly made.

Apomorphine was first used only as an emetic; usually hypodermically. The dose for this purpose is from one-twentieth to one-sixteenth of a grain, although one-eighth of a grain may be given. It is not safe in any dose with children. It may be given to eject bodies from the esophagus to evacuate the stomach after the injection of poisons, and in extreme asthmatic or catarrhal attacks.

A field of action has developed for this remedy, outside of its influence as an emetic, which is important. There is a consensus of opinion among careful observers as to this influence. One writer says that in wild delirium, sleep may be induced with this remedy, and a restful quiet. It should be given in doses of from one one-hundredth to one-thirtieth of a grain, hypodermically injected. The dose is less than the emetic dose, and yet sufficient to produce a physiological effect. It is not given until after the patient is undressed and in bed ready to go to sleep.

Where it is used for its hypnotic effect alone, and the patient has not previously taken it, it might be well to begin with a dose as small as the one one hundredth of a grain. In sthenic, cases, with much delirium, a little nausea need not be avoided. The influence of the agent is not protracted, and in some cases it must be repeated in two or three hours. In others it produces a restfulness, which results in sleep, independent of further action of the remedy.

In hysterical attacks, the agent is valuable, as it produces general quiet, and refreshing sleep. It may be used in the place of morphine and *opium* with those who are addicted to a habit for these drugs, and it will produce the same results. The drug is a treacherous one, and consequently dangerous, and must therefore be given with care.

In very minute doses, it is given in **bronchitis**, where there is a deficiency of secretion, or in croup, producing relaxation and expectoration. It is given as an expectorant in cough mixtures, with good results, but its emetic influence should not be induced. One one-hundredth of a grain, repeated every two hours, will be sufficiently large dosage. It produces a

watery secretion of mucus, which is often undesirable.

It should be used only with adults, as stated, as children are too susceptible to its influence. Kinnett has used it in pain from spasms of the pylorus, and others mention its influence for **spasmodic pain** in severe, acute stomach disorder in sthenic cases.

Dr. Dice believes apomorphine given in small doses frequently repeated in the initial stage of appendicitis will prevent the development of many cases of this disease. He dissolves also a dram of sulphate magnesium in four ounces of water and gives a teaspoonful every two hours with it.

Apomorphine in doses of One-thirtieth of a grain or less, frequently repeated controls some very severe cases of vomiting.

In the treatment of alcoholism, this agent is given in sufficient quantity to produce mild nausea; then one-thirtieth of a grain of strychnine or other indicated stimulant is given for its influence upon the nervous system at the same time.

## **CODEINE.**

**Occurrence**—An alkaloid of *opium* closely related to morphine, often, if not carefully prepared, containing a certain proportion of morphine.

**Character**—White octahedral crystals, bitter, odorless, permanent, soluble in eighty parts of water and in three parts of alcohol. The dose of codeine is from one-fourth to two grains.

**Physiological Action**—Its influence is that of an anodyne and antispasmodic, more active as an antispasmodic than morphine and much less narcotic. It controls pain without checking secretion to as great an extent as the other alkaloids of *opium*.

**Therapy**—It has a more marked influence upon **pain** in the **abdomen** and in the **pelvic organs**. Spasms, neuralgia and other painful conditions in these parts are well controlled by codeine. **Cramp colic** and spasmodic dysmenorrhea yield readily to its influence. It is advised in **diabetes mellitus** to control the excretion of sugar. It has been given in doses of fifteen or twenty grains daily for this purpose, in some cases with permanent results.

Codeine has a marked influence upon **spasmodic cough**. It is often given to soothe irritable conditions of the air passages and to control persistent annoying and exhausting cough.

### **Physiological Action of Opium and Morphine.**

The action of **opium**, and of **morphine** and its narcotic salts, is much the same. *Opium* is stimulant and narcotic, according to the dose and susceptibility of the patient. Infants and old people are easily poisoned by the drug, while those addicted to alcohol can take very large doses without any bad effects; and those accustomed to the drug can take a poisonous dose with impunity.

In the healthy adult a moderate dose of *opium* stimulates all the nervous functions of the body, raises the spirits and excites intellectual action; this gives way to a condition of placidity, freedom from care, and a state of quiet enjoyment. In an hour or less, consciousness is lost in sleep, which may continue for eight hours or longer. On waking there is evidence of disturbance of the functions of the organism, such as nausea, vomiting, headache, constipation and diminished secretion, except that of the skin.

In a dose sufficient to cause death the period of excitement is short, while the strength of the system rapidly gives way to drowsiness and apoplectic sleep. There is stertorous breathing, dusky countenance, slow pulse, nearly total insensibility, only responding slightly to violent agitation, with confusion of the mind, and an inclination to continue in a comatose state with increasing debility. After a few hours, six to twelve, according to the dose and the resisting power of the patient, the face becomes pale, the pulse from being full and strong becomes weak and thready, with cold extremities, a cool and clammy skin, a slow gasping respiration; a condition from which it is impossible to rouse the patient and death soon follows.

The pulse is first slow from stimulation of the vasomotor nerve centers, and becomes rapid as these become paralyzed. The pupil is first contracted by stimulation of the oculo-motor nerves, and dilates as death approaches and these become paralyzed. Death results from paralysis of respiration.

With some individuals there appears to be an inherent and usually

permanent idiosyncrasy against the action of *opium* and morphine. An exceedingly minute dose with such, will produce unpleasant symptoms. These are nausea or violent vomiting, spasm of the stomach and loss of appetite, obstinate constipation or abdominal pain. In others there is nervous excitement, restlessness, headache, tremors, general distress and an increase of pain. With others it produces extreme wakefulness instead of restful sleep. In some there is diarrhea instead of constipation. Given under the conditions we have named as contraindications, it will often produce these phenomena; where there is an absence of idiosyncrasy, and where given under the proper conditions, the effects would be desirable.

Itching of the skin, inducing an apparent miliary eruption, is one of the unpleasant effects of its use, which, like any one of the others, may be always greatly exaggerated in certain individuals.

By using water as a solvent, or combining *opium* with ipecac or camphor, or in some cases with the bromides, these unpleasant effects can, in great measure, be overcome.

Its application to open wounds in childhood has produced marked narcotic effects. It has poisoned infants while nursing, the mother either taking it as medicine or habitually.

**Caution**—All of the effects of these agents are especially marked in infants and early childhood. The nervous system is profoundly impressed by them, and the dose, if given at all to very young babes, should be infinitesimal.

Its administration can be avoided in nearly all cases with these little patients, as we have access to many agents which, while not working actively in adults, produce most satisfactorily soothing, anodyne or pain-relieving properties in childhood.

**Opium addiction** is acquired by continued use of the agent, and is debasing and deadly in its effects.

Another serious objection to its administration in large doses often is that it conceals or obscures the actual condition, the diagnostic symptoms or the specific disease indications, and permits disease to advance to formidable proportions before its real character is known. This is true of appendicitis and other purulent inflammatory conditions.

This agent is so convenient and produces such immediate effects that it is often used by the indolent, careless physician, when other agents would produce better after results, and would more speedily promote a permanent cure. It is, therefore, proper to *caution* the young physician, against depending, upon it to too great an extent, and to urge him to study well all other agents acting synergistically, so that when his knowledge of the other agents permits him to choose between them he will prefer them. He may thus be able to select an agent with a single direct influence, where, with the administration of this, he has undesirable side influences to overcome in addition to the treatment of the other conditions.

**Administration**—*Opium* may be administered by the mouth, by the rectum or vagina, by the hypodermic injection of its alkaloids, by application to a portion of the surface of the body after removal of the cuticle, by inhalation or by insufflation.

Where there is a temporarily apparent contraindication for its use, the aqueous extract or the deodorized tincture (aqueous) or other aqueous preparations, may be used, as water does not dissolve the narcotine, which is believed to be the irritating and depressing principle of the alkaloids.

Or it may be given in conjunction with some agent which will overcome the antagonizing conditions. The acidity of the stomach may be neutralized by an agreeable alkaline aperient. The inactive secretions may be partially reestablished by *pilocarpine* or *jaborandi*, or the bromides may be given in conjunction to soothe the nervous system, or *ergot* to unload the brain of an excess of blood.

The hypodermic use of morphine is demanded and is justifiable where great pain is present. In these cases the size of the dose must be determined by the circumstances. Its influence is prompt and satisfactory.

This method is preferable because the chemical influences of the gastric secretions upon the salt are avoided.

Veterinarians find it necessary to always administer morphine in this manner, as often no desirable effects are produced if brought in contact with the stomach and intestinal secretions.

**Specific Symptomatology**—When *opium* is given carelessly or promiscuously, unfavorable results may occur. The conditions under which the administration of *opium* or its narcotic salts are admissible are as follows: There is pain without cerebral engorgement; there is an absence of flushed face, but not pallor; there is a relaxed, cool and perhaps moist skin; the tongue is moist and the pupils are not contracted.

Extreme wakefulness or restlessness, painful, spasmodic conditions, excessive passive discharges of whatever character and local inflammations with the above conditions all indicate the use of the agent.

**Pain** is the great and primary indication for *opium*. The agent can often be substituted in mild cases, and with children, and the causes of pain can often be removed by other agents; but severe, persistent, racking pain has no other antidote except anesthesia.

**Contra-indications**—In its primary influence it is a brain and nerve stimulant. It, is, therefore, contra-indicated where there is an irritated and overstimulated nervous system, with flushed face, bright eyes with contracted pupils, dry, hot skin, dry, coated tongue and inactivity of the excretory functions. Administered under these circumstances, it will increase the restlessness and induce general distress and painful wakefulness.

**Therapy**—In sudden acute pain, in pain from wounds or injury, or from burns, the contra-indications are seldom present, and morphine can be administered usually hypodermically.

Pain, like a persistent high temperature; will in time produce serious impressions upon the system which, in themselves, will be hard to overcome. When pain is not extreme equally good results, however, can be obtained in many cases from smaller doses of this agent, as from larger ones, with much less impression upon excretion.

In the successful and highly satisfactory treatment of **peritonitis**, **appendicitis**, **pleuritis**, **ovaritis** or **metritis**, this author early adopted the uniform method of giving the indicated remedies as indicated, and for **general or local soreness** or **tenderness** increased on pressure or on movement of the bed or clothes, he frequently gives from two to five drops of the deodorized tincture of *opium* every two hours; seldom more. This acts in harmony with bryonia, which is specifically indicated, especially



if there be occasional quick, sharp darting or shooting pains, with the soreness. Heat may be applied. In from six to twelve hours the distress is relieved, and in twenty-four hours the patient is in every way improved. This is accomplished without producing dullness, drowsiness or undue sleep, or without locking up the secretions and excretions, in fact, without exhibiting but few if any of the physiological influences of the remedy.

Where distress or wakefulness is present, and of such a character that morphia is directly indicated, a small dose often repeated in the stomach will sometimes do better than large doses. In these cases, if half a grain be dissolved in two ounces of water, and a teaspoonful be given every fifteen minutes, the patient will soon become soothed and quiet and will sleep naturally without knowing what has induced it; a much smaller quantity than is usually given, being found necessary. In gastric hyperacidity add a grain or two of sodium bicarbonate to each dose.

It reduces congestion and engorgement of serous membranes most rapidly, and is thus specific in the above-named inflammatory conditions, when small, sharp, stabbing pains and diffused tenderness are the leading symptoms.

It has an especial action on mucous surfaces. Its influence tends to reduce excessive activity or hyper-secretion. It is for this latter effect that it is useful in **catarrhs** of all characters, in **diarrheas** and excessive activity of all secreting organs.

It controls irritation of the peripheral nerves in the intestinal canal, and thus arrests **diarrhea** and controls undue peristaltic action, which in these cases is often necessary. In **surgical diseases** of the intestinal canal and after operations this effect is quickly and essentially obtained.

**Opium** is a desirable **diaphoretic**. It promotes excretion from the skin to a marked degree, exercising this function often, while it locks up the intestinal and renal secretions. It is often given in combination with a relaxant or an emetic for this purpose, and is officinal in combination with *camphor* and *ippecac*, as **Dover's powder**. It is or it may be combined with powdered *asclepias tuberosa* with happy results.

It is common practice to use *opium* or morphia in solution for **eye washes**—collyria. It is serviceable in many cases.

*Opium* and its alkaloids are powerful **antispasmodics**, and are of general use in local spasm and in convulsion. Specifically, it is useful in colic from **biliary** or **renal calculi**, in **uterine** and **ovarian colic** and in the **pains of labor**, properly adapted; also in **lumbago**, **sciatica**, **angina pectoris**, gastrodynia, pleurodynia and other forms of neuralgia.

In **puerperal convulsions** morphine, hypodermically, was by some considered a most superior agent, although those familiar with *veratrum* prefer the latter. The dose must be large and must be repeated if needed. It is now seldom relied upon in this serious condition. It locks the secretions preventing elimination, obscures actual conditions and encourages stasis.

Many physicians use *opium* to control **passive hemorrhage**, hemorrhages from the kidneys and womb, from the lungs and bronchi, and from the stomach, and from the bowels in typhoid.

It may, however, usually be dispensed with in these cases, as it is not desirable to lock up the natural secretions of these organs, a common result from the use of this agent.

It was advised by Pavy as an important agent in the treatment of **diabetes**, to control all unpleasant conditions, especially the elimination of sugar and the extreme thirst. Its influence is not permanent, and it does not cure.

It is used also in **spermatorrhea**, and will temporarily reduce sexual erethrysin and unload the organs of blood and restrain abnormal losses and discharges, but it is not usually curative and cannot be persisted in without injury.

For **gonorrhoeal** injections and as bladder washes and in leucorrhoea, it is incorporated in liniments and is used as a cataphor.

In the form also of **suppositoria**, introduced into the rectum or vagina, it is useful for painful conditions in the rectum and lower bowel, and in painful pelvic disorders.

It is also applicable in this manner to **painful kidney** and certain bladder troubles, in stone and gravel, and in obstinate vomiting.

Immediate relief from the tenesmus of **dysentery** is accomplished by the

injection of a few drops of a liquid extract of *opium* in two ounces of a solution of starch, following the bowel movement.

In China, India, Persia and Turkey, in Mohammedan and Hindoo countries, where their religion prohibits the use of alcoholic intoxicants, *opium* was at one time smoked more generally than our own people use tobacco and alcohol. Its effects are fearful. To this may doubtless be ascribed much of the intellectual inactivity, the moral debasement and the lack of advancement of the civilization of these countries.

**Toxicity**—*Opium* has been used as much if not more than any other agent for suicidal or homicidal purposes. It is certainly a desirable agent for suicide if one desires a comfortable and painless death. It is also acceptable when euthanasia is desired.

**Antidotes**—It is antidoted by extreme heat, physical activity, increased nerve action and stimulation. Active mechanical emetics or the stomach pump should be used to evacuate the stomach. These are *mustard* in warm water, *ipecac*, *lobelia* in single full doses, or sulphate of zinc.

The direct antagonists are atropia in small doses hypodermically in the early stages of its toxication, strong coffee, or caffeine hypodermically in large doses—two to five grains, strychnine hypodermically and nitroglycerine, alcohol, ammonium and *digitalis*. Potassium permanganate will neutralize the poisonous properties of morphine. The patient is kept moving with flagellation and electricity and in extreme cases artificial respiration.

## **PAREIRA.**

## ***Pareira brava.***

Synonyms—Pareira Root, Pareira Brava.

### **CONSTITUENTS—**

Starch, gum, tannin, and a very small quantity of an alkaloid, which was first obtained in 1838, by Wiggers. Subsequently an alkaloid has been obtained from the root which is thought to be identical with beberine of the nectandra. This has been called Pellosine.

### **PREPARATIONS—**

The remedy is used in **infusion**; dose, from two to four drams.

The **tincture** of the bark and the **fluid extract**. The dose of the tincture is from one to ten drops.

**Specific Symptomatology**—This remedy is of value in the treatment of chronic diseases of the kidneys or bladder, where the urine is scanty, and contains a large quantity of the earthy salts, or urates. Where with these irritating substances there is ulceration of the kidneys or bladder.

Therapy—Irritation, frequent desire to urinate, and pain in the organs during urination are relieved by this remedy. It is thought to be useful, especially in chronic inflammations of the urinary passages.

**Pyelitis, pyelonephritis, and cystitis**, with large secretion of pus and mucus are benefited by it. It should be used in mild infusion, in the treatment of **phosphaturia**, or the condition sometimes known as **phosphatic diabetes**. It is a good auxiliary remedy in the treatment of all forms of **lithemia**.

## **PASSIFLORA.**

## ***Passiflora incarnata.***

Synonym—Passion Flower.

### **PREPARATION—**

**Extractum Passiflorae Fluidum**, Fluid Extract of Passiflora. Dose, from ten minims to one dram.

**Specific Passiflora**. Dose, from one to fifteen minims.

**Physiological Action**—Ott reports a series of experiments to determine the physiological action of *passiflora incarnata*. As a result he concludes that the agent exercises a depressing influence upon the reflex activity of the spinal cord. In acute mania it arrests the exaggerated activity of the cortex. It temporarily reduces the pulse and arterial tension, the latter apparently being due to an action upon the vasomotor center of the medulla oblongata. It stimulates the respiration and can therefore be given in large doses without danger.

*Passiflora* given in excessive doses causes spasms and paralysis in animals. It acts as a narcotic and antispasmodic in man when given in moderate doses. No extended investigation concerning its physiological action has yet been made.

Broadnax said that it is used by negroes in an application of the bruised leaves as a poultice to the head, for headaches; also to bruises to relieve pain. A decoction is used in teaspoon and tablespoonful doses in various

aches and pains. Old rheumatics use poultices made from a strong decoction with cloths wrung out and bound tightly over the swollen joints. His attention was called to it by the peculiar odor of a mess of the green bruised leaves, bound to an old woman's abdomen. By this he learned of its use and used it for twenty-five years quite steadily.

It is as yet difficult to explain the fact that in some cases this agent is prompt, efficient and highly satisfactory, while in others the same preparation is inactive. This fact has created a wide difference of opinion between observers as to its usefulness.

**Specific Symptomatology**—Wakefulness, disturbed sleep from mental worry, and exhaustion from cerebral fulness and from excitement, especially with feebleness. Anemic patients are relieved by it, also the wakefulness of infants and the aged. It is not usually efficient if the wakefulness is caused by pain, nor when the patient is in full strength.

Nervous excitement, and irritation with muscular twitchings— evidences of approaching convulsions in childhood—with marked cerebral fulness are indications, and it is given at any time preceding or during convulsive paroxysms if it can be swallowed. It is indicated in **convulsions** of any character.

**Therapy**—In the **convulsions of childhood** it is a most reliable agent. The writer has given it at the onset of the spasm when the approaching symptoms were unmistakable, and has had the satisfaction of seeing all the symptoms disappear so promptly, that confidence has become established. It has controlled **severe spasms** while the irritating causes yet remained, and after all antispasmodics except anesthesia have been ineffectual. It can be relied upon to hold the spasms in check while the causes are being removed, and reduces their force and character. In **epilepsy** it lessens the number of the paroxysms, but to ward off the paroxysms the attack must be anticipated by a full dose of the remedy. When its approach is unannounced, the full effects of the agent are not obtained.

*Passiflora* has hypnotic properties which differ from other agents of this class in that the sleep produced is normal in all its characteristics. The patient goes to sleep naturally, can be awakened as usual at any time, to fall into a quiet, natural slumber. He awakens at the usual time rested and refreshed, with no disturbance of the cerebral functions, no languor, dulness or other disagreeable sensations.

Dr. Steele of Missouri uses *passiflora* in **chorea**. In persistent cases he combines it with *cimicifuga* with satisfactory results.

If given in doses sufficiently large, it may be relied upon to assist in the relaxation of the tonic spasm of meningitis, and local tetanic spasm. It has relieved a few cases of **general tetanus**. It has cured tetanus in horses. It may be given as an antidote to the spasms of strychnine poisoning, but it must be given in doses of from one-fourth to one-half ounce and frequently repeated. As an anti-spasmodic in cases where there is engorgement of the nerve centers, it is applicable. It has relieved tonic, and clonic spasms, and the spasms of sthenic as well as asthenic conditions.

In the treatment of **hysteria** the agent should be persisted in. It may be given in conjunction with *cimicifuga*, *gelsemium* and *pulsatilla*, and if there be pain, due to menstrual or other disorders, it may be combined with *cannabis indica*, or *Jamaica dogwood*, in appropriate and properly regulated doses.

Dr. Roth believes that *passiflora* is a direct stomach sedative. A number of physicians have confirmed this opinion. One patient who had been on a **spree** for days suffering from **persistent hiccough**, took a teaspoonful of the tincture every hour. This gave him freedom from the hiccough and in a short time a quiet, natural, continued sleep, waking in the morning in nearly a normal condition.

Dr. Freeman gives a combination of *passiflora* four drams, *hyoscyamus* one-half dram, *cannabis indica* one-half dram in a four ounce mixture, and to patients addicted to **drug habits**, who cannot sleep, he gives from one to two teaspoonfuls of this at early bedtime, repeated if necessary.

One of the attending physicians in the tuberculosis wards of Cook County Hospital told this author that *passiflora* was his reliance in the **sleeplessness of tuberculosis**, especially controlling the **cough**. He would add two drams of *passiflora* to three ounces of water, and give a dram every half hour, the latter part of the day or early evening and during the night, and very seldom failed to secure satisfactory results. Other forms of **cough** can be relieved by it.

The agent is not known to possess injurious or poisonous properties. It has been used in erysipelas both externally and internally, and in acute

inflammatory skin disorders with nervous elements and nervous complications.

## **GUARANA.**

## ***Paullinia sorbilis.***

Synonym—Brazilian Cocoa.

### **PREPARATIONS—**

**Extractum Guaranae Fluidum.** Fluid Extract Guarana. Dose, five to thirty minims.

**Extractum Guaranae-** Extract of Guarana. Dose, three to ten grains.

**Specific Guarana,** from one to fifteen minims.

### **CONSTITUENTS—**

Caffeine, Tannin, Volatile Oil, Saponin, Resin.

**Physiological Action—**In its influence it is a tonic and mild nerve stimulant and sedative. Gaurelle, who first called attention to it, mentioned it as a most useful tonic in protracted convalescence. He had great confidence in it in persistent diarrheas, especially those of phthisis. Others have used it successfully in chronic diarrheas.

Therapy-The fluid extract of this agent, given in doses of from ten to thirty minims, has been used specifically in the treatment of **headaches**, other than those due to actual disease of the stomach, as from catarrh or ulceration or cancer. In many forms of headache, and especially the form due to functional gastric derangement, known as “sick headache” it is certainly a serviceable agent.

## **PENTHORUM.**

## ***Penthorum sedoides.***

Synonym—Virginia Stonecrop.

### **PREPARATIONS—**

**Specific Medicine Penthorum.** Dose, from one to twenty minims.

**Specific Symptomatology—**It is suggested in cases of chronic disease of the fauces, larynx, or pharynx, where the mucous membranes are relaxed and of purple color, irritable, sore and dry. This condition sometimes, resists all ordinary throat remedies. Five drops of specific *penthorum* every two hours with a gargle of *capsicum*, quite strong, used three times

daily, will quickly relieve the troublesome condition. The gargle alone is of benefit.

**Therapy**—It influences the functional activity of the stomach through the direct action on the glandular structure of the mucous membranes. It will impart tone to the stomach and increase the appetite and power of the digestion. It regulates the function also of the entire intestinal tract in a mild, but sometimes very desirable manner.

The remedy has been employed in the treatment of **cholera infantum**, where a mild tonic astringent was needed, and in many forms of **diarrhea**. In **piles** it may be given in conjunction with *collinsonia* or *hamamelis*. It has been lauded in the treatment of **intestinal dyspepsia**, and other forms of atonic indigestion, especially where nervous exhaustion is present. Scudder remarked that mucous membranes in any locality, which had suffered from acute inflammation, were markedly susceptible to the action of this remedy in its direct restorative influence. It will remove irritation, restore the functional activities of the glands, and conduce to the return of the normal condition. He gave it also for chronic **catarrh**, **pharyngitis**, **bronchitis**, vaginitis and other catarrhal disorders. The fluid extract of *penthorum* may be given in doses of from one-fourth to one dram, every three hours.

Additional specific symptoms, are catarrhal inflammation, with profuse secretion, catarrhal gastritis, colitis, or iliocolitis, with mucous discharges and a spongy condition of the gums.

## **PEONY. *Peonia officinalis***

Synonym—Piney.

### **PREPARATIONS—**

The **tincture**. Dose, from one to thirty minims.

**Therapy**—The agent is an antispasmodic. Through a mild but persistent tonic influence, it is **soothing** to the **nervoussystem** of debilitated patient and of the aged. It is curative wherever there is irregular muscular action. It is useful in **chorea**, either alone or combined with other positively indicated remedies. It has been given with good results in **convulsions** of **childhood**, and other convulsive phenomena, and its persistent use in **epilepsy** has resulted satisfactorily in some cases. It is not a powerful remedy, but it is one that has a steady and persistent



influence, and will therefore be found of use as auxiliary to the action of positive but temporary remedies. It has been given in **whooping cough**, and will probably be found valuable in the treatment of other **spasmodic coughs**.

The juice has been expressed from the recent root, and has been administered in doses of from one to two drams. The powdered root in dram doses has been given. Thirty grains of the powdered seeds have been administered to overcome night **terrors** and **nightmare** in aged people and people afflicted with these forms of chronic disease, accompanied with dropsy. It relieves all forms of **nervous irritation**, and is beneficial in **reflex irritability**.

## **BOLDUS.** *Peumus boldus.*

Synonyms—Boldo. Boldu (Boldoa Fragrans, Gay).

### **CONSTITUENTS—**

The plant contains an essential oil, a volatile oil, and an alkaloid, boldine. A narcotic alkaloid called boldoglucin.

### **PREPARATIONS—**

A **tincture** is prepared. Dose, five to twenty drops.

**Boldine** is given in doses of from one to five grains.

The **essential oil** is given in capsules in three to five drops.

**Fluid extract**, from ten to thirty minims.

**Physiological Action**—Dr. Holmes, from Florida, has written a very excellent article for the National Medical Association, in which he says the agent, in its influence upon the liver and kidneys, relieves **toxemia**, or **autoinfection**, which has resulted from retention of the bile. It favors the resumption of functional activity of the liver, when stagnant, without increasing the peristaltic action of the bowels, as most liver remedies do, thus acting kindly upon the general intestinal canal. At the same time, it increases the functional power of the kidneys, so that their influence in carrying off morbid material, the products of retrograde metamorphosis, greatly facilitates the progress of recovery.

**Therapy**—The agent has not been in general use. The physicians of the south extol its virtues in the treatment of **liver diseases**. It is of excellent service in the treatment of chronic intestinal trouble where there is congestion and general inactivity of the liver. Present with this condition

there may be painful digestion resulting from gastric debility, where there is also anemia with a general sallowness of the skin.

In the first case in which Dr. Holmes used the remedy, there was pain and tenderness over the right hypochondriac region. The skin was yellow, urine scanty, dark colored, almost coffee-ground color, the pain extended into the epigastric region. The tongue was heavily coated in the center, the tip and edges red, the pulse was between ninety and a hundred, and temperature 100. The patient dull, sleepy, indisposed to exercise, and the pain resembled that of gall stone. Pain, nausea and vomiting were present.

*Chionanthus, chelidonium, iris, podophyllum, leptandra, euonymus*, were all used and failed. The symptoms increased till the patient had a pulse of one hundred and thirty and a temperature of one hundred and five, and was reduced to a skeleton. At the suggestion of a man from Chile, S. A., he gave this remedy in sixty-drop doses of the fluid extract, every four hours. The effect of the remedy was immediate, and the cure perfect.

The doctor reports four or five other cases where these symptoms were present with some variation, all cured by this remedy promptly, after our usual specifics had failed. The agent certainly demands careful investigation.

## **PHYSOSTIGMA.                      *Physostigma venenosum***

Synonyms—Calabar bean, Ordeal bean, Chop nut.

### **CONSTITUENTS—**

Physostigmine or Eserine, Calabarine, Eseridine, Phytosterin.

### **PREPARATIONS—**

**Extractum Physostigmatis**, Extract of Physostigma. Dose, from one-twentieth to one-eighth of a grain.

**Tinctura Physostigmatis**, Tincture of Physostigma. Dose, from three to ten minims.

**Specific Medicine Physostigma**. Dose, from one-fourth of a drop to five drops. Prescribed, from eight drops to two and one-half drams, in four ounces of water. A teaspoonful every two to four hours,

**Physostigmine or Eserine**—A crystalline solid, white or pinkish colored,

readily soluble in alcohol, sparingly soluble in water. Dose,  $\frac{1}{150}$  to  $\frac{1}{30}$  of a grain.

**Physostigmine Sulphate**—A crystalline powder, whitish or yellowish white, changing on exposure to a pink or reddish color, bitter, odorless, deliquescent; freely soluble in alcohol and water. Kept for preservation in amber-colored vials. Dose,  $\frac{1}{150}$  to  $\frac{1}{30}$  of a grain.

Solutions of one grain of physostigmine or its sulphate to the ounce of distilled water is used in the eye, one drop three or four times daily.

**Physiological Action**—The first effect of *calabar bean* upon internal administration in overdoses is local—a sense of burning and irritation in the stomach, with nausea, vomiting and purging. The salivary, gastric and intestinal secretions are all greatly increased. It stimulates unstriated muscular fiber, producing in the intestinal canal increased peristalsis. There is inactivity, prostration, cold, pallid skin and muscular incapacity.

The evidences of the action of this agent upon the nervous system are not marked. No pain is produced and the consciousness of the patient is usually retained. Probably, from deficient oxygenation of the blood, there is vertigo, which may finally induce narcosis. There are ultimate paralysis and temporary tetanic convulsions. There is abolition of motor reflex.

The arterial tension is at first lowered, then increased, the heart is slowed. There is a reduction in the number and force of the pulsations. The influence seems to be entirely upon the muscles of the heart, through overstimulation of the cardiac ganglia, and not through the central nervous system. The heart finally loses its contractility, is flabby, and fails in diastole. The respiration becomes slower, is shallow and feeble, and finally ceases. The heart continues to pulsate with increasing feebleness for some little time after respiration has ceased. The blood is loaded with carbonic acid gas, and the corpuscles are altered in their character.

The general muscular relaxation from this agent is most marked. Small, long continued doses induce feebleness and indisposition to muscular exertion. By full doses, tremors of the voluntary muscles are induced, and finally complete muscular paralysis. The muscular structure of the

walls of the intestines is sometimes affected by tetanic spasm, followed by complete relaxation and paralysis.

The mind may continue clear. The influence, at first stimulant, is finally motor depressant, abolition of reflexes appears, with ultimate paralysis of the motor nerves, more slowly occurring.

It is quickly absorbed and readily eliminated through all the excretories.

**Upon the eye**, when locally applied, this agent acts first by contracting the pupil. It afterward decreases intraocular tension, and produces spasm of accommodation and myopia. There is often pain of a severe contractile character produced in the eyeball.

**Specific Symptomatology**—The remedy is indicated when there is a feeble pulse, tremulous, perhaps slightly irregular, cool extremities and cool surface, breathing more or less difficult, with a sense of constriction. These symptoms are found present in some cases of **cerebro-spinal meningitis**. Administered in minute doses in this disease, it will be found to occupy a place between *belladonna* and *gelsemium*. It may be given in conjunction with *echinacea* with very good results. It overcomes the tendency to mental dullness and stupor and wards off impending coma. The agent is useful where there is torpor, inactivity, atonicity of the intestinal canal, and of the organs of digestion and appropriation, or where from lack of nerve force there is deficient secretion, dryness of the mucous membranes, deficient glandular secretions with dry and hardened feces.

It increases the contractility of the muscles of the bladder walls, and of the uterus.

Although a motor depressant in large doses, in small medicinal doses it has a contrary influence.

**Therapy**—The agent may be given internally to allay the tension induced by extreme nervous irritation. Convulsive disorders from irritation are allayed by it, but it is not in general use for this purpose.

It has been used in **tetanus**, in **epilepsy** and in convulsions from all causes, also in **locomotor ataxia**, in **chorea** and in **progressive paralysis** of the insane. Its influence has not been such as to justify dependence

upon it in these cases.

It stimulates the respiratory function and heart's action where there is great depression with **difficult breathing**, with a sense of compression or constriction of the chest, with soft, feeble pulse, cool, moist skin, and usually dilated pupils. It is the remedy for dyspnea under such circumstances. It is also advantageous where the **dyspnea** is **caused** by a clogging up of the bronchi and air cells without power to expel the thick tenacious mucus. It will liquefy the secretion and increase the power to expel it.

In **emphysema** and in **asthma** with great muscular relaxation, in **bronchitis** with dilatation, it is useful. It restores tone in phthisis and overcomes night sweats of that disorder.

It may be of advantage in dilatation of the **stomach**, and in atony and extreme inactivity of the intestinal muscular structure. In **intestinal catarrh** from this cause it is of much service. It is also valuable in **catarrh** of the mucous linings of the **kidneys** and **bladder**, and in extreme atony, relaxation and plethora of the abdominal structures. It will assist in overcoming **chronic constipation** and a tendency to **flatulence** in atonic cases.

It is useful in tympanites and **flatulence** present during the **menopause**, where there is atonicity of the intestinal walls and constipation. In the condition known as **phantom tumor** it has been used advantageously.

Its chief influence is upon the eye. When **mydriasis** has been induced by atropine or other agent, a solution of the sulphate of eserine will quickly restore the normal condition. Any **adhesions** of the **iris** which may have occurred as the result of inflammation may be broken up by this agent. It is used to reduce intraocular tension, as has been stated, and to increase the power of the muscles of accommodation, being valuable in paralysis of these muscles.

It is useful in **conjunctival inflammations** where **perforating ulcer** threatens to permit prolapse of the iris. It is especially advised when **ulceration** without determination of blood-indolent in character, nonvascularized-is present. It is useful in intermittent **strabismus**, in **glaucoma**, **asthenopia**, in **photophobia** and in some cases of neuralgia of the eyeball. After injury to the eyeball many conditions may occur which will be promptly relieved by the use of this agent.

Edison of Indiana wrote some years ago an excellent article on the treatment of meningitis, in which he lays great stress upon the action of this remedy. Whether the difficulty be spinal or cerebro-spinal, whether it be acute or chronic in character, he claims to obtain benefit in all cases, and cure in the larger percentage of cases, by the direct influence of *calabar bean*, especially if there be an underlying primary congestion, plainly apparent. He uses in conjunction, however, counter irritation in all cases.

To an infant he gives of a mixture of from eight to ten drops of the tincture in four ounces, a teaspoonful every half hour. To an adult he would administer two drops every fifteen minutes, until spasms or marked symptoms are under control, then he would give the dose every two or three hours. He lays great stress upon small doses frequently and persistently repeated. I believe it more useful if given in careful combination with *gelsemium*.

The remedy is useful in the treatment of **spinal irritation**, in one or two drop doses, frequently administered. The doctor has depended upon this remedy for twenty-five years, and the results have established a fixed confidence in its influence.

**Co-operatives**—It may be combined with *xanthoxylum*, strychnine, *nux vomica* or *capsicum* with advantage. *Belladonna* will facilitate its action, also, in its influence upon gastrointestinal structures.

## **PHYTOLACCA.                      *Phytolacca americana***

Synonym—*Phytolacca decandra*, Poke.

### **CONSTITUENTS—**

Phytolaccic acid, phytolaccine, calcium malate, resin, starch, wax, gum, tannin, mucilage. The ashes contain over fifty per cent of caustic potassa.

### **PREPARATIONS—**

**Extractum Phytolaccae Radicis Fluidum.** Fluid Extract of Phytolacca Root. Dose, from five to thirty minims.

**Unguentum Phytolaccae,** Ointment of Phytolacca.

**Specific Phytolacca.** Dose, from one to ten minims.

**Physiological Action**—Though the young shoots of *Phytolacca* are used as greens the mature plant is poisonous when taken in large doses. Death has followed an overdose (one-half ounce) of the berries or root, preceded by excessive vomiting and purging drowsiness, prickling and tingling over the whole body; vertigo, dimness of vision, cold skin, feeble pulse, great prostration, convulsions and coma.

While it is specific in its influence upon all glandular structures, of whatever character, it also is a blood-making remedy of great power, and it acts directly also upon the skin. It influences the mammary glands and the testicles directly. The remedy acts also upon the spinal cord. It inhibits the influence of the medulla, to final paralysis. It slows the action of the heart, reduces the force of the pulse, and lessens respiratory movements. In poisonous doses it will induce convulsions of a tetanic character. It is a drastic cathartic and an emetic producing nausea of an extreme character. Its influence upon the bowels is greatly prolonged, and very irritating. It causes great pain in the bowels, which is slow of relief. It reduces muscular power and coordination. It produces dimness of vision, vertigo and drowsiness, prolonged in some cases to coma.

**Specific Symptomatology**—The most direct action of this agent is in inflammation of glandular structures, especially of the **lymphatic glands**. Pains of a rheumatic character from deficient catabolism are relieved by it. It is directly indicated in irritation, inflammation and ulceration of mucous membranes in rheumatic subjects, sanious ulcers, scabies, tinea capitis, sycosis, psoriasis, favus, *noli me tangere*, and all skin diseases. It is especially valuable in the squamous variety of skin diseases.

**Therapy**—This agent must now have especial attention in its influence in the treatment of acute **inflammations of the throat**. It makes but little difference what forms of throat disease we have, from the simplest forms of pharyngitis, through all the variations of tonsillitis, to the extreme **forms of diphtheria**, this remedy may be given in conjunction with other indicated agents. But few of our physicians neglect its administration in these cases, and they are unitedly profuse in their praises of its influence. If there be an infection of the local glands of the neck, from the throat disease, the agent should be applied externally, as well as administered internally.

In the treatment of **goitre** there is a consensus of opinion concerning the value of this remedy, but it is almost universally administered in these

cases, with other more direct remedies. Dr. J. V. Stevens is enthusiastic in his opinion that **adenitis** needs no other remedy than *phytolacca americana*. Whatever the cause of the disease or of however long standing, he saturates the system with this remedy, and persists in it, applies it externally and claims to cure his cases. He has used it for many years with success. Others combine other active alteratives as general conditions demand.

Too much cannot be said of its very positive and invariable influence in the treatment of acute **inflammations** of the **breast** during or preceding **lactation**. It should be given every two hours at least in doses of perhaps ten drops in extreme cases, or five drops in the incipiency of the disease, or mild cases. Conjoined with *aconite* and applied also externally, we, will find in many cases no lisp for any other remedy. I have, however, found my results to be more quickly obtained when an active eliminant is given in conjunction with the remedy in mastitis. Two or three fifteen-grain doses of the acetate of potassium will be found efficient.

The writer has, through a long experience, gotten into the habit of adding this remedy to alterative compounds. This is especially true of those prescribed for children's glandular and skin disorders. It is an efficacious remedy in any of the forms of skin disease, common to childhood. Given in the incipiency of eczema and in some forms of chronic eczema, especially that of a dry character, where there are cracks or fissures in the skin, these promptly yield to the internal administration of this remedy.

It should be administered in the treatment of **syphilitic disorders** resulting in ulceration, and in the ulcerations of the outlets of the body. In **varicose** and other long-standing **ulcers**, in **psoriasis**, **dermal abscesses**, **fissures**, **boils** and **carbuncles** it will be often found that a combination of *phytolacca*, *echinacea*, *berberis*, and *stillingia* will prove signally effective.

Ten drops of equal parts of the juice of ripe *poke berries* and alcohol may be given every thirty minutes in **membranous** and **spasmodic croup** with great success, with other remedies as indicated.

In irritation of the urinary tract, even in conditions resembling Bright's disease, with albumin, and abnormal deposits in the urine, it tends to relieve the irritation, and effect a cure.



Dr. Waska, of Chicago is a strong advocate of the use of *phytolacca* and *echinacea* in the treatment of any form of **albuminuria**. He believes with proper auxiliary treatment, these two remedies will be of great service in overcoming the excretion of albumin and in restoring a normal condition of the kidneys. Skin disease of constitutional origin, and scrofulous skin diseases, are cured by it.

Its action in relieving irritation, inflammation and ulceration of mucous membranes in all parts of the body—throat, larynx, lungs, stomach, bowels and rectum—suggests it as a remedy in inflammation of the lining membrane of the heart; and it is said to have cured cases of this kind.

In conjunctivitis, the local and internal use of the remedy is efficient; and also in the treatment of chancre and bubo.

In the treatment of conjunctivitis, a saturated tincture of the fresh root should be given in sufficient quantity to produce fullness of the temples and head, while the eyes should be bathed frequently with the decoction.

In the treatment of ulcers and ulcerating skin diseases, the local application of a concentrated preparation of the root or berries should be made, so as to exert something of a caustic effect, while full doses are given internally at the same time.

The presence in the blood of an infectious irritant, which causes rheumatic pains, as in **sciatic rheumatism**, and irritation of mucous membranes, or inflammation of the throat associated with rheumatic pains, and enlargement and ulceration of lymphatic glands from scrofula or syphilis, is an indication for the remedial action of *phytolacca*.

It has been thought to stimulate the liver, by those who hold the theory that rheumatism, peritonitis, tonsillitis, and the many diseases assigned to the uric acid diathesis depend upon abnormal protoplasmic change in the blood, as it circulates through the liver; but whether this be true or not, there is no doubt that it improves nutrition.

*Phytolacca* is somewhat narcotic, and also a nerve stimulant in moderate doses, and this will explain its action in curing rheumatism, for those who take the ground that this obscure disease is a neurosis; and also explains its action in neuralgia.

## **PILOCARPUS.**

## ***Pilocarpus jaborandi.***

Synonym—Jaborandi.

### **CONSTITUENTS—**

Pilocarpine, jaborine, volatile oil, tannic acid, volatile acid, potassium chloride.

### **PREPARATIONS—**

**Extractum Pilocarpi Fluidum.** Fluid Extract of Pilocarpus. Dose, from five to sixty minims.

**Specific Medicine Jaborandi.** Dose, from one-fourth of a minim to three minims.

**Administration—**In the administration of this agent the characteristic results may be obtained almost equally well, either from an infusion of the leaves, or from any of the preparations named. The hypodermic administration of the alkaloid pilocarpine, is preferable in many cases, especially where the promptness of its action is desired. The liquid preparations are often unacceptable to a disordered or sensitive stomach and then minute doses of the alkaloid in pellets or granules will be found a most desirable form for administration.

The action of the fluid extract or tincture of *jaborandi* and impure pilocarpine is sometimes disappointing, failing entirely to produce their characteristic influence and perhaps producing results contrary to those anticipated. This is due to the presence of the alkaloid, jaborine, which acts antagonistically to pilocarpine, having in its therapeutic influence many of the characteristics of atropine, an antagonist of pilocarpine.

The **nitrate and hydrochlorate of pilocarpine** carefully prepared are free from jaborine and are thus reliable in their action. Solutions of pilocarpine should be made fresh when needed, as the salts decompose in aqueous solution. They are not permanent but will precipitate at once in alkaline solutions.

**Physiological Action—**Near the point of the administration of a hypodermic injection of the alkaloid, a few drops of sweat appear within from four to six minutes after the injection, to be immediately followed with moisture on the forehead, neck and chest, and in quick succession the entire body is bathed with a most profuse perspiration.

It is a powerful anti-diphtheritic and sialogogue, acting profoundly as a stimulant upon the secretions of the entire glandular system. No one known remedy stimulates every secretion of the body simultaneously as profoundly as does this agent.

The depression of the agent should not be allowed to progress; after the sweating has continued a few minutes profusely, a little whisky, brandy, tincture of *ginger*, or tincture of *capsicum* should be given in hot water, and occasionally repeated while the transpiration progresses. If the heart shows the influence of the depression, a hypodermic of strychnine may be given, or a few drops of the tincture of *cactus*, *strophanthus*, *digitalis*, or *nux vomica*. If it is desirable to stop the sweating abruptly, atropine hypodermically may be resorted to.

The extreme effects of the agent need not be obtained in many cases, but owing to the susceptibility of some cases a small dose will sometimes produce extreme results. It is safe to obtain these results in extreme sthenic cases—in robust patients. The reaction will be prompt and satisfactory.

Most observers state that it is best to quench the thirst with weak coffee or milk and not with-cold water. It is undesirable that the patient swallow the saliva when the agent is administered after the bite of venomous snakes or in threatened hydrophobia or if given as an antidote to poisons.

When the agent fails to act upon the skin it often expends its force upon the salivary glands, kidneys, stomach, intestines or lungs, producing extreme secretion or excretion from these organs. In some cases this agent produces nausea, vomiting, diarrhea, contracted pupil, extreme weakness, dimness of vision, sighing respiration, palpitation and collapse; but these symptoms of alarming nervous depression rarely occur and are easily combated with atropine.

**Specific Symptomatology**—The direct indications for this agent are acute suppression of the secretions, especially of those of the skin in sthenic conditions usually with distress, elevation of temperature, sharp, hard pulse, dry skin, dry mucous membranes, constipation, and small quantity of urine with dark color and high specific gravity.

Kinnett gives the specific indications for its use, as dry hot skin, dry parched mouth, pulse full and very strong, patient restless and uneasy,

suppression of the secretions, especially of **the kidneys**, which seem to be unable to act properly. His contra-indications are feebleness, weak pulse, weak heart action, tendency to depression.

**Contra-Indication**—*Jaborandi* should be avoided in asthenic conditions, or where there is feeble or dilated heart, and used with care in old people and young children. Except in its influence on laryngeal and bronchial disorders, and in the sthenic stage of diphtheria when it loosens the membranes.

**Therapy**—At the onset of **acute** febrile and **inflammatory conditions**, especially if there be rigors, hot, full head, and a bounding, hard pulse, a foot bath of hot water and a full dose of *jaborandi* with proper supportive treatment subsequently will often end the attack abruptly. The stage following the influence of the agent if the temperature has subsided, has all the conditions in which quinine works to its best possible advantage.

Several recent writers have written enthusiastically on the action of *jaborandi* or pilocarpine in establishing a **favorable crisis** early in the severe forms of acute disease. **Pernicious malarial fever, typho-malarial fever, inflammatory rheumatism**, and other of the severer forms of inflammatory disease they claim may be aborted by the use of full doses of this remedy. Where *jaborandi* can be administered by the mouth, it is preferable, although some claim that pilocarpine hypodermically invariably produces better results.

A number advise the use of this remedy in comatose, delirious and colliquative forms of **pernicious intermittent fever**. These writers agree upon the surprising influence of the remedy, where at the onset of this disease or of other acute specific fever there is great **excitable mania**—extreme violent delirium, which in its seriousness overtops all other conditions. The above indications of Kinnett will usually be exaggerated at these times. If an eighth of a grain of pilocarpine be administered hypodermically, the delirium disappears **at once**, quiet and restfulness obtain without the occurrence of the physiological action of the remedy upon the skin or salivary glands. There is a disagreement of opinion as to its value in the treatment of convulsions. Kinnett claims that where the intestinal tract is overloaded with irritating material, it produces both emesis and active free bowel movement, at the same time stimulating the action of the kidneys and skin.

In a case of **extreme malarial poisoning**, in a strong man, the bowels had

not been moved for three days, nor the urine voided for eighteen hours. The temperature was 107 degrees, and the pulse 140, full and bounding. The skin was of a jaundiced appearance and the conjunctivae was distinctly yellow. One-half grain of pilocarpine hypodermically, caused salivation in three minutes, perspiration stood on the neck and forehead in great drops, the face and skin became extremely red at first and pale as the perspiration advanced. He immediately passed a large quantity of dark-colored, highly offensive urine. He vomited, and had a movement from the bowels, large and copious. The doctor claimed that more was accomplished by this one dose of medicine in one hour in the way of elimination, than he could have accomplished otherwise, in forty-eight hours. Vomiting from pilocarpine is not at all severe. There is no violent straining. The act is more like one of regurgitation.

This agent can be used to good advantage in **alcoholism**. Administered hypodermically, it has a prompt sobering effect. It induces sleep, from which the patient awakes rational and subdued. The transformation in the physical appearance of the patient is marked. The tense red, bloated countenance, the bleared congested eyes, the general repulsive facial aspect pass away, and the skin assumes a clean and soft appearance, the features are calm, and the eyes clear. It has been used with good advantage in the treatment of **gall stones**, one-eighth of a grain three or four times a day has relieved severe cases.

In **inflammations**, of the **lungs** or **pleura**, with exudation, it promotes resolution and quickly removes the exudate. In **bronchitis** with dry, irritable, or hoarse cough, with imperfect secretion, it acts admirably as an expectorant. It lessens the cough as well as influencing the temperature. In **laryngitis**, **tonsillitis** or **diphtheritis** it is used by many physicians as the most important factor in the treatment. It is especially indicated in **stridulous laryngitis**.

In the treatment of **epidemic influenza** it has been given in small doses with persistency. It is said to render important service in the cure by restoring secretion.

In laryngeal **diphtheria** and in **membranous croup**, given in doses of from two to five drops every two hours, in conjunction with antiseptic treatment, it increases the mucus and salivary secretions and loosens the membrane and causes its exfoliation promptly and satisfactorily. It can be relied upon if the forces of the system can be sustained and if it does not produce too great prostration. Feeble children will not do as well

under this treatment as robust and vigorous ones.

In **bronchialasthma** or in dyspnea, from acute pulmonary engorgement, it gives prompt relief.

The agent in doses of from one-half to one drop often repeated during the afternoon or evening has controlled most satisfactorily the **night sweats** of slow convalescence and of pulmonary phthisis.

Dr. Standlee gave ***jaborandi*** for stiffness of the joints, five drops with one drop of ***rhus*** in a teaspoonful of simple elixir, three times a day.

Dr. Lass gave ***jaborandi*** for pruritus as a functional affection of the skin with itching, burning and prickly sensations, especially winter itch, so-called, or frost itch with curative results.

***Jaborandi*** in diphtheria and in membranous croup must be used constantly to be appreciated, but it certainly is a very efficient agent. It removes the membrane sometimes in a few hours, and given with ***echinacea*** or inhalations of ***eucalyptus*** and turpentine in the early stages, no membrane will be formed.

The agent is a **heart sedative** of acknowledged ability and is reliable. It controls the heart's action, the pulse, and the temperature similarly to ***aconite*** or ***gelsemium***, with either of which it may be well combined and its influences heightened by the combination. In febrile conditions where nervous complications are anticipated, and where spasm has occurred, it has a sedative and direct anti-spasmodic influence, operating synergistic ally with gelsemium or the bromides.

Webster lays great stress upon the specific sedative properties of this remedy. He also believes that in certain cases it has a place distinct from that of ***aconite*** or ***veratrum***. He believes that it can be adjusted even to asthenic cases. It imparts a cooling sensation to the skin, relieves headache arising from the fever, calms nervous irritation, and soothes local inflammatory action. It dissipates the surface heat, and acts immediately upon the secretion of saliva and overcomes sordes very quickly, cleaning the mouth completely, restoring all secretions.

In inflammatory diseases of the chest he believes that it does all that asclepias does, and more. He combines it with ***echinacea*** in **erysipelas**. He believes that it relieves irritability of the heart and blood vessels, and

induces normal equilibrium. The dosage for these purposes is invariably small—not to exceed one or two minims, and frequently repeated.

The agent has been used in **hydrocephalus**, and in other effusions into the membranes of the brain or spinal cord, but there are apt to be contraindications and it must therefore be used discreetly, and combined with other agents as indicated, and the strength of the patient supported.

It is useful in all local or general **dropsies** with discriminating judgment in its administration.

In acute inflammatory **rheumatism** or in rheumatic fever it should not be neglected as few agents will take its place. A single sufficient dose of pilocarpine will often relieve the pain, at the onset, promptly. It will be indicated during the course of chronic rheumatism as its influence in eliminating urea, uric acid and other morbid products is of excellent service here. It may be given in full doses once or twice each week or oftener, in much the same manner as a Turkish bath would be administered. Its influence is much wider than any baths.

In **acute mastitis** with suppression of milk after confinement it quickly relieves congestion and restores the lacteal secretion. It is a prompt and efficient **galactagogue** at any time. Sufficient doses to induce active transpiration need not be given, but five to ten drops of the tincture four times daily for a few days will accomplish the result. If the milk is entirely suppressed it may sometimes be restored if this remedy is administered immediately. In such a case a full dose should first be given, followed subsequently by smaller doses at longer intervals.

It has been used to advantage also in acute orchitis, and it will serve a good purpose in some cases of acute **ovaritis** or **metritis**.

A writer in the Medical and Surgical Reporter says that having observed that **parturition** progresses most favorably when there is diaphoresis, he now produces that condition early by the use of **jaborandi**; he gives onethird of a teaspoonful of the green fluid extract in half a wineglass of water every half hour until perspiration occurs. The effect is a soothing one, often relieving the severity of the pains. The os rapidly dilates, the soft parts assume a more favorable condition, and the labor is soon terminated favorably. He has seen only good results from its use. Many writers agree on the action of the remedy in **rigid os uteri**, where the

pains are hard, the muscular system tense, and the skin dry.

If prostration occurs from the profusion of the perspiration the skin is thoroughly dried, the patient is given a stimulating drink and warmly covered, and there are no further unpleasant results. It does not necessarily increase the danger of post-partum hemorrhage unless the effect of the agent is severe, in which case a full dose of *ergot* at the completion of the second stage of labor or a hypodermic of strychnia will insure prompt uterine contraction.

These facts are especially true if during confinement the skin is hot and the os unyielding, rigid and painful, the pains hard and unsatisfactory, the pulse sharp and hard, and perhaps the temperature rising. A full dose of *jaborandi* will often change the entire condition, at once producing relaxation of the os, free secretion, more expulsive and less irritating pains and a general soothed and quiet condition.

Many writers confirm the value of this agent in **puerperal eclampsia**. A French authority treated ten consecutive cases with satisfactory results, with the hydrochlorate of pilocarpine. He concludes that feebleness of the pulse, as long as the convulsions reappear, is not a contra-indication to a repetition of the dose.

When permissible it should be given in a single, full, prompt dose. Its best influences are directed toward elimination of the urea, thus relieving the uremia and reducing dropsical effusions. Its anti-spasmodic influence, while not always, perhaps, to be depended upon alone, is exercised harmoniously with the indicated anti-spasmodic, whether it be *veratrum*, chloral, the bromides, morphia, *passiflora* or *gelsemium*.

In **exanthematous fevers** of all kinds *jaborandi* in small doses is the remedy *par excellence*. In robust cases, with scarlet fever, the determination to the skin and the elimination from the skin is so prompt and efficient that post-scarlatinal nephritis need not be anticipated.

Waugh is authority for the statement that the agent is efficacious in acute **asthenic erysipelas**. It may be given in twenty drop doses, every four hours, and any prostrating influences antagonized. Local applications should not be neglected, but should be selected with care, and prompt tonics and restoratives should be administered in conjunction. In asthenic cases the agent should not be unqualifiedly discarded, but it may be adapted in small doses to the case in hand.



Pilocarpine has a selective action for the skin, and is prescribed by specialists in a number of skin diseases, notably in pruritus, eczema, prurigo, and in hyperhidrosis pedum. It is given in small doses long continued.

Its continued internal use for other conditions has been known to result in an increased growth of the hair with **restoration** of the original color of **gray hair**.

Pilocarpine in the proportion of two grains to the ounce of lanoline is a common application to the scalp to restore the hair and prevent baldness. It may be combined with *cantharides*.

**Ophthalmologists** claim excellent results from its use in a number of diseases of the eye. In iritis it overcomes inflammations and removes adhesions. It causes rapid absorption of all exudates. It is of benefit in detachment of the retina and in optic neuritis. In all inflammatory conditions it is of service. It is beneficial after extraction of the lens, and is said to promote the absorption of opacities in the vitreous humor which have resulted from recent infiltration. It acts upon the pupil much after the manner of eserine.

Dr. Kent O. Foltz employed the drug regularly in **iridocyclitis**, in plastic and **traumatic iritis**, in **rheumatis iritis**, in **hylatis**, in simple **glaucoma** and in some cases of **optic neuritis**; also in traumatism of the eye, where there is effusion of the blood into the aqueous or vitreous humors, in **retinal hemorrhage**, in **chorio-retinitis**, and in detachment of the retina. It has been beneficial in beginning atrophy of the optic nerve. In **interstitial keratitis**, and in chronic **conjunctivitis**, also in **croupus** and **diphtheritic conjunctivitis**.

In the treatment of ear disease, it has a more limited use. In dry **catarrh** of the **middle ear**, and in **eczema** of the external auditory canal it has some beneficial influence. In effusion into the labyrinth it facilitates absorption. In **atrophic rhinitis**, and **pharyngitis**, it increases the activity of the glands, and produces general salutary results.

A few doses of from twenty to thirty drops of *jaborandi* are given internally in cases of severe *rhus* poisoning, combined with proper external applications.

In the treatment of the **bite** of **venomous snakes** and in anticipated hydrophobia, and in poisoning from canned fish and other meats—in ptomaine poisoning, the salts are administered in maximum doses.

The patient will show but little of the prostrating influences of the drug. It is eliminative in its influence, only the poison must be antidoted by the proper remedy, and in organic poisons the permanganate of potassium is an efficient remedy.

## **CUBEBA.**

## ***Piper cubeba.***

Synonym—Cubeb.

### **CONSTITUENTS—**

Volatile oil, fixed oil, wax, resin, cubebin, gum, malates, cubebic acid.

### **PREPARATIONS—**

**Extractum Cubebae Fluidum**, Fluid Extract of Cubeb. Dose, from five to thirty minims.

**Oleum Cubebae**, Oil of Cubeb. Dose, ten minims.

**Oleoresina Cubebae**, Oleoresin of Cubeb. Dose, from five to thirty minims.

**Specific Cubeb.** Dose, from five to twenty minims.

**Physiological Action**—Stimulant, carminative, expectorant, stomachic. It stimulates the intestinal tract like black pepper, and, in excessive doses, causes nausea, vomiting, burning pain, griping and purging. The active principle being absorbed causes general stimulation and a feverish condition, and sometimes redness of the skin.

**Therapy**—Cubeb is in common use in the treatment of **gonorrhoea**. Its best results are obtained when the active stage has passed, being especially useful in gleet, and also useful in the discharge present after acute prostatitis, especially if purulent in character, where the parts are greatly debilitated and there is **catarrh** of the **bladder** with nocturnal incontinence of urine, or in **spermatorrhoea** with enfeeblement, it is a useful remedy.

A snuff of Powdered cubeb is of much benefit in **acute coryza** if there is free secretion. It is beneficial also in some chronic cases.



Kava-kava at first stimulates, afterwards depresses and finally paralyzes, the respiration. The primary stimulation is due to excitation of the pulmonary peripheries of the vagi; the latter effect, to an influence exercised on the respiratory centers of the medulla oblongata.

Kava-kava, in small doses, increases slightly, and in large quantities diminishes the bodily temperature.

The drug increases notably the salivary secretion.

**Specific Symptomatology**—Its specific therapeutic value depends upon its influence upon the mucous membranes of the genito-urinary apparatus. It is profound in this influence, as it is probably eliminated by the kidneys to a certain extent unchanged. Its influence in reducing the quantity of blood in the capillary circulation is probably the cause of its action in reducing the inflammation in the mucous membranes of this apparatus. The writer has used it since 1882, and his experience confirms, other enthusiastic reports. It will cure gleet where all other remedies have failed. It will cure chronic **gonorrhoea** more quickly and more satisfactorily than many other better known remedies.

**Therapy**—The agent was first introduced for the treatment of all forms of **gonorrhoea**, but it will probably give better satisfaction, will show its prompt influence to a better advantage in the treatment of sub-acute forms or in the slow, persistent, and otherwise intractable forms, than in the acute variety. It is best given in full doses of from fifteen to thirty minims every two or three hours, in cold water. In the old, protracted gleet cases there will be no necessity of an injection or auxiliary treatment, but in the more acute or sub-acute cases, a mild injection or irrigation is needed, which with auxiliary agents, such as *gelsemium* or *cimicifuga*, to act upon the fever and nerve elements of the disease, will greatly facilitate its action.

It increases the tone and power of the sexual and urinary apparatus, and improves the general health and vigor of the patient. It is a mild but efficient diuretic, stimulating both the excretion and the secretion of the urinary constituents. It is of much value in **catarrh** of the **bladder**, in old and enfeebled cases relieving the symptoms promptly; in some cases restoring the strength and tone of the urinary organs. It relieves painful urination, overcomes strangury, and increases the power to expel the urine.

Morrill of Lincoln, Nebraska, is authority for the following statement as to the uses of this remedy: It is specially indicated where there is **atony** of the **bladder**, with a large quantity of residual urine, where the **uric acid diathesis** is pronounced. In prostatic troubles of old men, where the urine burns, and scalds, where there is hyperesthesia of the urethra and where the testicles and scrotum are pendulous, greatly relaxed and drag down upon the cord, which is tender, where the masseteric reflex is pronouncedly diminished, and where there is soreness or tenderness in the perineum.

The agent should be given well diluted, although it is not unpleasant in any vehicle. It will, however, derange the stomach, in some few cases, although it soothes the stomach usually, and is an active stomachic tonic.

The doctor gives it as routine treatment in gonorrhoea, in combination with an alkali, usually the citrate of potash. In the treatment of urinary disorders he gives the following **symptomatology**: Uneasy sensation in the region of the bladder; an inclination to pull up or hold up the parts, and the symptoms relieved by wearing a suspensory. Pain in the urethra extending to the perineum, urine highly acid, causing smarting and burning, acute and chronic **cystitis**, **prostatitis**, with hypertrophy, and **epididymitis**, and other conditions depending upon atony of the genito-urinary organs.

Dr. Cleary has treated several cases of intolerable **itching of the vulva** with *kava-kava* one part, glycerine two parts, applying this freely. The results were very satisfactory. In a diabetic case, he obtained just as good results. I shall experiment with this for further local anesthetic effects.

I have recently had an experience in the treatment of an exaggerated case of **pruritus of the vulva and anus**, which remained persistently after repeated poisoning from *rhus tox*, had been finally cured. The patient avers that an extemporaneous dilution made at my direction, of one part of *kava-kava* in from two to six parts of water, as the occasion demanded, has been an ideal application for immediate—almost instantaneous relief—when the itching was unbearable. The nervous system had become so involved in this case that nerve sedatives internally were demanded.

In the **nocturnal enuresis** of the aged and feeble, and in children from temporary muscular weakness, it is a most satisfactory remedy, curing

often when other remedies fail. It acts in perfect harmony with *belladonna* and strychnine in such cases.

Its diuretic influence has rendered it an important remedy in many cases of **dropsy**, the entire train of symptoms being quickly and satisfactorily relieved with its use. In those cases where the heart seems feeble and irregular in its action, its power and strength has increased and a cure resulted.

It **increases** the **appetite** actively, and improves digestion and assimilation to a satisfactory extent with a large percentage of the patients taking it, and may be given for this purpose in gastric atonicity. In some cases, in which the author has prescribed it, the agent has induced an almost inordinate appetite. It stimulates the entire function of digestion, in certain cases, to a satisfactory degree, correcting torpidity and functional inactivity of the glandular organs of the entire intestinal tract, increasing the peristaltic action of the intestines, overcoming constipation, and inducing normal and satisfactory bowel movement. It is curative in intestinal catarrh and in hemorrhoids.

Dr. Sherman, of Ohio, confirms the statements I have made, in previous editions of this work, concerning the influence of *kava-kava* upon the **stomach** and digestive apparatus, which I first observed in 1882, and adds to that the benefit of his own experience in the treatment of **intestinal indigestion**. There is a train of symptoms present when this condition has been of long standing which is promptly met with *kava-kava*.

He gives the following symptoms as immediately benefited with this remedy: There is scantiness and irregularity of the flow of urine, the patient's face looks full, sometimes pale, all the tissues seem to be slightly edematous, the feet and the legs more so than other tissues. The tongue is full and pale, the bowels regular or slightly constipated, with loss of appetite, and poor gastric or gastro-intestinal digestion. The patient feels languid, claims that he must force himself to do anything, and presents many of the appearances of Bright's disease, and yet the analysis of urine fails to find evidences of that disease. If this patient be put upon *kava-kava*, from twenty to thirty drops in water, four times a day, an improvement of all of the symptoms will be observed within the course of perhaps ten days. This improvement will continue until the patient is restored to perfect health.

The agent will relieve **cerebral hyperemia**, **arterial sclerosis**, and **hematogenous jaundice**. It will be found valuable in atony of the intestinal tract, especially if nervous phenomena seem to depend upon that condition.

The following is Dr. Morrill's treatment for acute **rheumatism**: *Kava-kava* five drams, *cimicifuga* three drams, citrate of potassium, four drams, elixir of pepsin, sufficient quantity to make four ounces. Give one dram well diluted every three hours. If there is profuse sweating, he includes *hyoscyamus*, two drams in the prescription, instead of the citrate of potassium. He wraps the joints in cotton, and insists upon rest in bed and an extreme non-nitrogenous diet. He gives no salicylates in acute rheumatism. He claims that this course will prevent all cardiac complications.

He believes much of the severity of the condition depends upon gastrointestinal faults, and these must have constant attention.

## **PISCIDIA**

### ***Piscidia erythrina***

Synonym—Jamaica Dogwood.

#### **CONSTITUENTS—**

Piscidin, Resin, Oil, Calcium Oxalate.

#### **PREPARATIONS—**

**Extractum Piscidiae Fluidum**, Fluid Extract of *Piscidia*. Dose, from a half to two drams.

**Physiological Action**—In moderate doses, *Piscidia* lessens sensation, induces sleep and increases the saliva and perspiration. In toxic doses it destroys sensation, paralyzes the respiratory centers, reduces the heart's action; first increases, then diminishes arterial tension and decreases the pulse rate. It first contracts, then dilates the pupils in full overdoses. It causes dyspnea, spinal convulsions, general paralysis and death. It reduces reflex action, including tetanic spasm, by excessive stimulation of the spinal cord.

Felter and Lloyd quote Dr., Ott as giving the following concerning the physiological action of this remedy: It increases the salivary and cutaneous secretions, slows the pulse, increases the arterial tension, its action being succeeded by reduced tension, which is due to a weakening

of the heart. It dilates the pupils, except when the patient is passing into a state of asphyxia, when contraction takes place. It does not affect the irritability of the motor nerves, nor the peripheral sensory nerve ending. It may cause heart failure or arrest of respiratory action. In some susceptible patients small doses produce nausea, vomiting and headache.

Dr. Harris of New York says the remedy increases dyspnea, which is followed, from sufficient doses, by respiratory paralysis.

There is drowsiness, gradually increasing; muscular relaxation; incoordination of movement; diminished reflexes; lowered sensibility; dilatation of the pupils. Toxic doses produce convulsions and a tetanoid condition caused by overstimulation of the spinal cord.

*Piscidia* stimulates salivary secretion, diaphoresis, and to a slight extent diuresis.

It logically follows that its usefulness depends upon its action upon the brain and spinal cord, for other remedies excel it in its effect upon the heart, lungs and glands. Furthermore, it is well to consider that this remedy has no direct effect upon the gastro-intestinal tract, and that it therefore induces no nausea, no anorexia; that it does not suppress the secretions; that it does not inhibit normal peristalsis; causes no unpleasant after-effects and produces no subsequent craving for drugs. It may therefore truly be called a harmless nerve sedative, indicated in the three following conditions: (1) spasmodic affections; (2) neuralgic affections; (3) cerebral excitation.

**Administration**—The agent must be given in sufficient doses and repeated. It is not active in small doses. It lacks the power of *opium*, but operates in the same lines as an analgesic, with desirable exceptions.

It is especially applicable in those cases where the patient cannot take *opium* or morphine. It does not produce toxic or undesirable effects in medicinal doses.

**Specific Symptomatology**—The agent, in doses of from a half drachm to a drachm, will produce quiet and restful sleep, when the insomnia is due to nervous excitement, mental worry or anxiety, and in elderly patients, neurasthenics and children.



**Therapy**—In susceptible patients it will control **pain** and relieve **general distress**. It is distinctly a nerve sedative, and overcomes nervous excitability and also reflex irritability. It is an antispasmodic of much power in mild cases.

If given during the course of **inflammatory fever** of any character, and in inflammatory **rheumatism**, it is a useful and grateful remedy. It does not oppose other indicated agents, and induces the often needed sleep.

In violent **spasmodic cough** it produces relief, and in the irritating persistent cough of **bronchitis** it is of service as an auxiliary to cough syrups. In **phthisis** it controls the night cough and induces restful sleep.

It has been highly lauded as a specific in **whooping cough**. The **cough of phthisis** will yield to the remedy under consideration when large doses of codeine have failed. In **dysmenorrhea piscidia** has been remarkably efficacious. A **morphine habitue**, taking ten grains three times daily, suffered excruciating agony at menstrual periods. An increase of two grains at each dose brought no relief. *Piscidia*, in ten drop doses every hour brought relief, and hitherto has proved unfailing in that particular case.

Acute **intestinal colic** yields to *piscidia*. **Gall-stone colic** and **renal colic**, while not yielding to the remedy as they do to morphine, are rendered bearable by *Jamaica dogwood* after an initial dose of the former. It has been used to lessen labor pains, and has been lauded by some observers as highly efficacious.

**Facial neuralgia** seems particularly amenable to the action of *piscidia*. **Ovarian neuralgia** and pains due to straining on the uterine ligaments in displacement and tumor, are relieved by this remedy. It seems to have a satisfactory influence on all pelvic pain.

For **sleeplessness**, in both sthenic and asthenic conditions, *piscidia* is a reliable remedy. **Delirium** in sthenic conditions yields to *piscidia* as does **hysteria** consequent upon uterine and ovarian disorders. *Piscidia* is of use in hemicrania and congestive headaches generally.

In **obstetrics** it controls erratic pains and conduces to quiet and rest, and overcomes rigidity by its specific relaxing or antispasmodic influence, although it does not interfere with the normal uterine contractions.



Plantago is of immediate benefit, Dr. Kinnett. says, in the treatment of **snake bites**. It should be made and given freely and a poultice of the leaves applied to the wounds.

Plantago relieves **inflammatory infection of the skin**, especially if accompanied with burning pain or itching. Inflammation of the intestinal tract which involves the mucous membranes and is accompanied with colicky pains will be relieved by *plantago*.

Old Dr. Smith from southern Illinois applied *plantago* in the form of a saturated tincture as a dressing for fresh cuts, wounds, or bruises. He could thus secure healing without the formation of pus. He made his tincture of the entire plant and roots, pounded up in alcohol. He applied one part usually to four of water.

Where the **teeth** have developed sudden **tenderness** and seem to be too long from ulceration of the roots, Dr. Turnbaugh gives *plantago*, ten drops of a three x dilution every three hours. He gives the late Dr. K M. Hale credit for the formula.

Dr. Wallace dips a teaspoon into hot water, drops into this five drops of the *specific plantago*, and pours this into the ear for earache, filling the ear afterwards with cotton. He claims immediate relief in aggravated cases.

Externally the bruised leaves have been applied in the form of a poultice, to **chronic ulcers**, and **skin disorders**, resulting from depraved blood. The juice may be combined in the form of an ointment. One physician told the writer that he saw an Indian woman pound up a large quantity of *Plantain leaves*, put them into a skillet, and pour on enough lard to cover. This was boiled for some time, then strained. When cool, the product was a smooth, greenish colored ointment. With this a chronic and previously absolutely intractable skin disease, similar to a dry form of eczema, was rapidly and permanently cured. This ointment in appearance and action very closely resembles the proprietary preparation, known as cuticura.

## **PODOPHYLLUM.**

## ***Podophyllum peltatum.***

Synonym—Mandrake.

## **CONSTITUENTS—**

Picropodophyllin, picropodophyllic acid, podophylloquercetin, gum, starch, gallic acid, volatile oil, fixed oil, salts.

## **PREPARATIONS—**

**Extractum Podophylli Fluidum**, Fluid Extract of Podophyllum. Dose, from five to ten grains.

**Resina Podophylli**, Resin of Podophyllum, **Podophyllin**. Dose, one-eighth grain.

**Specific Medicine Podophyllum**. Dose, from one-fourth to ten minims.

This exclusively Eclectic remedy has occupied a prominent place in our literature for eighty-five years. John King isolated Podophyllin as a resinoid in 1833, and published a report of his method and observations on the remedy in 1844 in the Philosophical Medical Journal of New York. Following King's suggestions, Lewis made an analysis of the drug in 1847 which was first quoted by the U. S. Dispensatory in 1854, twenty-one years after King had first isolated the resinoid. It was called by the Eclectics of that time vegetable calomel because it was used to replace calomel in their therapeutics.

In malarial country regions this agent will be more often indicated than in the city, as the habits and environment of city life are more apt to induce extremely opposite conditions to those which indicate Podophyllin.

**Administration**—The physiological action does not suggest to a great degree the uses which our experience has taught us to make of this remedy. The drastic cathartic influence we do not need, as it is too harsh in its active influence. From five to thirty drops of the tincture in a four ounce mixture, or from one two hundredths to the one-twentieth grain of Podophyllin, will be found sufficiently active.

**Specific Symptomatology**—This agent is demanded in inactive, conditions of the gastro-intestinal tract, indicated by a heavily coated tongue, which is thick, broad and pale, and the coat of dirty yellow color especially at the base, together with perhaps vertigo, complete anorexia, and dull, heavy headache. The circulation is full and sluggish, and the abdominal viscera is in a plethoric condition.

**Therapy**—These conditions will suggest the use of the agent whatever

the name of the existing disease. In acute inflammatory conditions, or in irritable conditions of the stomach or bowels, it is contra-indicated in active doses.

In the condition known as **biliousness**, with markedly inactive liver, sallow skin and conjunctiva, constipation, highly colored urine containing uric acid, urates in great excess, and bile, it is of value. In these cases the following formula, although unpleasant to the taste, will be of great service:

Tincture of *podophyllum*, tincture of *leptandra*, of each half a dram; tincture of *capsicum* twenty minims; syrup of *liquorice*. half an ounce; port wine sufficient to make four ounces. Give a teaspoonful every two or three hours.

If there is **enlargement** of the **liver**, with general indisposition, soreness over the liver and pain through the right side and under the right scapula, it is the remedy.

In inactivity of the liver characterized by **constipation**, the feces when passed being solid or hard and of a grayish or clay color, and floating upon water, with general indisposition, podophyllin may be given in doses of one-fiftieth of a grain every two or three hours. If there is a great sluggishness with obstinate constipation, one-tenth of a grain may be given for two or three doses, the smaller doses to follow. It is given in **jaundice** with its marked indications to excellent advantage. If given for its cathartic influence it should be combined with *hyocyamus* or *belladonna*, or it may be given in conjunction with *leptandra virginica*.

Podophyllin, in from one-half to one grain doses repeated once or twice, and followed by half a pint of pure olive oil, is reasonably sure treatment in the removal of **gall stones**. The results may be painful, but the patient will have subsequent relief.

The agent in minute doses will permanently cure some conditions which cause **chronicconstipation**, but if desired for this purpose, like *cascara*, it must at no time be given in full active doses. Locke advises a teaspoonful of a mixture of thirty grains of the second decimal trituration in a half glass of water to be given a child three times each day for constipation.

In minute doses it will stimulate intestinal secretion and peristaltic action in children, and overcome **dry stools**, and constipation and

bloated bowels, with erratic colicky pains.

In the treatment of **hemorrhoids** accompanied with constipation from deficient peristalsis and general abdominal plethora, *podophyllum* is of direct service. It can be given in conjunction with *collinsonia* and the effects are marked from the first.

The writer has prescribed the tincture or fluid extract of *podophyllum* for several years as an **alterative**. If the plethoric conditions named as indicating it are present, it is much more active, and is always to be given in doses sufficiently small to avoid any irritating or cathartic effects. In **skin diseases** of childhood, such as cracked and fissured conditions of the skin of the face, or **eczema**, or persistent **pustular conditions**, it is of value.

It may be prescribed with most happy results with other alteratives in **scrofula** or **syphilis**, or in the eruptions which result from these disorders.

Younkin is authority for the use of this agent in one-sixth of a grain doses, with ten grains of the potassium bitartrate, given every two hours in **gonorrhoeal epididymitis**, of which it relieves the pains and abridges the inflammation. Other indicated remedies are, however, not to be overlooked. It may be given with confidence in this condition.

## **SENEGA.** *Polygala senega.*

Synonym—Seneca Snakeroot.

### **CONSTITUENTS—**

Polygalic acid, polygalin, fixed oil, resin, volatile oil, sugar, malates.

### **PREPARATIONS—**

**Extractum Senegae Fluidum**, Fluid Extract of Senega. Dose, from ten to twenty minims.

**Specific Senega**. Dose, from one to twenty minims.

**Physiological Action—***Senega* has sustained a reputation in the past, as an antidote to the poison of venomous reptiles. It is an alterative of much power, exercising a marked influence upon both the skin and mucous membranes, notably the latter. In large doses it produces nausea, vomiting and catharsis.

It causes a sensation of acidity in the throat when a moderate dose is swallowed, and may be employed in chronic pharyngitis, as a local stimulant, where the mucous membrane is relaxed and the secretion abundant.

**Specific Symptomatology**—The agent is indicated in **typhoid pneumonitis**, capillary bronchitis, in aged and debilitated subjects, chronic bronchitis with profuse secretion, in the declining stages of pneumonitis, bronchitis and croup, when the inflammatory condition has passed off, chronic bronchitis with pain and soreness in the chest and asthma.

**Therapy**—The agent is in use in the treatment of **dropsy** from obstruction and glandular enlargement, also in **rheumatism**, **syphilis**, **squamous skin diseases** and in **amenorrhea**. In inflammation of the eyelids, and iritis it is beneficial.

*Senega* has been employed as a stimulating expectorant in **chronic bronchitis**, in aged and debilitated subjects, where a stimulating medicine is demanded and in the later stages of pneumonia and catarrhal inflammations.

In these cases, given in small doses, it improves secretion, removes abnormal deposits and restores the strength.

It is an energetic stimulant to the mucous membranes of the air passages: and, when given before the inflammation has subsided, aggravates the cough and does harm. Given in small doses, it also acts as an alterative, and may thus be given in dropsy from obstruction, in **syphilis**, and in squamous skin diseases.

In the treatment of **chronic asthma** this is an efficient remedy.

**POLYGONUM.** *Polygonum punctatum*

Synonym—Smart-weed.

**CONSTITUENTS**—Not analyzed.

**PREPARATIONS**—

**Specific Polygonum.** Dose, from one to sixty minims.

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Inactive engorgements, or stagnations of the circulation, are general conditions pointing to the use of this agent. Scudder gave as its indications full, flabby, sallow tissues, impaired circulation, glandular enlargement and other impaired functions from lack of tone.

**Therapy**—The older writers of our school lauded this remedy as of much importance in **rheumatism**. Others spoke of it favorably in the same class of cases in which *phytolacca* is used. Dr. Pruitt used it in the form of an ointment, in **inflammation** of the **mammary glands**, and other glandular inflammations, especially if abscesses had formed. The specific influence of the remedy, however, as agreed by all writers, is upon **enlargement** of the **spleen**. This gland is influenced in chronic malarial conditions, in scrofulous diseases and in tubercular difficulties. It is upon the malarial form of splenic enlargement that it acts to the best advantage.

It should be used freely internally, and externally the hot infusion must be applied. Other marked indications may be met with selected remedies.

It is indicated also in the **glandular** and structural **hypertrophy** of other organs. A chronically enlarged inactive engorged liver, with tenderness on pressure, is quickly and satisfactorily cured by it. A **womb enlarged** from **subinvolution** or other hypertrophy, yields satisfactorily to its influence.

It has been used in **mastitis** or “caked breast” so-called, to excellent advantage, but its prolonged use may suppress the secretion of milk. It is an active stimulant to the removal of waste in all the conditions mentioned. The removal of chronic inflammatory deposits stimulates the capillary circulation to better action and relieves the aching pain and soreness common to such conditions.

It has been praised most highly in the treatment of **rheumatism**, **lumbago**, **myalgia**, and other painful conditions dependent upon the imperfect removal of the products of retrograde metamorphosis. It is a remedy of much value in **scrofulous conditions** with glandular indurations or abscess.

Its external application has relieved many cases of severe **spinal irritation**, especially if present with the general conditions named above as indicating the use of this agent.

Dr. Scudder gave the following list of disorders, in which it had a direct

influence: Chronic enlargement of the spleen, chronic enlargement of the liver, chronic hypertrophy of the cervix uteri, chronic gastritis, chronic metritis with hypertrophy, uterine subinvolution and general glandular enlargement. The remedy, no doubt, stands at the head of spleen remedies, but it is not used as it should be, the younger physicians paying but little attention to it. It influences all of the ductless glands.

Dr. Felter says, when dyspepsia depends upon a sluggish circulation in the gastric and hepatic arteries, and is attended with full, heavy, burning sensation, in the parts supplied by these arteries, this is our remedy. It has benefited **leucocythemia**. Its use should be persisted in for weeks. A common cause of failure in the treatment of chronic diseases is the lack of persistency.

The solid extract of *polymnia* is readily incorporated with any ointment base, and the external use of the agent over enlarged glands is often as important as its internal use.

Scudder claimed that it was the best **hair tonic** in the materia medica, in the proportions of four ounces of the tincture with twelve ounces of bay rum, to be rubbed thoroughly into the scalp. A good combination would be castor oil three parts, glycerine one part, lanolin three parts, extract *uvedalia* two parts, melted and rubbed together and cooled. This should be rubbed thoroughly into the roots of the hair. The addition of a very small quantity of *cantharides* improves this in stubborn cases.

## **POLYTRICHUM. Polytrichum juniperum.**

Synonym—Hair-cap moss.

**CONSTITUENTS**—Not analyzed.

### **PREPARATIONS—**

**Specific Polytrichum.** Dose, from five to sixty minims.

**Specific Symptomatology**—The agent is used in anasarca, ascites, urinary obstruction, suppression of urine in children, febrile and inflammatory diseases, uric and phosphatic acid gravel, acute gonorrhoea with severe burning pain on passing urine, irritation of the bladder, difficult micturition of pregnancy, and often occurring during parturition.



the use of this remedy, and the conditions remaining in early convalescence are quickly overcome. The agent is a tonic to the kidneys, increasing their functional activity, relieving **vesical** and **urethral tenesmus**. It will also overcome **prostatic hypertrophy** in some cases, and is available in uterine congestion. It is of service in impaired digestion, either gastric or intestinal, chronic diarrhoea, with general debility. Other specific remedies may here be given in conjunction with it. Dr. Alter says that it corrects errors of physiological metabolism, induced by malarial toxemia. It is a most powerful antiperiodic. It will not cause deafness. It will not cause abortion, but on the contrary will prevent **abortion**, which is threatened by the presence of malarial conditions. It shows its influence best where there is **general debility**, very marked, with impairment of the nutritive functions of the body.

Dr. Fearn says, concerning *populus*, this remedy is a powerful stimulant, tonic, and diuretic. And this statement fixes its place in treatment, in the hands of the true specific medicationist. When we use this remedy as a tonic or diuretic, we should never use it in cases accompanied with irritation whether it be of the stomach, bowels, uterus, bladder, or prostate. In atonic conditions of all these different organs where we desire to stimulate and tone up the organ, *populus* is a grand remedy. When first I began to use this Sampson among remedies of its class, I had to use decoctions of the bark—it was a nasty, bitter dose. How much better to use the specific medicine in from five to twenty drop doses.

Dr. Howe reported a case where a soldier had chronic diarrhea which may have been caused by malaria. Howe put him on *populus* for a time and made a complete cure. If a little of the *poplar bark* be put into a cup and covered with boiling water, this will make a strong enough infusion for many conditions, taking only a teaspoonful or two at a time.

Dr. Alter of Arkansas has given it for many years for **swamp fever**. He also uses it in the **irregularities of women**. He thinks it acts somewhat as *hydrastis* in promoting a physiological action of all organs, and increasing the vital force within the system. It may be well given in conjunction with *hydrastis*. Dr. Alter used it very widely whether it was strictly indicated or not, and became convinced of its active therapeutic property.

## **PRUNUS.**

## ***Prunus serotina.***

Synonym—Wild Cherry.

This is often called, though improperly, *Prunus Virginiana*, which belongs to the Choke Cherry family.

### **CONSTITUENTS—**

Hydrocyanic acid, amygdalin, volatile oil, emulsion, tannin, gallic acid, resin, starch, a bitter principle.

### **PREPARATIONS—**

**Extractum Pruni Virginianae**, Fluid Extract of Wild Cherry. Dose, from a half to one dram.

**Specific Medicine Prunus**. Dose, from one to ten minims.

**Therapy**—The tonic influence of this agent is more markedly apparent when it is administered in disease of the respiratory apparatus of a subacute or chronic character. It is not given during the active period of acute cases, but is of value during the period of convalescence.

It is a common remedy in the treatment of **chronic coughs**, especially those accompanied with excessive expectoration. It is valuable in whooping-cough. The syrup is used as a menstruum for the administration of other remedies in this disease. It is excellent also in reflex cough—the cough of nervous patients without apparent cause. The syrup may be used persistently in **phthisis**, for the administration of many other agents which seem to be indicated during the course of the disease. *Wild cherry* is popular in the treatment of mild cases of **palpitation**, especially those of a functional character, or from reflex causes. Palpitation from disturbed conditions of the stomach is directly relieved by it. It is said to have a direct tonic influence upon the **heart** when the **muscular structure** of that organ is greatly weakened, where there is dilatation or valvular insufficiency, especially if induced by prolonged gastric or pulmonary disease.

As a remedy for **dyspepsia** it has many advocates. It is a tonic to the stomach improving digestion by stimulating the action of the gastric glands. It soothes irritability of the stomach from whatever cause. Although the properties of a nerve sedative are not ascribed to this agent, general nervous irritation is soothed by its administration, nervous

irritability of the stomach and of the respiratory organs is allayed, and a tonic influence is imparted to the central nervous system.

## **PTELEA.**

## ***Ptelea trifoliata.***

Synonym—Wafer Ash.

### **CONSTITUENTS—**

Oleoresin starch, albumen, yellow coloring matter, berberine, volatile oil, salt of lime, potash and iron.

### **PREPARATIONS—**

**Specific Medicine Ptelea.** Dose, from one to twenty minims.

**Therapy—**The agent is a mild tonic, exercising a direct influence upon the stomach and digestive apparatus, correcting certain faults of gastric secretion, overcoming dyspepsia and improving the appetite. It may be given to good advantage with other stomachic tonics and iron. It corrects atonic diarrhea and is of benefit in dysentery, its pungent properties and sufficient astringency renders it of benefit in mild cases. In full doses it acts upon the skin as a diaphoretic. It has been given in lung troubles, but we have other active remedies which produce more gratifying results.

## **KINO.**

## ***Pterocarpus marsupium.***

**Part Employed—**The juice dried without artificial heat.

### **CONSTITUENTS—**

Pyrocatechin, kino-tannic acid, kino-red, kinoin.

### **PREPARATIONS—**

**Tinctura Kino,** Tincture of Kino. Dose, from ten to sixty minims.

**Physiological Action—**This agent produces a slight hardening and mild discoloration of the unbroken skin. Its astringent influence upon mucous membranes is more pronounced. Upon raw surfaces it contracts tissues, checks the flow of blood, coagulates albuminoids, and in some cases produces local irritation. It is positive and immediate in its action upon the mucous structures of the gastro-intestinal tract, acting as a persistent tonic astringent. It is almost entirely devoid of irritating properties.

**Therapy**—*Kino* is less used than formerly. It may be given whenever there is excessive secretion or excretion. In **inordinate night sweats**, either during convalescence from prostrating disease, or those of phthisis pulmonalis, it is a useful remedy. In the treatment of **polyuria**, *kino* is advised as an active agent with which to control the excessive output of water. It is also used in **diabetes mellitus**, and in protracted **watery diarrheas** without pain, characterized by relaxation and flabbiness of tissues, and general feebleness. It may be prescribed in the **diarrhea of typhoid**, also, with good results, especially if hemorrhage be present.

The powder may be blown into the nostrils in **epistaxis**, and it may be dusted on ulcers and bleeding surfaces. An injection of a strong solution is useful in **leucorrhea** and in other discharges either of a specific or nonspecific character. It is of some service in **pharyngitis**, or in **elongated uvula**, also in simple acute sore throats.

## **GRANATUM.**

## ***Punica granatum.***

Synonym-Pomegranate.

### **CONSTITUENTS—**

Pelletierine, a colorless liquid, soluble in twenty parts of cold water, freely soluble in alcohol. Acted upon by sulphuric, hydrochloric, or hydrobromic acids, a crystalline salt is formed in each case. With tannic acid, the tannate of pelletierine is formed, a yellowish powder, odorless, pungent, astringent.

Dose of the **alkaloid**, from one-tenth to one-half grain.

Dose of the **salts of the alkaloid**, from one to five grains.

**Extractum Granatum Fluidum.** Fluid Extract of Granatum. Dose, from fifteen to thirty minims.

**Physiological Action**—*Pomegranate* has an astringent influence quite marked, at the same time in full doses it produces evacuation of the bowel, and in some cases irritation and emesis may be induced. A decoction of the fresh bark of the root will produce the best results, when the anthelmintic influence of the agent is desired.

**Therapy**—It is a specific for the destruction of the **tapeworm**. Two ounces of the fresh bark is macerated in two pints of water for twenty-four hours, when it is then boiled down to one pint. After fasting one day, the patient

may take a wine-glass of this every hour, until the pint is taken. It may induce vomiting and purging, but if the bowels do not move freely, a physic should be given near the end of the treatment, or sometimes a glycerine enema will be sufficient. If not at first successful, the treatment should be repeated within a few days. When the fresh bark cannot be obtained, the alkaloid or its salts may be resorted to. This agent has been used in diarrhea and in **colliquative night sweats**. In **bronchorrhea** and as a gargle in various forms of **sortthroat**, it has produced good results. It has been used both internally and as a douche in **leucorrhoea**.

## **QUASSIA.**

## ***Quassia amara.***

Synonym—*Simaruba Excelsa*.

### **CONSTITUENTS—**

Quassin. Dose, one-third of a grain.

### **PREPARATIONS—**

**Extractum Quassiae Fluidum**, Fluid Extract of Quassia. Dose, from ten minims to one dram.

**Tinctura Quassiae**, Tincture of Quassia. Dose, from one-half dram to one dram.

**Physiological Action**—The taste of *quassia* is so intensely bitter that with some patients it acts as an emetic at once. It stimulates most positively the salivary, mucous, gastric and intestinal canal. It is an anthelmintic and parasiticide.

**Specific Symptomatology**—Extreme inactivity of the digestive and assimilating organs from debility—a cessation of function from lack of power, is an indication for the use of this remedy. The evidences are a broad, flabby tongue, pale, thick, indented with the teeth, sometimes heavily furred, coated with a dirty white or brownish coat, mucous membranes of the mouth pale, anorexia, general feebleness.

**Therapy**—It is one of the best of what is known as “stomach bitters.” In **debility** of the **stomach** or **intestinal** structures, and inactivity of the secreting organs, the tonic effects of this agent are most pronounced. In convalescence from severe acute disease, the conditions there often existing are satisfactorily corrected with this remedy.

Many forms of **dyspepsia** depending purely upon atonicity, are cured by



the use of *quassia*, either alone or in conjunction with some of the other remedies of this group which possess a similar action.

*Quassia*, by enema, will destroy **ascarides**. **Pin** or **thread worms** in large quantities may be removed by a single injection of a strong infusion of the bark.

As these worms infest almost the whole of the large intestine, it is advisable for their complete removal that the patient lie on the left side with the hips elevated, and that a large quantity of the infusion, not too strong in this case, but as warm as can be borne, be slowly introduced into the bowel from a fountain syringe. Tonic remedies internally are advised in conjunction if there is a persistent tendency to their reappearance.

*Quassia* in infusion will destroy small insects, ants, flies and lice of all kinds. The pediculus capitis and pediculus pubis are readily destroyed by frequent washing with a strong infusion of the drug.

## **QUERCUS.**

### ***Quercus alba.***

Synonym—White Oak.

#### **CONSTITUENTS—**

Tannin, quercin.

#### **PREPARATIONS—**

**Extractum Quercus Albae Fluidum**, Fluid Extract of Quercus Alba.

Dose, from a half to one dram.

**Specific Medicine Quercus**. Dose, from five to thirty minims.

**Therapy**—The agent is of value in epidemic dysentery acute and chronic diarrhea, obstinate intermittents, pulmonary and laryngeal phthisis tabes mesenterica, great exhaustion of the vital powers from disease, profuse, exhausting night sweats, colliquative sweats in the advanced stages of adynamic **fevers**, and debility, and severe diarrhea in sickly children, scrofula, gangrene, ulcerated sore throat, fetid, ill-conditioned and gangrenous ulcers, relaxed mucous membranes with profuse discharges, **bronchorrhea**, **passive hemorrhages**, **relaxed uvula** and sore throat, **spongy granulations**, **diabetes**, prolapsus ani, bleeding hemorrhoids, leucorrhoea, menorrhagia, hemoptysis.

Generally *white oak bark* is used locally, in decoction, for the general purpose of an astringent, but it is also tonic and antiseptic, and possesses specific powers.

In severe **epidemic dysentery**, a strong decoction of *white oak bark*, given internally, in doses of a wineglassful every hour or two, the bowels being first evacuated by a cathartic of *castor oil* and *turpentine*, has effected cures where other treatment had proved of little or no avail.

In **marasmus, cholera infantum**, scrofula, and diseases attended with great exhaustion, baths medicated with *white oak bark*, accompanied by brisk friction, have restored the waning powers of life.

When employed as a local application to **ill-conditioned ulcers** and gangrene, either a poultice of the ground bark, or cloths wet with the decoction may be applied.

In pulmonary and laryngeal phthisis a very fine powder of the bark may be inhaled.

I have depended upon a decoction of *white oak bark* one ounce to the pint of boiling water, to which I have added after straining, a dram of boric acid for all ulcerations of the mouth or throat, both in the early stages and in many chronic cases. It is surprising how many simple early throat troubles this will abort, and how frequently it will prevent suppuration in tonsillitis. Combined with *Yellow Dock*, it has cured for me the severest cases of nursing sore mouth that I have had, after other lauded remedies had signally failed.

When the remedy is given internally in diarrhoea and dysentery, it should be combined with cinnamon or other astringent aromatic.

## **CASCARA SAGRADA.**

Synonyms—*Rhamnus Purshiana*, chittem bark, sacred bark, Bearberry, bear-wood.

### **CONSTITUENTS—**

There are present a crystalline, bitter principle and three distinct resinoid bodies, not bitter, which are believed to be derived from chrysophanic acid which is thought to be present in the bark.

## **PREPARATIONS—**

**Fluid Extract Cascara Sagrada**, not miscible with water. Dose, as a stomachic tonic and function restorer, three to ten minims; laxative, five to twenty minims four times a day; as a cathartic, twenty to sixty minims morning and evening.

**Solid Extract Cascara Sagrada**. Dose, as a laxative, one-half to two grains; as a cathartic, three to eight grains.

**Powdered Extract Cascara Sagrada**, produced by evaporating the solid extract at a low temperature and triturated with sugar of milk, same strength as the solid extract.

**Cascara Cordial** with elimination of the bitter principle. Dose, half a dram to a dram and a half.

**Physiological Action**—Dr. Bundy, the discoverer of *cascara*, writing in 1878, says: “I employ a fluid extract of *cascara*, using one ounce in a four ounce mixture in combination with other remedies or alone, as the case may require. It acts upon the sympathetic nervous system, especially upon the solar plexus, stimulating the nutritive and assimilative forces, increasing the digestive processes generally. It acts upon the secretory system in a marvelous manner, especially where the secretions are deficient and perverted, and this seems be one of its special indications. Constipation depends upon the nature of the diet, deficiency or a faulty composition of the intestinal secretions, disordered glands that pour their secretions into the intestines, impairment of muscular power, which leads to a deficiency in their propelling power which may result from nervous or mechanical influences, congestion of the portal circulation, normal secretion of intestinal juices interfered with, deficiency in biliary secretions of a healthy character, congestion of mucous membranes of intestines, and last and the most frequent, constipation which has been caused by resisting the calls of nature from carelessness or circumstances that prevent obedience at the proper time.”

Scheltzeff in 1885 (London Med. Record) made the following observations: “In doses from four to ten cubic centimetres (with double quantity of water), *cascara sagrada* excites the secretion of gastric juice and increases it during digestion. It increases also the secretion of the pancreatic juice. It excites and increases the secretion of bile. It has no action on the secretion of saliva. It has not led to any rapid and considerable evacuations.”

*Cascara* is a bitter tonic of specific value in its direct influence upon the function of the stomach and intestinal canal. It acts upon the vasomotor

system, stimulating the glandular apparatus of the intestinal tract to more perfect secretion, and increasing peristaltic action. It is especially indicated in torpidity or atonicity, quickly restoring functional activity.

It is not a cathartic in the common acceptation of the term, but by restoring normal function, by its tonic influence, bowel movement of a natural character follows.

It does not mechanically liquefy and empty the intestinal canal, but it restores normal elasticity and tone to the relaxed structures, and natural vermicular motion and peristaltic action, exercising a direct influence upon muscular structure of the intestinal walls. It materially influences the venous and capillary circulation of the entire intestinal tract, thus proving of much value in hemorrhoids.

**Administration**—In prescribing *cascara* for the cure of **chronic constipation**, large doses at the first are undesirable. If a single dose, so large as to produce a cathartic effect be administered, subsequent small doses will prove insufficient to restore tone, and the constipation will remain unless the large dose is constantly repeated. If a dose of from two to ten drops in a proper vehicle be given, three, four or five times daily for many days, even if the constipation does not at first yield, the effects after a few days are usually salutary. There is a normal movement in the morning and the habit of regular evacuation can be soon fixed, and as the agent is continued the dose may be slowly decreased until a single drop at each dose is given. Finally, a single small dose morning and night may be continued for a time and then stopped, the bowels continuing their normal action.

If constipation pre-exists, it is well to give a simple laxative or to flush the bowels thoroughly with some other agent before beginning the use of this, to overcome the chronic condition. The results can be sooner obtained also by smaller doses.

**Therapy**—Large doses of the agent produce colic and are seldom needed. In the temporary **constipation of pregnancy** or in the convalescence of acute disease, doses of from one-fourth to one-half dram in a tonic mixture, preferably of malt extract, taken at the bed hour will be most satisfactory. Often a single dose followed by a glass of cold water on rising will have a salutary effect. This is true of constipation extending over a short period, not necessarily chronic. To produce an immediate effect as a physic, a dram of the fluid extract should be given, and it will probably

induce some pain. The agent should not be used in this active form for its immediate effects during the pregnant term, as its irritating influence may be sufficient to produce miscarriage.

*Cascara* in medium doses is an efficient agent in **gastric** or **intestinal catarrh**. It quickly restores the normal tone of the mucous membranes, suspending undue secretion and acting in perfect harmony with other measures adopted.

It is a useful remedy in many cases of **chronic indigestion** and in chronic disease of the liver. It has been used in **cirrhosis** with the best of results. It is useful in **jaundice** with deficient excretion of bile, and corrects catarrh of the bile duct. It is useful in **diarrhea**, subacute or chronic, depending on deficient liver action, and upon catarrhal and atonic conditions of the intestinal tract.

In 1886 quite an interest was excited by the assertion of Goodwin, of New York, that *cascara* was an excellent remedy for **rheumatism**. Many experimented with it and some reported excellent results, but its use for this purpose has not been continued. It is, however, of value in the treatment of those cases where gastric and intestinal disorders are present, given in conjunction with more specific agents.

## **RHEUM**

### ***Rheum officinale.***

Synonyms—Rhubarb, Chinese or Turkey Rhubarb.

#### **CONSTITUENTS—**

Chrysophan, phaeoretin, erythrorrhetin, aporetin, chrysophanic acid, rheotannic acid, emodin, gallic acid, rheumatic acid, calcium oxalate, sugar, starch, salts.

#### **PREPARATIONS—**

**Extractum Rhei**, Extract of Rhubarb. Dose, from ten to fifteen grains.

**Extractum Rhei Fluidum**, Fluid Extract of Rhubarb. Dose, from a half to two drams.

**Syrupus Rhei et Potassae Compositus**, Compound Syrup of Rhubarb and Potassa, Neutralizing Cordial. Dose, from one to four drams.

**Specific Medicine Rheum**. Dose, from one to twenty minims.

**Physiological Action**—The influence of this agent is peculiar. It is a laxative first, cathartic if in extreme doses, and subsequently astringent.

It tones the gastro-intestinal tract to a marked degree, if debilitated, and if over-activity is present, the agent restrains that condition.

It mildly and satisfactorily evacuates the bowels without irritation or stimulation. Some individuals eat a few grains of the crude root, which they carry in the pocket, every day for chronic constipation, others are not benefited with large doses.

**Therapy**—In **atonic conditions** of the **bowels**, with debility or general relaxation, whether **diarrhoea**, **dysentery**, **cholera morbus** or **cholera infantum** is present, it is a most useful remedy. Its tonic powers are promptly exercised, and properly combined with indicated remedies, it produces markedly restorative effects. It acts directly upon the duodenum, and subsequently upon the entire intestinal tract. It is the laxative for debilitated patients, or for patients recovering from prostrating disease.

Given to a nursing mother, like *aloes*, it relaxes the infant's bowels, and in some cases it is desirable to administer it to the mother for this purpose.

## **SYRUPUS RHEI ET POTASSAE COMPOSITUS.**

Synonyms—Syrup of Rhubarb and Potassa Compound. Neutralizing Cordial.

This old Eclectic formula has attained such a wide notoriety—is in such general use in our own school, and is now so popular among the regular physicians and so generally adopted by them, that it deserves a conspicuous place in this book. It has no superior as a restorative to acute abnormal conditions of the stomach or bowels demanding an antacid. Prof. King's original formula is as follows, which happily combines the active virtues of its constituents. Suggestions and alterations for its improvement have not in all its factors produced a better compound.

**Formula**—

Best *India Rhubarb*, *Golden Seal*, *Cinnamon*, each **one ounce**;

Refined Sugar, **four pounds**;

Brandy, **one gallon**;

*Oil of Peppermint*, **twenty minims**.

Macerate the *Rhubarb*, *Golden Seal* and *Cinnamon*, in half a gallon of the Brandy for six hours, with a gentle heat, then transfer the mass to a percolator and displace with the remaining half-gallon of Brandy. The remaining strength, if there be any, can be obtained by adding water until the liquor comes off tasteless. To this add one ounce of Carbonate of Potassa, the Sugar and Oil of Peppermint, this last having been previously rubbed with enough Sugar to absorb it, and mix the two liquors. The whole of the active properties of the ingredients may be obtained with more certainty by using Alcohol, seventy-six per cent, instead of Brandy, owing to the great want of uniformity in the quality of the latter.

Because of the possibility of the fermentation of the sugar in the above compound, Professor Lloyd has replaced this and enough of the water necessary to the above solution, with glycerine, preserving the valuable properties of the compound and increasing the field of its action. This preparation is called *Glyconda*, and is given for the same conditions, and in the same dosage as the above.

**Administration**—The syrup is given in doses of from half a dram to half an ounce, usually diluted with considerable water.

**Therapy**—While we advocate the use of single remedies for direct effects, we have obtained such marked results from this combination that we are impelled to teach students its use, especially in children's gastric disorders. A **sourstomach** is always benefited by it. It is specific when the tongue is coated uniformly white, and is broad, and the mucous membranes are pale, when there are eructations of sour gas or vomitings of acid matter. It never fails in these cases. It makes no difference whether there is diarrhea or constipation.

A stomach filled with sour decomposed food can appropriate no medicine, and all specific remedies demand a stomach free from these conditions. This agent neutralizes excessive acidity without liberation of carbonic acid gas; it stimulates and soothes the stomach and promotes normal action. It may be given to neutralize excessive acidity before general medication is begun in any case.

It is the remedy for **children's summer disorders** *par excellence*. It is a safe remedy to use **ad libitum** in the family for deranged conditions of the stomach and bowels.

A tablespoonful, taken by an adult in summer when nausea, colic or diarrhea declare a derangement of the organs of digestion, will usually immediately restore the normal condition. It is palatable and pleasant to children, especially if diluted. In **fevers** or **headaches** from **gastric acidity** the treatment should be begun with this syrup, the indicated remedies being given when excessive gastric acidity is in part neutralized and the normal condition stimulated by the *rhubarb*. It may be added to the vehicle in prescriptions for stomach and bowel troubles of an atonic character.

If **constipation** be present a mild laxative may be added. If much diarrhea is present an astringent, such as *geranium* or *epilobium* will increase its value, and if there is extreme lack of tone, its value is enhanced by the tincture of *xanthoxylum* or *capsicum*. If there are sharp colicky pains, a few drops of the tincture of *colocynth* or the tincture of *ginger*, or even paregoric, or deodorized *opium* in severe cases, will be found valuable. It should be in constant use by every physician in stomach and intestinal disorders common during the heated term.

## **FRAGRANT SUMACH. *Rhus aromatica*.**

Synonym—Sweet Sumach.

### **CONTSTITUENTS—**

Volatile oil, several resins, fat, tannin, gum.

### **PREPARATIONS—**

**Extractum Rhus Aromaticae fluidum**, fluid extract of Rhus Aromatica. Dose, from ten to thirty minims.

**Specific Medicine Fragrant Sumach**. Dose, from five to thirty minims.

**Therapy**—The direct influence of this agent is exerted in certain cases of polyuria. It is said to be specific also to **nocturnal enuresis** in children, and yet our knowledge is not sufficient to define the exact cases, consequently its use is more or less empirical. Benefit is claimed for its use in full doses in all cases where there is *much urine*, without sugar.

This is the case in **interstitial nephritis** as well as in **simple diabetes insipidus**. It is not contraindicated in diabetes mellitus, but is only occasionally of service. Active astringent properties are claimed for it, and yet in this exercise it is different, from ordinary astringents.



In many cases of **urinary incontinence** both in children and in the aged, it will produce satisfactory cures. It apparently acts as a tonic and sedative to the muscular structures of the urinary apparatus, as old people who suffer from a general debilitated condition and are troubled with **dribbling**, have the power to control the urine restored. It should be used freely in such cases, and its influence when specifically defined will give it an important place in the therapeutics of **enuresis**.

It has an influence not to be overlooked in **passive hemorrhages** from the urinary apparatus—**haematuria**, controlling most satisfactorily many cases. It is useful in passive **uterine hemorrhage** and in **pulmonary** and **bronchial** hemorrhage. It is also useful in controlling **night sweats** and the diarrhea of phthisis. The hemorrhage often present in **chronic diarrhea** and **dysentery** is restrained by it, when it checks the action of the bowels also, improving the tone and restoring normal function.

If satisfactory results are not obtained from small doses it may be pushed until sixty-drops are given to an adult.

In **purpura hemorrhagica** it has worked nicely and will often be found useful. It has cured many cases of **leucorrhoea** and of **gonorrhoea** and other passive discharges of a catarrhal character.

## **SUMACH**

### ***Rhus glabra.***

Synonym—Smooth Sumach.

#### **CONSTITUENTS—**

Volatile oil, resin, tannic and gallic acid, albumen, gum, starch. The berries contain malic acid in combination with lime.

#### **PREPARATIONS—**

**Extractum Rhois Fluidum** (A. D.), Fluid Extract of Sumach Bark. Dose, from a half to one dram.

**Extractum Rhois Glabrae Fluidum** (U. S. P.), Fluid Extract of Sumach Berries. Dose, one dram.

**Specific Symptomatology**—Its influence is upon mucous surfaces in a relaxed, ulcerated and phlegmonous, but irritable and intractable condition.

**Therapy**—It is used in **aphthous stomatitis**, both internally and externally, in **gangrenous stomatitis** in conjunction with more active agents, and in **stomatitismaterni** it is a good remedy. It will serve a good purpose in atonic ulcerations of the stomach and intestinal canal, in some cases of prolonged diarrhea and dysentery with greatly debilitated mucous surfaces. Its field is well covered, however, with more active remedies.

## **RHUS.**

### ***Rhus toxicodendron.***

Synonyms—*Toxicodendron radicans*, *Rhus Radicans*, Poison Oak, Poison Ivy.

Locality—North America.

#### **CONSTITUENTS—**

Toxicodendric Acid, fixed oil wax, tannin, mucilage.

#### **PREPARATIONS—**

**Specific rhus tox.** Dose from one-twentieth to two minims.

*(Since Specific Rhus Tox is no longer manufactured, and a simple leaf tincture still retains the Poison-Ivy allergens, this remedy may now a bit of a moot point—too bad. For years I have been reluctant to try it - MM)*

In the preparation of the **specific rhus**, the freshly gathered mature leaves are used. It is at first green in color, afterward light-brown or yellowish. It is volatile, and irritating to many. From two to ten drops in four ounces of water is the usual administration. A tincture of *rhus* is prepared, but it varies according to its manufacture and the quality of the drug used, and is not reliable. Dose, from one-tenth to two minims.

**Physiological Action**—Most persons are poisoned by handling the poison oak and the several poisonous varieties of *rhus*—*Rhus toxicodendron* or *radicans*, *Rhus venenata* and *Rhus pumilium* It causes an erysipelatous inflammation of the skin, the swelling sometimes being so excessive as to obliterate the features, or the body may become so greatly swollen that the person is unable to move. Internally in poisonous doses of the berries it causes drowsiness, stupor, vomiting, convulsions, delirium, dilated pupils, hurried respiration, pulse at first full and strong, finally small, frequent, feeble. Poisoning by an infusion of the root causes a vesicular eruption, burning, in the throat and esophagus, dry, hoarse cough,

nervous twitching and wandering of the mind, constriction of the temples, chilliness, nausea, thirst, debility, faintness and convulsions.

It relieves cerebral engorgement by increasing arterial pressure. In minute doses it acts as a cerebral sedative to the overworked and irritable brain and improves its tone and functional activity. It acts somewhat similarly to strychnine in that it produces increased functional activity of terminal nerve filaments and is beneficial in some forms of paralysis.

**Specific Symptomatology**—In inflammatory fevers with sharp hard pulse; acute inflammation involving the skin, with bright circum-scribed redness, extreme soreness or sharp burning pain; extreme redness of local parts inflamed, with great local heat and sharp pain; sharp supra-orbital pain, especially of the left orbit; burning in the eyes with flushed face; inflammation with constitutional impairment, evidenced by a sharp red tongue and deep red mucous membranes. The tongue has a pointed tip upon which the papillae are elongated and pointed; In subacute or in chronic disease also with the above specific evidences, it is demanded.

The differential diagnostic points between *rhus* and *bryonia*, are that *rhus* is the remedy when the patient suffers, most when warm and at rest, or when the distress is aggravated by heat, while *bryonia* is indicated when the distress is increased by motion. One prominent homeopathic writer is authority for the statement that it has direct influence upon the tendons, sheaths of the nerves and fasciae, hence its influence in rheumatism. Restlessness seems to be a leading indication for *rhus*, as a specific agent. Whether it be a **meningeal irritation** or “**rheumatism**,” the patient shows this same symptom. In many respects in its indications *rhus* is the opposite of *belladonna*.

**Therapy**—The indications for this remedy are present in **acute erysipelas** to a marked degree, especially in erysipelas of the head and face, or that involving loose cellular tissue. If it be given in the first stages of this disease the symptoms abate rapidly. If typhoid symptoms be present in erysipelas it is an excellent agent, its influence being marked upon typhoid conditions. It is useful in **typhoid fever** and in typhoid conditions complicating acute inflammations. It seems to exercise the influence of a special sedative in these cases when *aconite* and *veratrum* are contraindicated. Sordes with dry red tongue and dry mucous membranes, flushed face, bright restless eyes, with tympanites, all demand *rhus*. It soothes the **cerebral irritation** of typhoid; inducing rest and quiet, and controls delirium. It has antiseptic properties also which

antagonize the disease processes within the blood. It prevents disintegration of the red blood corpuscles, and increases the vital powers.

In **scarlet fever**, **measles** and **smallpox** the indications for this agent are often conspicuous, and it will be found of first importance, especially if there be great injection of the conjunctiva, swelling of the palpebrae, extreme lachrymation and photophobia. In the latter stages of these diseases when the skin is livid, the tongue red, or red and glazed, with offensive breath, and offensive discharges, and with failing vitality, it is demanded.

In acute **inflammatory rheumatism** the indications for *rhus* are conspicuous. The agent is often of first importance in this disease. It may be alternated with *aconite* or other suggested remedy for the fever, or if there be deep muscular soreness, with *cimicifuga*. Its value in all forms of rheumatism is great, and cannot be explained on the basis of its physiological action, as the homeopaths obtain excellent results from very minute doses. It is given in chronic rheumatism and to relieve the results of rheumatic inflammation.

In persistent dry, tickling **bronchial coughs** *rhus* is a good remedy, whether they be acute or chronic. It is combined with or alternated with *bryonia* or *aconite* in capillary bronchitis with those characteristic coughs.

Dr. Hurd claims that when **Lagrippe** first made its appearance, the first two cases had a guiding symptom that caused him to give full doses of *rhus tox*. The patient would seize the head with both hands and groan as if he were in agony. This peculiar **frontal headache** was relieved within an hour by this remedy, establishing a line of investigation for its use.

The use of this remedy in small doses, internally, frequently repeated with **rhus poisoning**, has long been advised. The experience of the editor has confirmed the belief that it is of benefit.

When **gastric** or **intestinal disorders** in children induce **cerebral engorgement** with great restlessness and flushed face, the specific tongue, mouth and mucous membrane indications being present, *rhus* is the remedy. These cerebral symptoms may be induced by any inflammatory disease, and successfully cured with *rhus*. In adults they are found in prolonged adynamic fevers, and often are a serious complication. *Rhus* will meet other prominent indications often while

correcting the brain phenomena.

It has an **antispasmodic** influence, preventing **spasms** when induced by cerebral engorgement, or irritation which is of reflex origin or caused by gastric or intestinal irritation, the characteristic indications for the remedy being present. Webster says he values it more highly than *gelsemium* or *lobelia* in infantile convulsions, if its indications are present.

In gastro-intestinal disturbances accompanying the inflammatory conditions over which *rhus* has an especial influence, this agent is a direct sedative. It arrests nervous and reflex vomiting promptly, and vomiting from any cause when the **tongue** is pointed with **reddened tip and edges**. The so-called “strawberry tip” directly suggests *rhus*. In acute abdominal pain, in **cholera morbus**, with extreme vomiting and spasmodic pain, this agent is valuable.

In local inflammations, induration and swelling tending to suppuration, as of boils, felons and carbuncle, the indications point to this remedy, and given internally its influence is often excellent. In ulcerations with red areas and red edges, in scrofulous indurations and ulcerations, it is useful. In eczematous and erythematous conditions it is of value. It is of service in parotitis and in inflammation of the sub-maxillary glands.

This agent must be used continually, and the prescriber must familiarize himself with all its side influences before he can fully appreciate its great value.

In pruritus of the vulva or other localities where there is erythema, with redness, persistent in some cases, especially with blonde children with eczematous tendencies, or children of a scrofulous diathesis, this agent is most prompt and valuable.

There is a form of eczema, usually acute in character with the inflammatory evidences of burning, redness, itching, and perhaps swelling, that *rhus* will quickly cure. The homeopathist advises it for these in the second decimal dilution, five drops every two hours.

In any skin disease where there is violent itching, circumscribed redness, burning, swelling, pain and vesication, especially if fever be present, the condition more or less acute as above mentioned in erysipelas or other skin disorders, this remedy is prescribed with success.

## **RICINUS.**

## ***Ricinus communis.***

Synonym—Castor Oil.

**Part Employed**—A fixed oil from the beans of the Ricinus Communis.

### **CONSTITUENTS—**

The fixed oil, ricinoleic or ricinic acid, ricinolein, palmitin, starch, mucilage, sugar.

### **PREPARATION—**

In the preparation of *castor oil* the seeds are crushed, kiln-dried, and subjected to a powerful pressure to remove the oil, which is heated in water to remove albuminous matters and drawn off into barrels.

Cold-pressed *castor oil*, **Oleum Ricini**, is viscid, nearly or quite transparent, with a mawkish odor and an offensive taste. Dose, from one to eight drams.

**Administration**—The taste of *castor oil* is disgusting to many and unpalatable to all. It is partially disguised when the dose is added to a teacupful of hot milk and well stirred. Hot lemonade or hot coffee disguises its taste to a certain extent. Wine, ale and beer are suggested, probably because of a love for such auxiliaries.

**Therapy**—As a **cathartic** in domestic practice this agent has long taken first rank. Children are susceptible to its action. An inunction of the oil over the abdomen is usually sufficient to produce a full laxative effect in babes. It may be continued from day to day for the cure of **chronic constipation** in young children. A kneading or rubbing of the bowels will stimulate peristaltic action and increase the influence of the oil.

When **nervous irritation** in children occurs with **fever**, from undigested food or irritating substances in the stomach or bowels, a dose of *castor oil* sufficient to produce free evacuation without pain may given at once. Its action will usually remove the irritating causes, and the fever and nerve irritation will quickly subside. **Diarrheas** induced from such causes are at once controlled after its operation. It has a secondary action like *rhubarb*, and constipation usually follows its use or a day or two.

In the treatment of **dysentery** it is good practice to thoroughly evacuate

the bowels with *castor oil* and to follow it with full doses of *sweet oil*. In infants the *sweet oil* alone may be sufficient. If the oil is administered early in the case and followed with the suggested remedies the disease often abates at once.

It seems in itself to exercise a mild sedative effect, not only that it quiets distress in the bowels and removes irritating substances but it promotes quiet and sleep.

It is used in a few cases after surgical operations, after **labor** on the second or third day, and after taking **vermifuges**, and whenever a simple, prompt agent is needed to evacuate the *primae viae*.

## **RUBUS.** *Rubus villosus.*

Synonym—Blackberry.

### **CONSTITUENTS—**

Villosin, tannin, gallic acid.

### **PREPARATIONS—**

**Extractum Rubi Fluidum**, Fluid Extract of Rubus. Dose, from ten to sixty minims.

**Specific Medicine Rubus**. Dose, from five to thirty minims.

**Specific Symptomatology**—The tonic and astringent properties of this remedy are underestimated. It is an acceptable and prompt astringent in diarrheas of infancy, where the evidences of relaxation and enfeeblement of the mucous coats of the stomach and bowels are marked, and where there is deficient action of all glandular organs, especially of the liver, the patient being pale, feeble, without appetite.

**Therapy**—In those cases of diarrhea where there are large, watery, clay-colored discharges three or four times each day, an infusion of *blackberry root* will sometimes correct this entire train of symptoms. A syrup of *blackberry* will also answer an excellent purpose.

## **RUMEX.** *Rumex crispus.*

Synonym—Yellow dock.

## CONSTITUENTS—

Chrysophanic acid, tannin, gum, starch. The petioles of the leaves contain nearly one per cent of oxalic acid.

## PREPARATIONS—

**Extractum Rumicis Fluidum.** Fluid Extract of Rumex. Dose, from ten to sixty minims.

**Specific Rumex.** Dose, from five to thirty minims.

**Therapy—**The alterative properties of this agent are underestimated. It is a renal depurant and general alterative of much value when ulceration of mucous surfaces or disease of the skin results from impure blood. It acts directly in its restorative influence, purifying the blood, removing morbid material, and quickly cures the disease conditions. It is valuable in **ulcerativestomatitis**, in **nursing sore mouth**, and in ulceration of the stomach with great lack of tone, combined with *quercus* or other tonic astringent, it has no equal in these conditions. It has cured exceedingly persistent cases of exhaustive morning diarrhea, the discharges being very frequent between six and twelve o'clock. It has been used also in the treatment of **syphilis** and **scrofula** with good results.

Dr. Vassar of Ohio believes that *Yellow Dock* is the best remedy known to prevent the inroads made by **cancer** on the human system. It is also valuable in **necrosis**, **scrofula**, and **tuberculosis**. I have mentioned the fact that this remedy will absorb iron from the soil very rapidly and carry a much larger proportion than normal, thus rendering the iron organic. Dr. Vassar knew of a blacksmith who raised *Yellow Dock root*, cultivating it in a soil which he kept constantly saturated with the washing from his cooling tubs, and scattered all the iron filings and rust over it. Ellingwood's Therapeutist has often called attention to this property of *yellow dock* and to the positive tonic and alterative influence exercised by it when so saturated with iron.

The above statement of the doctor's is the only one I have been able to find from any but foreign writers that emphasizes the power of *yellow dock* in extracting iron from the soil. It is possible that other inorganic medicines can be made organic in larger quantities by being artificially forced through the growth and development of plants in the natural exercise of their vital powers. The doctor thinks that the preservation of an absolutely normal cell condition of the human body if possible will prevent the development of **cancer**. He uses *Yellow Dock* hypodermically and thinks that there are mild early cases of cancer that can be cured



with this remedy alone.

## **SALIX**

## ***Salix alba.***

Synonym—White Willow.

**CONSTITUENTS**—Salicin, wax, fat, gum.

**Specific Symptomatology**—Sexual irritability with lascivious dreams, sexual erethrism, libidinous thoughts, extreme sexual excitability with uncontrollable desire; erotomania, nymphomania, and satyriasis, prostatitis, with cystic irritation; acute prostatic enlargement, with cystitis, ovaritis, orchitis and other sexual disorders resulting from excess and abuse.

**Therapy**—This to an extent is antimalarial and like the other agents of this class it improves the tone of the gastro-intestinal tract and the glandular organs. It corrects impaired conditions of all mucous membranes and is thus of value in excessive catarrhal discharges from these membranes, being freely given in **bronchorrhea**, **gastric catarrh**, **catarrhaldiarrhea** and in **leucorrhoea**, in all cases acting more promptly if malarial conditions have caused the existing debility. It has antiseptic properties, of course, if antimalarial, and is a good remedy in protracted fevers.

It has a mild influence in controlling **passive hemorrhages**, but cannot be depended upon if they are severe.

Its antiseptic properties are apparent in its ability to correct the fetor of wounds and offensive discharges when locally applied.

Felter and Lloyd, in the American Dispensatory, make the following statement concerning the action of this remedy, which is important. Its field of action in those functional wrongs of the reproductive organs is due most largely to undue irritability of the parts and thought to be less due to mental or emotional causes. However, sexual passion from any functional cause is moderated by it, and it is especially adapted to the disorders of the sexually intemperate male or female and of the youth, subject day or night to libidinous suggestions and lascivious dreams terminating in pollutions, while for those extreme forms of **sexual perversion**, **satyriasis**, **erotomania**, and **nymphomania**, it is more nearly specific than any other agent. Not only does *salix nigra* act as a check to

sexual passion and misuse, but it proves a useful tonic and sedative to many conditions following in the wake of sexual intemperance, among which may be mentioned **spermatorrhea**, in its varied forms, **prostatitis**, **cystitis** and **ovaritis**.

## **NIGRA.** *Salix nigra aments.*

Synonym—Black Willow.

### **CONSTITUENTS—**

Salicin, a glucoside, tannin, wax, gum.

### **PREPARATIONS—**

The **tincture of the aments**, or catkins, of the black willow, have increased medicinal properties over any other part of the tree.

**Specific Salix Nigra Aments.** Dose, from ten to sixty minims. Specific Salix Nigra Aments is a unique preparation and contains the full properties of the drug.

The agent was brought to the attention of the profession through its influence in controlling **sexual hyperesthesia** and undue sexual excitement. It is a remedy for **satyriasis**, **erotomania** and **nympho-mania**, more particularly from local irritation.

It relieves **spermatorrhea** when dependent upon these or similar causes, and quiets the general nervous system. It is a remedy for **ovarian congestion**, ovarian neuralgia and hyperesthesia, also for **ovarian irritation** in hysteria. It will exercise a direct and satisfactory influence in many cases of **hysteria**, overcoming the extreme excitability and nervousness, headache and the **globus hystericus**, and will permit quiet, restful sleep. It will serve an excellent purpose in these cases in combination with general nerve tonics and restoratives, greatly enhancing their influence.

## **SAMBUCUS.** *Sambucus canadensis.*

Synonym—Elder

### **PREPARATIONS—**

**Specific Sambucus.** Dose, from two to ten drops.

**Therapy**—The strong infusion is diaphoretic and stimulating. The agent has also alterative, cathartic and diuretic properties which are of value in urinary inactivity, with excretion of renal sand, accompanied with muscular aching, stiffness, or rheumatic pains.

A strong infusion is sometimes of great service in removing **dropsical effusions**. Cases are reported in which extreme general dropsy seemed to threaten immediate death, where relief was quickly and permanently obtained by the use of this remedy.

## **SANGUINARIA.**                      *Sanguinaria canadensis.*

Synonym—Bloodroot.

### **CONSTITUENTS—**

Sanguinarine, chelerythrine, protopine, citric and malic acids.  
Dose: Its best medicinal influence is obtained from small doses; from ten to twenty drops in a four ounce mixture, a teaspoonful every hour or two.

**Physiological Action**—In excessive doses *bloodroot* is a gastric irritant, and a depressant; it produces burning and racking pains in the digestive canal from the mouth to the stomach; insatiable thirst, dilated pupils, nausea, an anxious countenance, coldness of the extremities, cold sweats more or less diminution of the pulse, with irregularity.

**Specific Symptomatology**—The influence of *sanguinaria* is restricted to rather narrow lines. In harsh, dry cough with relaxed tissues of the pharynx, larynx and bronchi, with a sense of constriction and constant irritation and uneasiness or tickling in the throat, this agent is useful.

**Therapy**—It is a tonic and stimulant to the bronchial membranes. It stimulates the capillaries and overcomes **congestion** of the **lung** structure, after a severe cold in the chest from exposure. An improvised syrup made from adding a dram of the tincture of *sanguinaria* and two drams of vinegar to two ounces of simple syrup will relieve the chest sensations quickly if taken in teaspoonful doses every half hour or hour.

It is not as useful a remedy in diseases of children as *ippecac* or *lobelia*, as the harshness of its action in full doses is not well borne. If combined with either of these agents, and given in small doses for exactly the same purposes for which they are suggested, it will furnish the tonic and stimulant influence of the combination. There will be less nausea from

the *ipecac* and less general relaxation from *lobelia*. Given with the syrup of *ipecac* in hoarse **bronchial coughs**, or **stridulous laryngitis**, or in the early stage of croup, it will enhance the expectorant influence of *ipecac*, and prevent, in part, the cold skin and depressing influence of that agent. It equalizes the circulation of the entire system, inducing warmth in the skin and in the extremities.

In **membranous croup** its use is an excellent auxiliary to the treatment, but it is not to be depended upon alone. It may be given in small doses, not sufficient, to produce emesis, until the membrane is separated, then the dose may be increased until the membrane is removed.

It is a good remedy in **atonic conditions** of the lungs or bronchi with imperfect circulation and relaxed mucous membranes, with general inactivity of the nervous system and lack of nerve force. It should not be prescribed during active inflammation, but will be of service when the more acute symptoms have abated.

It will assist in overcoming **hepatization** of lung structure and restoring normal tone and normal functional action. The powdered drug in small doses in a capsule, may be combined with *hydrastis* or quinine with excellent effect when those agents are indicated as restoratives.

It is said to act upon the stomach, liver and portal circulation, as a stimulant, and to the glandular organs and structures of the intestinal canal, and to exercise an alterative influence within the blood.

The tincture in full doses, is an **emmenagogue**, restoring the menses when suppressed from cold. It is not to be given if menstrual deficiency is due to anemia, although it is tonic and stimulant in its influence upon the reproductive organs.

The powdered *sanguinaria* is applicable to suppurative conditions. It is useful in **otitis media** and in **ozoena**.

The nitrate of *sanguinaria* is a soluble salt, as useful and less irritating than any other form of *sanguinaria*. It is valuable as a local application to **indolent ulcerative conditions**. It should be used in small quantity in ointments, or in solution as a lotion. It is serviceable in chronic **nasal catarrh**, in chronic ulcerations of the throat, and in **fissures** and ulcerations of the **anus**. It will act in this concentrated form as an escharotic and is of much service as an application to **epithelioma**, **lupus**

and to other growths of a similar nature.

**SANDALWOOD.**                      *Santalum album.*

Synonyms—Yellow Saunders, White Saunders.

Part Employed—The wood.

**PREPARATIONS—**

**Fluid Extract of Sandalwood**, not miscible with water. Dose, one-half to two fluid drams.

**Sandal Oil**, dose, ten minims.

**Administration**—The *oil of sandalwood* is administered in doses of from ten to fifteen or even twenty minims three times daily. It is best given in a capsule, and soft gelatine capsules are prepared filled with the oil. It is also given in emulsion, but there are objections to this method of administration.

**Therapy**—The oil *of santal* is of service in the treatment of sub-acute and chronic inflammations of mucous surfaces, especially those wherein there is excessive secretion. In **catarrhal bronchitis** it is beneficial, quickly allaying irritation and reducing the excessive discharge.

It is in more general use in the treatment of **gonorrhoea** after the subsidence of the acute or active inflammatory phenomena. It will be found of service in the treatment of protracted cases, and in gleet.

**SAPIUM.**                                      *Sapium salicifolium.*

Synonym—Yerba de la flecha.

**PART EMPLOYED**—The root, bark and leaves.

**LOCALITY**—Mexico, New Mexico and Arizona.

**PREPARATIONS—**

**Powdered Root.** Dose, from one-half to one grain.

**Fluid Extract.** Dose, from one to five minims.

**Infusion.** Two ounces of the root to one pint of water. Dose, from twenty to thirty minims.

**Physiological Action**—In large doses it is poisonous, produces dysentery, vertigo and death from prostration and nervous exhaustion.

*Sapium Salicifolium* is an energetic cathartic and diuretic, produces copious liquid discharges without griping. In minute doses at intervals of four hours it stimulates the torpid liver up to its normal action, also increases the flow of urine and exerts a direct influence on the kidneys and urinary passages.

**Therapy**—In **bilious colic** caused by presence of calculous matter, *sapium salicifolium* combined with mono-bromated camphor promptly dislodges the gravel, calms the nervous system and quiets the distressed stomach.

The principal advantage the drug has over other cathartics and diuretics is its superior efficacy, its pleasing taste, besides its antilithic properties; the agent is not widely known. The small and pleasant dose and kindly action will give it a place as an efficient cathartic, if the above statements are confirmed.

## **SARRACENIA**

## ***Sarracenia purpurea.***

Synonyms—Pitcher Plant, Sidesaddle Plant, Fly Trap, Water Cup.

### **CONSTITUENTS—**

Sarracenin, a resin, sarracenic acid.

### **PREPARATIONS—**

**Specific Sarracenia.** Dose, from two to twenty drops.

**Tincture Sarracenia.** Dose, one dram.

**Physiological Action**—The agent is laxative, stimulating the action of the intestinal glands and the liver and overcoming torpidity. It stimulates the kidneys, inducing an abundant flow of limpid urine. It is an active eliminating agent, exercising a special influence upon the glands of the skin.

**Therapy**—As a remedy in the treatment of **zymotic disease** this agent has been used with good results. It is given freely during the course of **scarlet fever**, **measles** and **small-pox**, and it is claimed that in every case it modifies the character of these diseases, shortens their course, and prevents sequelae. It has, as yet, no established place in therapeutics.

## **SAXIFRAGE.**

## ***Saxifraga pennsylvanica.***

Synonyms—Tall Saxifrage, kings' evil root, scrofula bush.

**Specific Symptomatology**—It is specific as an alterative in **syphilitic affections** of the **eyes**. In glaucoma, in iritis, in ophthalmia, in cataract from syphilitic causes, our doctors have had the most marked results from the use of this remedy. Dose, F. V. Ext., from 20 drops to one dram.

The agent is an active diuretic and an excellent tonic, as well as possessing active alterative or antiscorbutic properties.

## **SCILLA**

## ***Scilla maritima.***

Synonym—Squill

### **CONSTITUENTS—**

Scillitin, skalein, calcium oxalate, sinestrin, scillipicrin, scillitoxin, scillin.

### **PREPARATIONS—**

**Acetum Scillae**, Vinegar of Squills. Dose, from five to thirty minims.

**Extractum Scillae Fluidum**, Fluid Extract of Squills. Dose, from one to five minims.

**Syrupus Scillae**, Syrup of Squills. Dose, from half an ounce to two ounces.

**Therapy**—This agent is best known for its action upon the mucous membrane of the respiratory tract. It increases expectoration and is actively nauseating.

For this effect it is given in severe **bronchialcoughs** without secretion, in dry, harsh **irritating coughs**, the sputum scanty and tenacious. It has a soothing influence over bronchial irritation.

**Squill** is an active **diuretic**. Given in non-inflammatory conditions where there is lack of tone, reflection of the mucous membrane, with debility, it stimulates the entire urinary structures. It has long been given in dropsy for the removal of the fluid, its action being prompt and efficient, partly because it stimulates the action of the heart, improves the circulation

and strengthens the pulse.

It may be given in conjunction with *apocynum*, *digitalis* or *crataegus*, with all of which it acts harmoniously.

## **SCROPHULARIA.            *Scrophularia nodosa.***

Synonyms—Carpenter's square, Scrofula plant, Figwort, Heal-all.

### **CONSTITUENTS—**

According to Prof. Lloyd, there is present an alkaloid, a fixed oil, and a brown amorphous resin. From the alcoholic extract all amorphous, yellow powder has been obtained, which has some of the properties of *digitalis*.

### **PREPARATIONS—**

A **fluid extract** is prepared, and a **tincture**. **Specific scrophularia** may be given in doses of from five to thirty drops.

**Specific Symptomatology**—Marked evidences of **cachexia**. Depraved blood from any cause: **glandular disorders** of a chronic character, accompanied with disease of the skin. **Ulcerations, eczema, excoriations** from chronic skin disease. Those cases in which there is a peculiar pinkish tint, or pink and white tint to the complexion, with puffiness of the face, with full lips of a pallid character, are benefited by this remedy.

**Therapy**—The agent is administered in that class of cases, with the indications named, where a pure blood alterative is demanded. Its influence is perhaps more general than that of some of the better known remedies, but demands more time in the accomplishment of its results.

In disease of the glandular organs, resulting in dyscrasia; in general **scrofula**, in some cases of **secondary syphilis**, in depraved conditions of the system, where dropsy follows the remedy is demanded. Gross claimed that it was especially curative where from blood dyscrasia, ulceration would readily follow contusions, or wounds would not heal readily. It has been used to correct **difficult menstruation** and restore the **lochial discharge**. In the form of all ointment, it is applied to glandular inflammations, especially those of the mammary gland, and testicle, to bruises, ring worm, piles and chronic, painful swellings or enlargements. The agent should have more general use.



## SCUTELLARIA.

## *Scutellaria lateriflora.*

Synonyms—Scullcap, madweed, hoodwort.

### CONSTITUENTS—

A bitter principle (crystalline glucoside), volatile oil, fat, tannin, sugar.

### PREPARATIONS—

**Extractum Scutellariae Fluidum**, Fluid Extract of Scutellaria. Dose, from five to thirty minims.

**Infusum Scutellariae**, Infusion of Scutellaria.

**Specific Scutellaria**. Dose, from one to ten minims.

The remedy is usually prescribed in the form of the specific medicine. The normal tincture is very satisfactory, and in some cases scutellerin is the best form of the remedy to give. The glucoside in granules, which contain one-twelfth of a grain, will produce good results.

**Specific Symptomatology**—French advises this remedy for two distinct lines of specific phenomena. The first is where there is irritability of the nervous system, with restlessness and nervous excitability; inability to sleep without pain; general irritability with insomnia from local physical causes. The second is where there is nervous disorder, characterized by irregular muscular action, twitching, tremors and restlessness, with or without incoordination. These symptoms are found in **chorea**, **paralysis agitans**, **epilepsy** and **delirium tremens**. Its soothing influence continues for a protracted period, after the agent is discontinued. It is not a remedy of great power, but when indicated is of much service.

Its specific nerve sedative properties were those observed by the older writers who obtained this influence from a strong infusion which without doubt will yield results not obtained from small doses of the finer pharmaceutical preparations.

**Therapy**—Its soothing influence upon the nervous system conduces to quiet and **restful sleep**. In large doses in **delirium tremens**, it is a sufficient remedy. Its influence will be enhanced by combining, it with **capsicum**, the tincture of **red cinchona**, or some other non-alcoholic stimulant. Combined with **cimicifuga**, the value of both these agents is increased in their adaptability to **chorea**.

In restlessness, or in **nervous excitability** producing insomnia, and in prolonged fevers, it promotes sleep and at the same time stimulates the skin and kidneys to increased activity. Its soothing influence is retained after the agent is discontinued. The agent was at one time supposed to exercise an influence over the spasms of hydrophobia, but it is doubtless too feeble for such a purpose.

## CACTUS

### *Cactus grandiflorus*

Synonyms— *Selenicereus grandiflora*, *Cereus Grandiflorus* (Haworth); Night-Blooming Cereus; *Cactus Grandiflorus* (Lin.).

#### PREPARATIONS—

**Extractum Cacti Fluidum**, Fluid Extract of Cactus. Dose, from one to twenty minims.

**Tinctura Cacti**, Tincture of Cactus. Dose, from five to thirty minims.

**Specific Medicine Cactus Grandiflorus** is prepared from the green stem of the true species. The dose is from one-third of a minim to five minims. This is a reliable preparation. Although the medicinal effects may be obtained from two minims, larger doses may be given, no toxic effects having been observed.

The dose of *cactus*, usually prescribed in the past, has been small, generally not to exceed five minims. A foreign writer has made some observations in **aortic lesions**, with faulty compensation. He believes that *cactus* is distinctly specific for these lesions, but he advises it in much larger doses. He gives half a dram if necessary three times a day. The patients treated in this manner had great **dyspnea**, **arrhythmia**, with edema of the extremities and ascites. He demonstrated the recession of the cardiac dilatation in these cases.

**Physiological Action**—This remedy increases the musculo-motor energy of the heart, elevates arterial tension, increasing the height and force of the pulse wave. This is accomplished by increased heart action, stimulation of the vasomotor center, and stimulation of the spinal-motor centers, increasing their activity and improving the general nerve tone. It is the heart tonic par excellence, as it produces stimulation from actually increased nerve tone, through improved nutrition of the entire nervous and muscular structure of the heart. It produces no irritation of the heart muscles like *strophanthus*, or gastric irritation or cumulation like *digitalis*.

*Cactus* exercises a direct influence over the sympathetic nervous system, regulating its action, restoring, normal action, whatever the perversion. It acts directly upon the cardiac plexus, regulating the functional activity of the heart.

Investigations have proven that it increases the contractile power and energy of the heart muscle, through the intercardiac ganglia and accelerator nerves. It certainly improves the nutrition of the heart, as we have noticed the entire removal of progressive valvular murmurs after its continued use.

**Specific Symptomatology**—An irregular pulse, feebleness of the heart's action, dyspnea, weight, oppression in the chest, violence of the heart's action, depending upon atonicity or enervation, and a sensation of a constriction or band around the heart or around the chest, are the direct indications for its use in heart troubles.

**Therapy**—This agent is prescribed where the **heart muscle** is **enfeebled**, where there is **progressive valvular inefficiency**, with irregular or intermittent pulse. It is valuable in **mitral** or **aortic regurgitation** from whatever cause.

It is an exceedingly useful agent in **functional irregularity** of the heart, however evidenced, if due to gastric irritation, as the agent in doses of from one to three minims, soothes gastric irritability and imparts tone and improved function, in wide contrast to *digitalis*, which irritates the stomach.

The action of *cactus* with *nux vomica* and *hydrastis* in the treatment of functional palpitation, depending upon an atonic condition of the stomach, must be emphasized. If extreme acidity be present, they may be combined with an alkaline agent or with neutralizing cordial (glyconda). A number of our physicians recognize this influence, and my own experience confirms its value.

Those who have used all the heart remedies unite in the belief that for breadth of action, for specific directness, for reliability and smoothness and general trustworthiness, *cactus* takes preference over all the rest. Its influence is admirable where indicated and it is invaluable in many cases. Other remedies in some cases will do as much in single lines, but none will do more, and none will exercise all of its desirable influences.

The writer has given it in valvular troubles, in weak and irregular conditions, depending upon muscular enervation, and in aortic regurgitation, and has seen cures accomplished that had been thought impossible. It permanently strengthens the muscular action of the heart.

The author's experience with this remedy caused him to come to the conclusion a few years ago that *cactus* had a **special sedative** influence where indicated. He was convinced of the fact ultimately and now finds excellent authority for his conclusion. Rubini, of Naples, claims that it is almost the counterpart of *aconite* in its action, differing in that it increases the strength and tone of the nerve centers instead of paralyzing them, as large doses of the latter agent does. Given a condition in which there is a rapid and feeble pulse, weak heart, weak and exhausted nervous system, *cactus* in small doses, frequently repeated, is a true sedative.

*Cactus* as a powerful nerve tonic can be relied upon when there is any irregularity of the heart, demanding such a remedy in conjunction with general nervous weakness. It is especially indicated where there is mental depression with despondency and forebodings. It is combined with *avena*, *nux* or *cimicifuga* as I have often suggested with superb results. The above named combination will act as a tonic in a surpassing number of cases of nervous weakness without regard to the specific indications. It improves the nutrition of the brain by improving the circulation in that organ. In this it is of advantage in some cases of **neurasthenia**, especially in those in which there is a sensation of a band or cord around the body or chest or head, a symptom often spoken of in nervous exhaustion, and in forms of **paralysis**. Where feebleness is the cause of **nervousexcitement**, *cactus* exercises a nerve sedative influence. In oppressive **headache** in the top of the head, causing nervousness, common to ladies at the menopause, resulting from irritation in the pelvic organs, or congestion, or menorrhagia with excessive losses of blood, it is of benefit.

Where there is increased arterial tension, and exaltation of nerve force and excess of strength in the cardiac action, *cactus* is contraindicated. This is true in prescribing it for heart disease and palpitation. We have had several cases of palpitation, depending on exaltation of nerve energy, increased by *cactus*, and decreased by *gelsemium*, *cimicifuga* or the bromides.

It may be given with excellent results combined with *avena sativa* in **impotence** accompanied with general nervous exhaustion, or in combination with *avena sativa* and *saw palmetto* in the feebleness and impotency of approaching age, or in the prostration following habits of dissipation, when it will accomplish most excellent results.

It is given in **endocarditis** and in **pericarditis** following exhausting diseases as sequelae, With the most gratifying results.

In a marked case of endocarditis following measles, with purple and bloated countenance, distressing dyspnea, and a pulse so rapid, feeble and fluttering that it could not be counted, the dyspnea was overcome, the heart beats reduced to 120, and regular, and every condition improved in the most satisfactory manner in twenty-four hours, incredible as it may seem, by the use of one drop of the fluid extract of *cactus* every hour.

It is useful in **valvular incompetency** due to muscular weakness, in the feeble heart action following **pneumonia**, **typhoid** and other severe and prostrating diseases. In the feeble heart of exophthalmic **goitre**, it will do all that is expected of *strophanthus*.

Dr. Lydia Ross, of Massachusetts, in the Eclectic Review, reports extensively concerning the action of *cactus* in the **disorders of women**. She claims it to be specific in that form of **oppressive headache**, occurring upon the top of the head, not uncommon at the menopause, resulting also from uterine malposition, or congestion.

It is especially valuable in the **hot flashes** which are so disagreeable during the climacteric. Small doses of the remedy are advisable at that time, and their influence is often a surprise in controlling this otherwise intractable condition. *Helleborus niger* is an excellent remedy for this condition and they may sometimes be given in conjunction or in alternation. The melancholia, nervousness, irritability of temper, hypersensitiveness, neuralgia, vague fears and fancies, present during the menopause, are all influenced favorably by *cactus*. Its direct influence in strengthening the nervous system, and in toning the heart and circulatory organs, underlies its influence upon these conditions.

Other conditions common to women, relieved by this remedy, are **cerebral congestion**, with weight and pain in the occiput, or in the vertex, **numbness** of the **limbs**, **cough** at the supra sternal notch, pain

behind the sternum, **fear of death**, general **plethora** and congestion. Irregularities of the menses, consisting of a flow too early, too dark and thick, too abundant—a flow which ceases upon lying down, with an inability to lie upon the left side, demand its use.

In **cardiac weakness** of a less chronic or more acute character than those conditions affecting the aorta, the agent will be found serviceable, as in the threatened heart failure, due to violent over-exercise, as the **bicycle heart**, a condition not as common as it was when this work was written. It is of great value, as we have previously stated, in the **tobacco heart** of the cigarette fiend or inveterate smoker. Here it is especially useful. We know of no remedy that will take its place. In the treatment of **heart weakness**, common to **masturbators**, and in the feeble heart of the aged, where there are no great organic changes, the remedy is especially advised.

The specific point present in nearly all of these cases indicating the remedy is a vise-like band around the organ affected. It may be the chest, or the stomach, or the heart, bladder, uterus or vagina, or it may be around the body. There is likely in the severe cases to be suffocation, faintness, cold perspiration and great fear of impending danger. If with the above symptoms, there be epistaxis, hematemesis, or hemorrhage from any organ or part, the agent is demanded.

Dr. Lyman Watkins confirms most of the statements made by Dr. Lydia Ross in its use in **hysterical conditions**, and as a remedy to relieve the functional disturbances which the heart exhibits, from menstrual disorders. He believes it to be a most valuable remedy in the rapid and feeble heartbeat of anemia and chlorosis, greatly facilitating the influence of other indicated remedies. He reports a case of a gentleman of thirty who was suffering from cardiac irregularity of a mild type, accompanied with a persistent and almost excruciating pain in the deep muscles of the back, over the region of the kidneys. Morphine and **opium** had been given persistently, for this severe pain. **Cactus** given for the heart symptoms relieved the pain permanently, in a very short time.

Dr. Coffin, of Indianapolis, uses this remedy to overcome subnormal temperature. He believes that it will prove a satisfactory remedy. I have used it in a few cases with good results, but unless given in large doses it will have to be given in conjunction with strychnine, **nux vomica**, or **ignatia**.

Dr. Felter reported in the Gleaner in 1907 a case of Raynaud's disease

where six drops of *specific cactus* was given as a nerve sedative with curative results on the real disorder. He was greatly impressed by the action of the agent. It may be combined with *cimicifuga* or *gelsemium* for nervousness, with *pulsatilla* for hysteria, and may be given with an alkaline remedy in very feeble old ladies who suffer from vertigo and general heart feebleness.

One doctor reports an increase of temperature from ten drops of *cactus* three times a day. Where there is a nervous hyperesthesia with excitable heart action *cactus* will aggravate the symptoms, I believe, whatever they may be.

*Cactus* in the treatment of heart trouble where there is epilepsy as previously referred to, was fully enlarged on by a writer in the Eclectic Medical Journal for April, 1912. While the remedy is not always used alone in the treatment of epilepsy, it was cured. The doctor believes it to be a very important auxiliary.

*Cactus* has been advised in the treatment of car sickness and in sea sickness. It might be combined with advantage with *gelsemium* or the bromides. It has also been given in the treatment of morphine habit, but the case reported by Dr. Cox took cactin tablets. Its action in this line should be observed.

Dr. Carey, of Ohio, gives *cactus* with *strophanthus* in combination in cases where the circulation from heart fault is very imperfect, three or four drops of each.

## **SENECIO.**

## ***Senecio aureus.***

Synonym—Life Root.

### **CONSTITUENTS—**

A bitter, acid principle, tannin, mucilage.

### **PREPARATIONS—**

**Extractum Senecionis Fluidum**, Fluid Extract of Senecio. Dose, from half a dram to one dram.

**Specific Medicine Senecio.** Dose, from one to forty minims.

**Physiological Action**—Its specific influence is exercised upon the reproductive organs of the female, whether there be **amenorrhea**,

**dysmenorrhea, menorrhagia or metrorrhagia**—a disordered condition of the uterine functions—it is regulated by this agent; a general out-of-tone condition of the uterus or appendages, a relaxed condition of the supports to the womb, resulting in mild forms of displacement. It may be given between or during the menstrual periods. In a general hyperaemic, irritable and atonic condition of the pelvic organs, it works to the best advantage. The results are not immediate, but they are marked when they do occur.

It is of value in engorged, **atonic conditions** of the **male sexual organs** also; it increases functional activity, and is of value in **impotency**, although but mildly so. It is a reliable diuretic. It adds tone to, and increases the function. of the urinary apparatus, and overcomes urinary irritation; in stranguary it has a direct influence.

**Therapy**—The agent is specifically a **tonic** to the nervous and muscular structure of the **reproductive organs** in the **female**. It regulates the **periodical discharges**, overcoming irregularity in the quantity of the monthly flow. It will render valuable assistance in the permanent cure of **leucorrhea**. It removes the sensation of weight and engorgement experienced by many ladies in pelvic disorders, especially accompanying uterine displacements, giving great relief.

It will be found of value in **gonorrhoea, gleet and prostaticorrhoea**, and also in the sexual irritability, and impotence of the male.

**Senecio** has an influence on the mucous surfaces, relieving congestion and correcting catarrhal disorders. It **assists digestion**, stimulates the secretion of gastric fluids and overcomes the conditions which cause the food to lie heavily in the stomach. In the accumulation of frothy saliva it is useful and in a constipation accompanying uterine disorders it is especially valuable.

The agent has exercised an active influence in a number of cases of **capillary hemorrhage**. It has been given in **haematuria** in spoonful doses of the fluid extract, three or four times a day, with positive results. In **albuminuria**, with occasional attacks of haematuria, especially if occurring during pregnancy, the agent will act promptly. In hemorrhage of the lungs, or from the stomach of a passive character, it will work well. In **menorrhagia or metrorrhagia** it is directly indicated.

**Co-operatives**—In acts in harmony with **viburnum, helonias, aralia,**



*mittella repens*, and other agents of this character.

## **SAW PALMETTO.                    *Serenoa serrulata.***

Synonym—*Sabal serrulata*.

**Specific Medicine Saw Palmetto.** Dose, ten drops to one dram.

**Physiological Action**—The attention of the profession was called to this palm by Goss and others, from its superior fat producing properties in animals. It was observed as soon as the berries matured that the animals which fed upon them grew very sleek and fat. Read noticed the marked healthfulness of these animals, and concluded to try the berries as a medicine. As a result he found them to improve the digestion, increase the flesh, strength and weight, and steadily relieve irritation of mucous structures, especially those of the nose and air passages. Subsequent observation has proven the remedy to be a tonic of much power in stimulating the nutrition of the nerve centers, upon and through which it operates.

It relieves irritability of the entire nervous system and soothes local irritation. It stimulates digestion, greatly improves the appetite, and encourages assimilation.

As stated, it influences the mucous structures of the nose, throat and bronchi in a remarkable manner, overcoming catarrh and restoring normal function.

**Specific Symptomatology**—The direct influence of this agent is exerted upon the entire **reproductive apparatus**, especially upon the prostate gland of the male. It is demanded in **enlarged prostate**, with throbbing, aching, dull pain, discharge of prostatic fluid, at times discharge of mucus, also of a yellowish, watery fluid, with weakened sexual power, **orchialgia**, **epididymitis** and **orchitis**, when associated with enlarged prostate. In women, **ovarian enlargement**, with tenderness and dull aching pains, weakened sexual activity, and small, **undeveloped mammary glands**, are much benefited by its continued use.

**Therapy**—It is a sedative to all irritable conditions of these organs, and is a profound nutritive tonic, operating much like phosphorus. It **increases the size** and secreting power of the **mammary glands** where they are abnormally small and inactive. It improves the tone, and overcomes

irritability of the ovaries, relieving **dysmenorrhea** when due to atonicity. It may be given with confidence in wasting of the testes in the early stages, and the author has retarded the development of varicocele and has developed the growth and nutrition of the testes materially by its use.

To this agent is ascribed considerable power in reducing the size of **hypertrophied prostate** in old men, and in quickly relieving cystic and other disorders incident to this condition. In the writer's hands it has produced no marvelous cures of this disorder, but it has been of assistance to other measures and could not be well dispensed with. It relieves irritation of the bladder to a satisfactory extent, correcting the irritable character of the urine, increases the muscular power of the patient to expel the urine and produces a sense of relief, that is in every way gratifying and satisfactory.

In the treatment of **impotence** in young men who have been excessive in their habits, or have masturbated, it can be relied upon with positiveness. It will overcome the excitability from exhaustion and increase sexual power in those newly married who, having been anxious concerning their sexual strength or ability, have become suddenly almost entirely impotent after marriage. If the patient is instructed to abstain, for from four to six weeks, and to have confidence in his ultimate recovery, this agent in doses of from twenty to thirty drops three or four times daily, combined with a direct nerve tonic, such as *avena sativa* in doses of fifteen drops, or the one one-hundredth of a grain of phosphorus, will establish a cure. It will relieve any undue irritation, due to excess and exhaustion, that may be present in any part of the genito-urinary apparatus.

This agent is a remedy for **sexualneurasthenia** or sexual perversion with nerve exhaustion, a condition often overlooked in diagnosis, but quite common, one which follows onanism more often than any other habit. Its use should be persisted in for weeks, in the treatment of this form of nerve exhaustion, and if combined with *avena sativa*, the phosphates, strychnia, or the tonic gold salts, and abstinence enforced, a cure will result more readily than with all the rest without it.

An exceedingly important use for this remedy that I have not been able to find in the books, is its use for **sterility**. In simple cases where there is no organic lesion on the part of the patient, this agent has an excellent reputation for restoring the ovarian action properly and assisting in putting the patient into an excellent condition. One conscientious

reliable lady physician assures me that in five definite cases, pregnancy has followed the use of this remedy where sterility was pronounced previously, and thought to be incurable.

The, late Dr. E. M. Hale in his little work on this remedy said:

“I consider saw palmetto one of the most effectual uterine remedies.”

“I believe it will be found, if administered early, to be the chief remedy in **metritis**, pelvic **cellulitis** and **peritonitis**, **salpingitis**, **ovaritis**, **puerperal fever**, appendicitis (giving first teaspoonful doses of pure olive oil every half hour until the pain is relieved, which seldom requires more than five or six doses.) It is also valuable in perityphlitis and proctitis, especially if the prostate gland is involved.”

In its influence upon the **nasal** and **bronchial mucousmembranes** this agent has been given with excellent advantage in the treatment of **acute catarrh**, **chronic bronchial coughs** of all characters, including **whooping-cough**, **laryngitis** and the **cough of phthisis**. It is credited also with cures in the treatment of aphonia.

## **CARDUUS.**

## ***Silybum marianum.***

Synonyms—*Carduus marianus*, St. Mary's Thistle, Mary Thistle, Milk Thistle.

### **PREPARATIONS—**

A **strong tincture**; dose, from two to twenty drops.

The **Homeopathic mother tincture**, dose from one to twenty drops.

This remedy was spoken highly of by Rademacher, in hemorrhages, where there was congestion of the liver or spleen. Where there was periodical biliary lithiasis. He employed the tincture of the seeds, in **dysuria**, where there were **carunculargrowths**, in the female urethra. He claimed it to be of value in hemorrhoids, and in venis stasis. *Carduus* has been frequently advised in the treatment of **varicosed veins**. Its influence in this line must be studied. This condition has been neglected by internists, they having been taught that it was a surgical condition only.

Tripier used in it pelvic congestions, with quick and permanent results. Its action has seemed to be similar to that of *hamamelis* and *collinsonia*. A case of **chronic hematuria**, with sensation of weight and tension in the

pelvis depending upon varicose conditions of the rectal veins, was quickly relieved by it.

**Specific Symptomatology**—Felter and Lloyd say that its indications are found in dull aching pain over the spleen, which passes up to the left scapula, associated with pronounced debility and despondency, splenic pain, with no enlargement or with enlargement, when there are no evidences of malaria. Congestion of the liver, spleen and kidneys. General bilious conditions accompanied with stitches in the right side, with hard and tender spots, in this locality, gall stone, jaundice, hepatic pain and swelling. Also in the vomiting of pregnancy when these organs are complicated.

As it overcomes congestion within the pelvis, it is useful in certain forms of **dysmenorrhea**, **amenorrhea**, or irregular passive uterine hemorrhages.

**Therapy**—Harvey, in the California Medical Journal, says the indications are so plain that a tyro can prescribe it with certainty. It is indicated where there is venous stasis, the true veins enlarged and clogged with blood. This is true of either the large or small veins. He says he cured one case, where the veins from the hips to the toes were as large and as hard and twisted as Manila rope. They could be felt through the clothing. He cured completely a varicose tumor in the popliteal space. It was about four inches long, and three inches wide. The skin of the neck and hands was discolored. There was a troublesome chronic cough with the expectoration of large quantities of offensive matter. He believed these symptoms to be associated with disease of the spleen. He had observed these colored spots in other cases, and sometimes found long continued soreness and tenderness of the joints of the feet. *Carduus*, in five-drop doses three or four times a day, cured all the symptoms in this case, restoring the patient to perfect health. The remedy acts slowly and must be persisted in.

## **SINAPIS.**

## ***Sinapis nigra, Sinapis alba***

Synonyms—Mustard, white, black or yellow Mustard.

### **PREPARATIONS—**

**Powdered Mustard.** Oil of Mustard. Dose, from one-twentieth to one-tenth of a minim.

### **CONSTITUENTS—**Volatile oil.

**Physiological Action**—Mustard is emetic, stimulant and actively revulsive with marked anodyne properties. Its application to the skin produces intense burning, violent inflammation, and if persisted in too long, sloughing or ulceration. Taken into the stomach in large quantities, if emesis be not produced, it causes a burning sensation and a mild form of gastritis.

**Specific Symptomatology**—For external application it is indicated in **acute** cutting **pain** local in character, usually intermittent and usually present as the result of rapidly developing acute inflammation, but dull, steady and constant pains or soreness, slowly developing and persistent, are not readily relieved by its application. *Turpentine* externally is of service in these cases.

Internally it is indicated to excite vomiting when non-corrosive poisons have been taken, when a foreign body is lodged in the esophagus, or when there is great distress from an overloaded stomach.

**Administration**—In the use of *mustard* for counter-irritation, in cases of acute pain, it is desirable to obtain its sharp effects as quickly as possible. In order to do this, a fresh article should be procured, one in which the pungency is sharply indicated by its action on the nostrils and eyes, since *mustard* kept in a paper package on the shelves for weeks is inert from loss of the volatile oil. Vesication must be avoided, as the blisters thus caused are of no advantage, and exceedingly painful and difficult to heal. The white of an egg rubbed up with *mustard* and a little water, will produce a poultice which will not readily blister.

When mild counter-irritation only is desired, which is to be prolonged for some hours, a poultice is made in the proportion of one part of *mustard* to four or six of linseed meal or flour. This is not, however, effective in acute pain, but only where there is soreness or prolonged distress. *Vinegar* and *mustard* also make a good poultice for prolonged use, as *vinegar* destroys an excess of activity of the *mustard*.

For a hot *mustard* pediluvium, a tablespoonful of the powder is stirred into a gallon or two of hot water, in which the feet are immediately immersed.

For a general *mustard* bath, two or three tablespoonfuls of *mustard* are mixed in a full bath. For a child one tablespoonful will be sufficient, care being taken to protect the eyes of the patient from the vapor.

**Therapy**—A teaspoonful of mustard in a bowl of warm water will produce active and immediate **emesis**. This should be followed by another bowl of warm water alone, which will continue the evacuation and wash out any remaining *mustard*, as even then the burning sensation from the local effects of this substance with a few patients is hard to bear. Emesis must be obtained as soon as possible after the ingestion of the *mustard*. An emetic dose must not be allowed to remain in the stomach, as inflammation may follow.

*Mustard* has but little therapeutic influence when administered internally. It does not seem to increase the tone of the gastro-intestinal canal, or promote the action of the secretory or excretory glands, or assimilative organs, to any great extent, but its external use is common.

In the treatment of **acute pleuritis** a warm poultice applied over the affected side sufficiently large to much more than cover the diseased area, will usually relieve the pain at once, and a large poultice is always more effective than a small one. It may be necessary to repeat its application within twenty-four hours, but if vigorous direct treatment is adopted, this is seldom necessary.

In **bronchitis** or **pneumonitis** in the initiatory stages, a quick poultice of *mustard* will exercise a good influence, but it does not give the immediate relief experienced in **pleuritis** or **pneumonitis** where acute pain is a prominent symptom. It should be followed, in the former conditions, as soon as the sensitiveness of the skin will allow, by persistent heat, moist or dry, as seems indicated.

In acute **pain** in the **heart**, either in angina pectoris or from other cause a sharp *mustard* poultice is essential.

In acute **stomach** pains and in intestinal colic, or pain in the abdomen from any cause, a large hot *mustard* poultice will be of much service. In all cases where *mustard* is used it is only auxiliary to other prompt treatment, as its influence is usually transient.

A most efficient measure in **congestive headache**, or in headache from any cause with fullness of the cerebral vessels, is a *mustard* poultice on the nape of the neck.

**Spinal irritation** is most effectively treated by the use of a succession of

these poultices. On the first day of the treatment one is applied on the back, across the upper third of the spine; on the second day across the middle third, and on the third day across the lower third, producing thorough sharp counter-irritation but no blistering. On the fourth day it is applied at the top of the spine again and the same course followed as before. This may be continued for two weeks or more if the skin is sufficiently restored in the interim, between the poultices. This course will most materially assist other measures adopted in the treatment of this condition.

A hot *mustard* foot bath is of great service in **congestive chill**, also in the chill at the onset of acute fever, or acute inflammation of any character. It produces immediate derivation, assists in equalizing the circulation, acts as a diaphoretic and perceptibly checks the progress of the disease.

In the **recession** of the rash of **eruptive fevers** no measure is more prompt than a general hot *mustard* bath, which should be continued until a mild redness covers the entire body.

At the onset of acute **cerebro-spinal meningitis** the disease has been completely aborted by the prompt use of a hot *mustard* bath. In some cases the patient may be wrapped in a blanket wrung out of hot *mustard* water, until the skin is reddened.

In conditions where there is a constant tendency for the skin of the legs to become cold, and the muscles to cramp during the night, a hot *mustard* foot bath at bedtime is of direct benefit.

In **arrest** of the **menses** from cold, a sitz bath strong with *mustard* will sometimes produce an immediate restoration of the flow. It is always of assistance to other measures. It is sometimes necessary to take this bath each night for a week preceding the time the menses should appear and continue it until that result is obtained.

## **SARSAPARILLA.                    *Smilax officinalis.***

Synonyms—Jamaica, Honduras or Spanish Sarsaparilla.

### **CONSTITUENTS—**

Parillin, sarsa-saponin, saponin, volatile oil.

### **PREPARATIONS—**

Ellingwood's American Materia Medica, Therapeutics and Pharmacognosy - Page 406

**Extractum Sarsaparillae Fluidum.** Fluid Extract of Sarsaparilla. Dose, from one-half to one dram.

**Extractum Sarsaparillae Fluidum Compositum,** Compound Fluid Extract of Sarsaparilla. Dose, from one-half to one dram.

**Therapy**—This agent is an active eliminant, possessing diuretic and alterative properties to a marked degree. It has long been a popular remedy for the treatment of blood dyscrasias, but is nearly always given in combination with other well known specific alteratives. In combination with potassium iodide, *stillingia*, *corydalis*, *phytolacca*, *podophyllum*, or other alteratives, it has been given in **scrofula** and **secondary syphilis**, and especially in **cutaneous diseases** depending upon blood dyscrasia, and in **rheumatic** and **gouty** conditions, with inactive kidneys irritated from the presence of large quantities of uric acid and the urates. It is not at present in general use.

## **SOLANUM.**

### ***Solanum carolinensis.***

Synonym—Horse nettle.

#### **PREPARATIONS—**

**Tincture Solanum.** Dose, from twenty to sixty minims.

**Specific Solanum,** made from the root. Dose from five to twenty minims.

#### **CONSTITUENTS—**

Solnine, Solanine, Solanidine, Solanic acid.

**Therapy**—The remedy has been used with some success in the treatment of **epilepsy**. It was used in an Eastern hospital for epileptics experimentally, with a reduction in the number of paroxysms of twenty-five per cent. It may be given in all forms of epilepsy in sufficient frequent doses to produce a sensation of dullness or drowsiness. It has cured some stubborn cases and has relieved many. Its specific field is yet to be determined.

It has been used in the treatment of **puerperal convulsions** with satisfactory results, in a few cases. In hysterical paroxysms it has been useful.



## **DULCAMARA.**

## ***Solanum dulcamara.***

Synonyms—Bittersweet, woody nightshade.

### **CONSTITUENTS—**

Dulcamarin, solanine, gum, resin, wax.

### **PREPARATIONS—**

**Extractum Dulcamarae Fluidum**, Fluid Extract of Dulcamara. Dose, from half to one dram.

**Specific Medicine Dulcamara**. Dose, from one-half to ten minims.

Potatoes and tomatoes belong to this family, and although the fruit is edible, the vines are usually poisonous.

Solanine may be obtained from the new sprouts of the ordinary potato.

**Physiological Action**—This agent is a powerful poison to all living protoplasm. It coagulates the blood and destroys the integrity of the corpuscles.

Injected into the veins it causes dyspnea, thrombosis in the vessels and arrest of respiration. Toxic doses produce tremors, muscular contractions, central paralysis, collapse, coma, a violent fall of the temperature and death.

It is a narcotic, and in toxic doses causes nausea, vomiting, faintness, pain in the joints, numbness of the limbs, dryness of the mouth, convulsive movements, a small hard pulse, paralysis of the tongue, a purplish color of the face and hands, twitching of the eyelids and lips, trembling of the limbs, erythematous eruption, suppression of venereal desire, though recov. ery has followed after very large doses. Clarus administered six grains of solanine, which produced general cephalic distress, with occipital pain, increase of the frequency and loss of the force of the pulse, followed after some hours by sudden vomiting, diarrhea, great weakness, and marked dyspnea.

**Therapy**—Dulcamara is a remedy for all conditions resulting from **suppression of secretion**, from **exposure to cold and dampness**. It will restore normal excretion and secretion.

In acute **coryza**, in **bronchial** and **nasal catarrh**, in lung congestion and bronchial cough, with pain in the chest, all from cold, in bronchial **asthma**, and in **acute bronchitis** it is an excellent auxiliary remedy.

In **eruptive fevers** it assists in determining the eruption to the surface, especially if there is retrocession. It has a direct action upon the skin also, being given in **pustular eczemas** and vesicular disorders quite freely. It has produced good results in **psoriasis**, **pityriasis**, **lepra**, and other scaly skin disorders. It acts as an alterative in such cases, and will influence the skin derangements of scrofula and syphilis to a certain extent. It is available in the various skin disorders of childhood from disordered blood and deranged stomach.

It is an excellent alterative, if administered with care, and is therefore valuable in syphilis, scrofula, and other blood disorders. In acute and chronic rheumatism from exposure to dampness and cold, and in gout, it has been advantageously used.

Nervous irritation with depression, with hyperesthesia of the organs, and pruritus pudendi are relieved by it. It may be used in spermatorrhea with undue excitement, priapism, nymphomania, and satyriasis. It should be given first in small doses, increased to full amount if necessary. In suppression of the menses with headache and nausea and acute ovarian congestion, it will work well.

It is advised in the treatment of catarrh of the bladder, and as a stimulant to the urinary secretion.

## **SOLANUM.**

## **“JATROPHA.”**

For several years the physicians of the south, stimulated by the writings of the late Dr. Burgess of Chattanooga, have used *Jatropha*, commonly called in that locality, “Bull Nettle,” in the treatment of syphilis, with rather remarkable results. The identity of the plant is not thoroughly established, but recent investigators claim that it is the *Solanum Carolinense*, or Horse Nettle of the north. Investigations made by the state of Tennessee identify it as *Solanum Rostratum*.

Prof. Lloyd (writing the author) says, “under the common names 'Horse Nettle' and 'Bull Nettle,' both *Solanum Rostratum* and *Solanum Carolinense*, are gathered. They are botanically so nearly related as to make it difficult for a collector to distinguish between them. Probably

varieties of each wedge into each other so that where they so commingle, that the collector would be unable to distinguish between them. Possibly the variety of *Solanum* classified by Dr. Burgess as Bull Nettle is really the *Solanum* known in the north as Horse Nettle, with radical differences from location that have caused him to classify it as a different species.

Dr. Burgess prepared an infusion, or decoction rather, as he believed that alcohol in the tincture would destroy its active properties. The root, leaves, stem, and fruit supply medicinal properties, but the tea is best made from the green root or from the whole green plant. A precise formula for the decoction is not given. It readily decomposes unless combined with glycerine in sufficient quantity to preserve it. The strong infusion is given in doses of from one-half to two ounces, every three or four hours.

It is claimed that this remedy will stop the stench of severe cases of syphilis in a few days, and will produce a sense of well being and a general improvement in a very reasonable time. Dr. A. C. Cook of Georgetown, Kentucky, believes this to be the *Solanum Rostratum*. He confirms the statements of Dr. Burgess. He gives the strong infusion in wineglassful doses every four hours. If there be constipation, he gives it more freely until the bowels move two or three times a day, and then as before, for seven days. For the next three days the medicine is discontinued entirely, to be again resumed for another seven days. Dr. Cook agrees with Dr. Burgess that intoxicating liquors, tobacco, and all animal fats must be avoided, and in the early part of the treatment, acids are incompatible. In the early stages, all observers claim excellent results. In the latter stages of the disease, it requires considerable time, but the benefits are secured in a satisfactory way, and leave the patient in excellent health.

The remedy is useful also in **scrofula, necrosis of the bones, ulcers, tumors**, and various skin affections. One writer believes that it will prolong life, health, and activity in the very old, promoting a sense of well being and warding off senility.

I introduce this remedy here, because of the very many expressions of approval I have received throughout the south. The future will determine its place and value. The Field Laboratory, Chattanooga, Tennessee, conducted by Dr. Burgess' daughters, supplies an infusion for trial, which is prepared according to the Doctor's method, or with glycerine, as may be desired.

(Editor's note: *Jatropha* species are not found in Tennessee, and their spiny Euphorbaceae relative *Cnidoscolus*—sometimes called Horse Nettle or Mala Mujer, could not grow so far north...so, despite the references by Dr. Burgess to "Jatropha", the plant discussed is most likely, as Lloyd averred, *S. carolinense* and/or *S. rostratum*)

## **SOLIDAGO.**

## ***Solidago odora.***

Synonyms—Sweet Golden Rod, Fragrant Leaved Golden Rod, Sweet Scented Golden Rod, Blue Mountain Tea.

### **CONSTITUENTS—**

The plant contains a volatile oil.

### **PREPARATIONS—**

An **infusion** may be given in doses of one ounce.

The **oil** is given in from one to three drops.

There is a **homeopathic mother tincture**.

**Therapy**—This agent has been used as a domestic remedy for **backaches** and **diseases** of the **kidneys** for centuries in Germany. Radamacher spoke highly of its properties. Homeopathic physicians prescribe it where there is pain in the kidneys, from any cause, extending forward toward the abdomen. **Pain** in circumscribed spots over the **kidneys**. **Difficult** and **scanty urination**, where the urine is of dark color, and contains a heavy sediment. Where there is **nephritis**, either acute or chronic. It is useful where there is **suppression of urine in infants**, or retained urine, which causes general depression, with headache. **Urinary obstructions**, from any character, in the early stage of dropsy, depending upon kidney disease.

The oil is carminative, and may be given in flatulent colic, cramps or pains in the stomach, from **flatulency**, with or without nausea.

In **dysentery**, **diarrhea** and in **cholera morbus**, an infusion or a few drops of the oil in hot water, given in conjunction with other indicated remedies, will be found of service. Hot infusions should be tried in **amenorrhea**, especially that form resulting from a cold of recent occurrence.

## **SPIGELIA.**

## ***Spigelia marilandica.***

Synonym—Maryland Pink.

### **CONSTITUENTS—**

Spigeline (bitter principle), fixed oil, volatile oil, resin, wax, tannin, salts.

### **PREPARATIONS—**

**Extractum Spigeliae Fluidum.** Fluid Extract of Spigelia. Dose, from one-half to two drams.

**Therapy—***Spigelia* is specific in the removal of intestinal worms. It need not be given in large doses, and if used with proper care, is most effectual. An excellent formula is the following, which contains united action of the two agents: Fluid extract of *spigelia*, two drams; santonine pulverized fifteen grains; simple elixir, a sufficient quantity to make two ounces. A teaspoonful is given on rising and retiring.

If this agent is followed, on the third day, by an efficient non-irritating laxative, it seldom fails to remove **lumbricoids**. The worms are not always entire when removed, but the evidences of their presence are gone, a slimy or heavy mucous discharge occurring from the action of the physic.

*Spigelia* is said to have a mild influence upon the heart. Webster says it is beneficial in endocarditis, especially in the rheumatic form, and that it will protect the heart from rheumatic attacks. It is stated that it is beneficial in angina, in all neuralgic heart affections, and in functional palpitations. The *Spigelia Anthelmintica* is thought to be more active in its influence upon the heart than the *Spigelia Marilandica*; otherwise there is but little difference in the two species.

## **STICTA**

## ***Sticta pulmonaria***

Synonym—Lungwort.

**CONSTITUENTS—**Not analyzed.

### **PREPARATIONS—**

**Specific Medicine Sticta;** dose, from one-tenth to ten minims.

**Specific Symptomatology**—This agent acts directly upon irritation in the chest, especially when complicated with irritation of the nerve centers.

Pain beneath the scapulae extending to the occiput, sharp pain with soreness above the scapulae, or in the shoulders, especially indicate *Sticta*.

As given by Felter and Lloyd in the American Dispensatory, the indications are as follows: Pain in the shoulders or in the back of the neck extending to the occiput, soreness or dull pain in the chest, or in the extrinsic respiratory muscles, which is increased by deep breathing. Irritation at the base of the brain, or in those organs or parts supplied by the pneumogastric nerve. **Irritative cough**; cough persistent and dry, of a rasping or wheezing character; short, sharp, hacking cough, with quick darting pains in the chest walls. They also advise it in the treatment of **rheumatism**, which involves the muscles and smaller joints. It may be given in **hay fever**, where the headache is severe, and in catarrhal disorders, where there is frontal tension, with sneezing, **coryza** and **conjunctivitis**.

It is given in the exhaustive cough of phthisis, bronchitis, and laryngitis. It relieves the cough and irritation in these cases and controls hectic fever, chills and night sweats.

**Therapy**—In coughs of acute **bronchitis**, with the indications named, it is useful; in **cough**, with wheezing and tightness—**asthmatic cough**, with the characteristic quick, sharp pains, it is indicated. It also influences directly the post-nasal mucosa.

It is valuable in some forms of **catarrh**, especially if there is reflex irritation. It has been used in **whooping-cough** and in **croupal coughs**.

*Sticta* has been suggested in **rheumatism** where the muscles of the chest are involved, where there is sharp, quick pain on respiration or where the muscles of the shoulder are sore and tender, where the muscles of the neck are involved.

The remedy has been used in **scarlet fever** to good advantage, but we have no specific directions for its administration in these cases beyond those named.

It has a specific influence in the treatment of those forms of **hay fever** and in those attacks of **influenza** characterized by the discharge of a hot, irritating, watery mucous, which afterwards becomes thick, bloody, greenish or yellow.

The catarrhal disorders to which this remedy is applicable are characterized by headache, with tearing pains through the side of the face and lower jaw, with pressure in the forehead, at the root of the nose, coryza, conjunctivitis, soreness and dull pains in the chest.

## **MAIZE**

## ***Stigmata maidis.***

Synonym—Corn silk.

### **PREPARATIONS—**

A **fluid extract** from the ear terminals of the common field corn prepared when yet green. Dose, from one to two drams.

**Specific Medicine Stigmata Maidis.** Dose, from twenty drops to two drams, in water.

**Therapy**—The agent is a diuretic and demulcent. It apparently has antiseptic properties, due probably to the presence of maizenic acid which has a desirable influence in neutralizing excessive alkalinity of the urine, and in the cure of phosphatic gravel.

It is of value in **catarrhal cystitis**, soothing, and neutralizing the strong ammoniacal odor, and decreasing the mucous secretion. In lithemia it increases the flow of water, and decreases the excessive proportions of uric acid and the urates. It is specific in relieving **bladder irritation** in these cases.

In painful urination from any cause, it is beneficial, and is a good auxiliary in the treatment of **gonorrhoea**. It influences all **catarrhal** conditions of the **urinary passages**.

Dupont advised its use in **dropsies** due to heart disease. He says it reduces the **edema**, and as the edema disappears there is a better regulation of the blood supply throughout the system; the pulse beats more regularly, the action of the heart is slower and the rhythm is improved. While this fact is true, there is not much improvement in dyspnea, nor in the actual condition of the heart when hypertrophy, contraction, or inefficiency are present. The agent is well tolerated by all

patients.

Dr. Pruitt of Arkansas in 1893 reported the use of a distilled extract of **Corn Husks** in the treatment of **malaria**. He had observed its use in many cases of chronic intermittent fever. In no case had he known it to fail in giving relief to the entire train of symptoms, often intractable to other remedies. It controls the persistent temperature, quiets irritability of the stomach, regulates the action of the liver and kidneys and reduces enlarged spleen. It has a mild, diuretic effect in many cases, relieving dropsical conditions not dependent upon actual kidney lesion.

Dr. Fledderman of Nebraska following the above suggestions, treated a boy who had long been having **malarial fever**. He secured some tablets from a Homeopathic pharmacy that were made from a tincture of **corn husk**. With this he cured the boy in a short time of the malarial condition. In another case of chronic malaria with cirrhosis and dropsy with the same remedy, and succeeded in relieving the condition in a few weeks, and ill curing the patient in a fairly reasonable time.

## **STILLINGIA.**

### ***Stillingia sylvatica.***

#### **CONSTITUENTS—**

An acrid resin, volatile oil, stillingine, tannin, starch, gum.

#### **PREPARATIONS—**

**Extractum Stillingiae Fluidum.** Fluid Extract of Stillingia. Dose, from ten to sixty minims.

**Specific Stillingia.** Dose, from one to sixty minims.

**Linimentum Stillingiae Compositum,** A. D.

**Syrupus Stillingiae Compositus,** A. D.

**Oleum Stillingiae,** A. D.

**Specific Symptomatology—**Irritation of the mucous membranes of the bronchial tubes, larynx, throat and both nasal cavities, deficient secretion, membranes red and tumid or glistening, blood dyscrasia with general enfeeblement, skin diseases of a moist character, red and irritable.

**Therapy—**The application of this substance to the chest with the internal use of small doses of the tincture will be found of great benefit in **bronchial cough** where there is a sensation of tightness in the chest, where the cough is hoarse and croupal without secretion. It has long



been used in conjunction with *lobelia* in the treatment of croup.

As an alterative it has taken front rank with Eclectics for fifty years. it is in general use in **syphilis**, in **scrofula**, in blood taint of any character, in **tubercular disease**, and in the **cancerous diathesis**.

## **STROPHANTHUS.**            ***Strophanthus hispidus.***

### **CONSTITUENTS—**

**Strophanthin.** The active principle of the plant, a glucoside, a white crystalline powder, neutral, bitter, insoluble in water, insoluble in ether and chloroform. Dose, 1/600 to 1/200 of a grain.

Strophanthidin and kombic acid.

### **PREPARATIONS—**

**Tincture Strophanthus** is prepared from the seeds alone. Dose, 1 to 10 minims administered cautiously .

**Specific Medicine Strophanthus** is made from the seeds is of full strength, and should be given in smaller doses than the official tincture. The dose is from one-half to five minims.

**Granules of Strophanthin** containing 1/500 of a grain are prepared and may be given, two or three granules every half-hour in extreme cases, until the force and power of the heart are improved, then every two hours.

**Administration—**In administering the alcoholic tinctures of *strophanthus* it should not be prescribed in an aqueous or syrupy menstruum, as the agent precipitates in these solutions. It should be dropped from the bottle into the menstruum at the moment of administration.

**Physiological Action—***Strophanthus* is the Kombe arrow poison, acting vigorously upon all muscular structure and specifically upon the muscular structure of the heart.

Its action on unstriped muscular fiber is similar to that of *ergot*. In some cases it affects the respiratory muscles so profoundly as to produce respiratory paralysis and death.

*Strophanthus*, in small doses, renders the pulse stronger and less frequent; arterial tension is increased. In toxic doses the systolic contractions become very frequent and very brief, followed, consequently, by enormous increase of blood pressure, to which is added

sudden cessation of the heart in systole. Respiration ceases last. It exercises an irritating influence directly on the muscle fibers of the heart. Its action on the heart is the same as that of muscarine. It does not act on the vaso-constrictors.

Under physiological conditions, the diuretic action is uncertain. Under pathological conditions, it renders the pulse less frequent, more vigorous and more regular; it promotes diuresis, causes the disappearance of dropsical swellings, and improves the subjective condition of the patient.

Unlike the most of the heart remedies, the effects of *strophanthus* seem to be caused by the agent being brought into direct contact with the muscular structure of the heart itself, after absorption into the blood. There is excellent authority for the belief that it neither acts through the medulla nor through the inherent ganglionic heart centers. It acts, by contact. It causes violent contraction of the heart muscle in extreme cases, being the only one of the heart poisons to leave the heart in systole after death from its use. It does not influence the vascular system.

The **diuretic influence** of the agent, if observed, is quite permanent. It increases the blood pressure in the kidneys to a great degree through its influence on the heart muscles, and thus directly upon the capillary circulation. It is also direct in its action upon the secreting and excreting mechanism of the kidney; by this influence its diuretic action is explained.

**Specific Symptomatology**—The direct indications for this agent are a weak and rapid heart from muscular weakness, inactivity or lack of contractile power. Apparently *strophanthus* acts similarly to *digitalis*, but it is not a cumulative poison. Pius, of Vienna, says in **disturbances of compensation**, *strophanthus* acts well. The pulse becomes stronger and diminishes in frequency, respiration becomes normal and dyspnea less marked.

**Therapy**—In **rapid and feeble heart** *strophanthus* reduces the pulse and increases the power. In some cases it also reduces the temperature.

**Dyspnea** is relieved in a few minutes after its administration, and the pulse becomes stronger and more regular in less than an hour. Its influence is exceedingly persistent and can be depended upon sometimes for weeks after the agent is discontinued.

In **asthma** the paroxysm is shortened and prevented, diuresis begins, and edema, disappears, not to reappear save in exceptional cases. The patient experiences a general relief.

It has been employed in **fatty degeneration of the heart**, in acute **endocarditis**, in **atheroma** of the arteries, in chronic **Bright's disease**, in **ascites** produced by cirrhosis of the liver, and certain pelvic tumors, in the enfeebled heart after acute and chronic fevers, in acceleration of the pulse, and **reflex palpitation** of neurasthenia, hysteria and chlorosis.

**Strophanthus** is **contraindicated** in ascites of tumors, hepatic, splenic and pelvic, in respiratory and circulatory troubles of vasomotor origin, in active hyperemia, and in cases in which there is a tendency to visceral hemorrhages.

In its influence upon the stomach it improves the digestion and increases the appetite. Like **digitalis** it may induce gastric irritation if given too long or too frequently, but this effect rarely occurs. It does not increase nerve tone.

In the Indian Medical Gazette, Dr. Sanders reported seventeen cases of **cholera** treated with tincture of **strophanthus**, all successfully. The results were quick recovery from collapse and a gradual rise of temperature.

Vacci claimed that in cases of **persistent anemia** of a chronic character, in acute anemia from flooding, especially where the heart's action is feeble and imperfect, he has found **strophanthus** to materially assist the **appropriation** of iron. In some cases where iron had been given a long time, causing insomnia, general nervousness and palpitation with indigestion where it seemed necessary to stop the iron entirely, he has used Blaud's pill with tincture of **strophanthus** with excellent results. Other forms of iron would probably act equally well.

**Strophanthus** has been prescribed in many cases of **goitre**, two drops of the tincture three times daily were given with a rapid reduction in the size of the enlargements, and in some cases a cure. In **exophthalmic goitre** it has accomplished marked results and has become a permanent addition to the therapeutics of this disorder. The dose in these cases is from five to ten drops three or four times daily.

**Urticaria** is reported as having, been cured with **strophanthus** given in full doses. It is credited with the cure of several cases of **tetanus**. Clapp, in the

London Lancet, reported a cure of traumatic tetanus after antispasmodics had entirely failed. In this case it had a marked diuretic effect.

Strophanthin is a mild local anesthetic. It is only of service in operations upon the eye and not of great service here. Its effects are slow in appearing and remain long. In animals a cloudiness of the cornea is apt to appear after its use.

## **IGNATIA AMARA.            *Strychnos ignatia.***

Synonym—Bean of St. Ignatius.

### **CONSTITUENTS—**

Strychnine, brucine.

### **PREPARATIONS—**

**Specific Medicine Ignatia.** Dose, from one-sixth to one half minim. Prescribed from five to fifteen drops in four ounces of water, a teaspoonful every two hours.

**Fluid Extract of Ignatia.** Dose, from one to ten minims.

**Tincture of Ignatia.** Dose, from five to twelve minims.

**Physiological Action—**The remedy presents the peculiarities of *nux vomica* to a great extent. In its therapeutic action it is prescribed under much the same conditions, but is a milder remedy. It seems to have less nerve irritating properties and an efficient nerve tonic influence.

**Specific Symptomatology—***Ignatia* is applicable if there is a tendency to **mental disorder**, with **suffocative hysterical symptoms**. Also where there is present the *globus hystericus* and nervous headache in feeble women with **sleeplessness**. It is applicable at the age of **puberty** during the establishment of the menses, also at the **menopause**, when the characteristic symptoms of nerve irritation are present. All the nervous symptoms are accompanied with weakness and general inappetence, where the patient considers her condition very serious, and her chances of recovery very slight.

Further symptomatology is dragging pains in the lower bowels, colicky pains with the menstruation, sexual frigidity, sterility, and impotence. Muscular twitchings of the face and eyelids, dullness of hearing depending upon the general weakness, and burning in the bottoms of the feet.

A prominent writer states that *nux vomica* and *ignatia* are not interchangeable, though chemically and botanically similar. *Ignatia* is primarily a spinal remedy. It seems to intensify the impressionability of all the senses. When the excitability is exhibited by anger, vehemence and irascibility, *nux vomica* is indicated.

When there is melancholy, with a tendency to weep, *ignatia* is indicated, and with the melancholy the patient hides his or her grief and nurses their sorrows, trying to keep them covered up. The patients sigh and weep, when alone, are very sensitive and easily irritated, but do not disclose their irritation. They have but little appetite, have considerable pressure on the top of the head, and are inclined to renew their grief over causes long passed.

In hysteria, these patients will alternately laugh and cry. The laughing becomes spasmodic, and there is cramping in the hands and chest. These cramps may be mistaken for convulsive paroxysms, especially as they may be followed by unconsciousness. But in these, it will be noticed that the spasms of the hands, will be readily relaxed on pressure or the patient will move the hand voluntarily. The patient recovers with long-drawn sighs. When the *globus hystericus* is alarming in this class of patients, give *ignatia*.

While it relieves all the above symptoms, it will also relieve the hiccough, the flatulent distention and disorders of the stomach and intestinal tract that are often present, with the above phenomena. It overcomes the pain of **intercostal neuralgia**, and the acute pain in the head common to many of these patients. The remedy has a soothing effect in all cases.

**Therapy**—Some hysterical women are troubled with **aphonia**, others with **amenorrhea** and in others the menses are replaced by a severe **leucorrhoeal discharge**. All these symptoms are benefited by *ignatia*. These patients are nearly all out of tone. The remedy is a vitalizer and nerve tonic, a restorer of nerve function. The patients are anemic, they have cold skin and cold extremities, and flabby inelastic tissues. There is lack of power of mental concentration. The patient is usually very forgetful.

Usually twenty drops of specific *ignatia*, in four ounces of water, a teaspoonful from four to six times a day will be a sufficient dose.

This agent is especially applicable to **hysterical females** with nervous weakness from **persistent uterine disorder**.

In **hysteria** the agent is given in small doses where the following specific conditions are present: Dragging pains in pelvis, dysmenorrhea with uterine colic, sexual apathy, congestive headache, burning on the soles of the feet, reduced general strength. It will increase sexual desire.

In **nervous depression**, from whatever cause, *Ignatia* in small doses frequently repeated and persisted in will be found an important remedy.

*Ignatia* is suggested as an excellent remedy for **sighing respiration**. It acts upon the central nervous forces like *nux vomica*.

## **NUX VOMICA.**                      *Strychnos nux vomica.*

Synonym—Vomit nut.

### **CONSTITUENTS—**

Strychnine, brucine united with igasuric acid and loganin.

### **PREPARATIONS—**

**Extractum Nucis Vomicae**, Extract of Nux Vomica. Dose, from one-eighth to one grain.

**Tinctura Nucis Vomicae**. Dose, from two to fifteen minims.

**Extractum Nucis Vomicae Fluidum**, Fluid Extract of Nux Vomica. Dose, from one to five "minims.

**Specific Medicine Nux Vomica**. Dose, from one-tenth to two minims.

**Physiological Action—***Nux Vomica* and its alkaloid, strychnine, act on the spinal cord and the medulla oblongata, a non-poisonous dose stimulating, and a toxic dose paralyzing them. There is contraction of the arterioles, while the heart is stimulated by a moderate dose.

A poisonous dose causes spasm of the muscles of the chest and prevents the respiratory act, with resulting asphyxia. According to the quantity taken, there may be weariness, stiffness in the muscles, soreness and heaviness in the limbs, stiffness of joints and the muscles of the chest and of the lower jaw. A larger dose causes violent tetanic convulsions, with brief intermissions, acute sensibility, and death may result in five minutes and usually within six hours. There is contraction of the

muscles, resembling trismus, with constriction in the throat, headache, dizziness, with symptoms of asphyxia. There is a leaden color of the skin; breathing is laborious; the pulse is rapid and fluttering, pupils dilated, while the face has a staring expression, with an appearance of fright.

The spasms grow less violent as the system becomes exhausted. During the intermission in the spasms the slightest stimulus will renew them. In some cases there is pain—a neuralgia of the spinal nerves—when an attack is accompanied with shrieks of pain, or with dizziness, insensibility and convulsions. Small doses in the corpulent may cause slight creeping sensations in the skin like electric shocks, with involuntary contraction of muscles, with headache, a disagreeable sensation in the head and dizziness. The influence of strychnine upon the great sympathetic is shown in many ways. There is an elevation of arterial blood pressure, an increased vigor to the heart's action, increased action of the sudoriparous glands, with dilatation of the pupils.

In some particulars it resembles the action of electricity in its effect upon the nervous system. There is often a sensation of tingling, a temporary stimulation, a sensation of increased nerve force, a renewed energy imparted to both voluntary and involuntary muscles.

**Specific Symptomatology**—The indications for *nux vomica* are sallow skin, a sallow circle around the mouth, yellowness of the conjunctivae. A thick yellow, pasty coat on the tongue, fullness, soreness or pain in the region of the liver, suggest the use of *nux vomica* in medicinal doses. It is also suggested by colic due to atonicity characterized by abdominal fullness, *sharp pain at the umbilicus* and a general torpor of the system. These symptoms are more quickly relieved by small doses of specific *nux vomica* than by powerful anodynes, and the relief by this agent is a cure. The indications are directly in the line of its physiological influence in small doses, especially when there is an impairment of tone of the gastrointestinal apparatus, a general or local atonicity of the digestive organs or organs concerned in these processes.

**Therapy**—This condition is sometimes induced by reflex influence, apparent in the persistent **vomiting** of **pregnancy**, the vomiting or **regurgitation** of **food** present in hysteria, and in the **vomiting** of **phthisis pulmonalis**, especially occurring in these latter cases after coughing.

Dr. Perry advises *nux vomica*, ten drops in four ounces of port wine, giving a teaspoonful every three or four hours when sea-sickness threatens, or

when it may be anticipated. He believes it is a very reliable remedy. A small quantity of the mixture may be taken on the tongue every few minutes, sometimes with better results.

The same atonic condition is present with **infantile diarrhea** of hot weather, in **cholera infantum**, in **cholera morbus** and in cholera. In the vomiting of these conditions small doses of *nux vomica* frequently repeated are specific.

In atonic congestion of the spleen or of the liver, existing from malarial influences, with whatever disease manifested, this agent is directly indicated.

It stimulates the digestion and increases the appetite. It is one of the very best, if indeed it is not the best, of our restorative tonics. In all debilitated conditions, in convalescence from exhausting disease and protracted fevers, wherever there has been depression or exhaustion of nerve force, it is the remedy.

In **chronic stomach disorder**, with deficient digestive power and general malnutrition, this agent arouses the nervous system and increases the functional activity of the digestive and assimilative apparatus more satisfactorily than any other known agent.

Cases of **vomiting** in **pregnancy** have been controlled by frequently repeated doses of the tincture of *nux vomica*, and the weakness of the stomach in **dipsomaniacs** with vomiting and anorexia are controlled with the agent, which is often rendered more efficient by combination with *capsicum*.

## **Strychnine.**

**Description**—This most important of the alkaloids of *nux vomica* occurs in the form of colorless prismatic crystals, or as a white crystalline powder. It is odorless, but intensely bitter. It can be tasted in 750,000 parts of water. It is permanent in the air, very sparingly soluble in water, soluble in one hundred and ten parts of alcohol and in seven parts of chloroform. Its salts, named below, are in more common use than the uncombined alkaloid, largely because of its insolubility, but it may be given in doses of from one-eightieth to the one-twentieth of a grain. The more soluble salts are in every way preferable.



**Strychnine Sulphate.** Dose, from  $\frac{1}{120}$  to  $\frac{1}{15}$  of a grain.

**Strychnine Nitrate.** Dose, from  $\frac{1}{120}$  to  $\frac{1}{20}$  of a grain.

**Strychnine Phosphate.** Dose,  $\frac{1}{180}$  to  $\frac{1}{80}$  of a grain.

**Strychnine Arseniate.** Dose  $\frac{1}{200}$  to  $\frac{1}{50}$  of a grain.

**Specific Symptomatology**—In acute heart failure from any prostrating cause, strychnine is given hypodermically or in conjunction with digitalis. In the prostration following any inflammatory disease of a severe and protracted character this combination is specific, but it seems to be particularly beneficial in the prostration of beginning convalescence **after pneumonia**, especially if there has been abscess or other exhausting complications. Often in these cases there is a tendency to sub-normal temperature and slow pulse; when this is the case there are but few remedies that will act as strychnine, and none will excel it.

**Therapy**—In **impotence** due to exhaustion, to relaxation or atony of the erectile tissue of the sexual apparatus, strychnine in small doses persistently used is an advantageous remedy. The extract of *nux vomica* may be given, but will not work as promptly as the alkaloid. In the incontinence of urine of the feeble and aged, and in nocturnal enuresis in childhood from atonicity without local irritation, minute doses of strychnia sulphate will often cure after repeated failure with other remedies. These facts are especially true in plethoric and relaxed cases and in inactive patients.

In uterine inertia from exhaustion or lack of nerve force, this agent excels all others. It increases nerve force, restores the normal contractility of the uterine muscular fibrillae, and increases the power and number of contractions in a normal manner. It also anticipates and prevents **post-partum hemorrhage**. In cases where hemorrhage has previously occurred it should be given in advance and for a short time subsequently to the birth of the child.

The influence of the sulphate or nitrate of strychnia is that of a spinal stimulant, pure and simple, with the power of augmenting nerve force to a most desirable extent by increasing the nutrition of the nervous system

entire.

Its effects are not alone upon the motor nervous system and voluntary muscles, but upon the sympathetic nervous system as well. For this influence it is best administered hypodermically in doses of from the one one-hundredth to the one-twentieth of a grain.

In **paralysis** of the **aged**, without active inflammation, it is of value, especially if injected deeply into the paralyzed muscles. Wherever paralysis occurs, without inflammatory action, it may be used if there be no structural changes in the nerve centers.

In the early stage of paralysis where rigidity or muscular spasm is present the agent is contraindicated. In fact, it is not to be administered in paralysis, except where absence of central irritation is evidenced by complete relaxation, flaccidity and perhaps tumidity. The more perfect the relaxation the more satisfactory the action of the agent. In these cases the agent should be injected directly into the paralyzed muscles.

In lead poisoning, with wrist drop and other evidence of suspension of nerve influence, with or without lead colic and constipation, this agent exercises a direct influence.

The influence of strychnine to relieve, modify or cure **alcoholism** is now almost universally acknowledged. It has been but a short time that dipsomania has been considered, as it now is, to be an actual nervous disease of the central nervous system with concomitant phenomena—a long train of disagreeable or dangerous symptoms. But since this fact has been recognized, there has been a universal effort made to discover the most satisfactory method of cure.

In 1891 Yarochevski reported a series of experiments on dogs, conducted to determine the antagonistic power of strychnia over alcohol. He gave them alcohol of a strength of 42 to 65 per cent and produced a staggering gait by the injection of 60 grams and complete intoxication with 90 grams. The alcohol was given for a week and produced considerable emaciation, followed by death. If, however, a hypodermic injection of two milligrams of strychnine was administered with each dose of 30 grams of alcohol, the latter could be run up to 180 grams without the development of intoxication or symptoms of strychnine poisoning.

On the ground of these experiments the author formulated the following conclusions: Strychnine suppresses the toxic action of alcohol; it enables persons to ingest large quantities of alcohol for a long time without appreciable injurious effects on the organs. The increased doses of alcohol which may be given with impunity, if associated with strychnine, have a limit—i.e., as soon as the quantity of strychnine necessary to counteract the effects of the alcohol commences to give rise to toxic symptoms. Strychnine is applicable as an antidote in all forms of alcoholism.

Portugalow, of Samaria, reported in 1891 that he cured 4-5 cases of **dipsomania** with hypodermic injections of strychnine nitrate. He knew of reliable and specific remedies for two affections only: strychnine for the various forms of alcoholism and quinine for malarial fever.

He prescribed a solution of the nitrate, two grains to the ounce of distilled water, for subcutaneous injection. He gave one or two injections daily of from four to eight minims of the solution. Usually ten to sixteen injections sufficed for a complete cure. This agent has now become of first importance in the cure of this condition.

Baines investigated the action of the nitrate of strychnine in **surgical shock**. In thirty cases he injected the remedy hypodermically in one-thirtieth grain (loses for from two to six days previous to the operation, where its general influence was not contraindicated by irritation of the nerve centers. On the day preceding the operation it was injected every three hours. It was injected before beginning the operation every two hours, and for two or three days afterward. In some of the cases he claimed *an entire absence of shock*. In all others the shock was very mild, and in no case was it severe, and convalescence was short and satisfactory. In all cases there was no collapse from the anesthesia and but little reduction of the force and strength of the heart and no respiratory failure.

Hare advises one-twentieth of a grain of the sulphate of strychnia at the time of the operation, just preceding and subsequently every half hour, treating the conditions induced by the agent symptomatically. We believe it to be better to begin earlier, in order to have the system previously braced and not be obliged to administer the agent to toxicity just at the time.

It is a direct antidote to **chloral** and is used to great advantage in the earlier stages of **opium poisoning**, poisoning or asphyxia from gas

inhalation and chloroform narcosis, and as a restorative to those apparently drowned.

**Antidotes**—In the treatment of strychnine poisoning, the stomach should be immediately irrigated. The spasms should be met promptly with inhalations of chloroform or amyl nitrate. A strong infusion of *white oak bark* or tannic acid in water should be given, or the substances can be used in the irrigating fluid. After the stomach is thoroughly evacuated, chloral in doses of from fifteen to thirty grains, with as much sodium bromide, may be given, or *passiflora* in from two to four dram doses, or large doses of the fluidextract of *gelsemium*. We have assurance now that full hypodermic doses, thirty to sixty minims of *subculoid lobelia*, repeated as needed, will prove to be a most dependable antidote for the action of this agent.

If the patient cannot swallow, the *passiflora* or chloral in solution may be injected into the rectum, or *veratrum* may be injected hypodermically in doses of from ten to fifteen minims. If the spasms increase in severity and in frequency, the result will be fatal. If they decrease in severity, are of shorter duration and occur after increasing intervals, the prognosis is hopeful.

## **Strychnine Phosphate.**

**Therapy**—The phosphate of strychnine given in doses of from  $\frac{1}{180}$  to the  $\frac{1}{80}$  of a grain combines the stimulating properties of the strychnine with the nerve building properties of the phosphorus. It is a combination that should be of much value in conditions where it is desired to retain the high point gained by a nerve stimulant, and make the condition thus gained permanent. The use of phosphorus and the phosphates during pregnancy, where anemia is present or where the nervous system is seriously drawn upon by the nutrition of the fetus, has been observed by many. The use of the phosphate of strychnine in doses of one one-hundredth of a grain is commented upon by Dorset. (Annals of Gynecology, Nov., 1897.)

He says a good appetite and a good assimilation are obtained in the general weakness and debility of the anemic constipation is relieved, and, in short, the patient is built up and placed in a good condition to pass through the ordeal of labor. It improves the appetite and digestion, overcomes despondency, relieves constipation and materially builds the

patient up, placing her in an excellent condition to pass through the labor with full strength. The uterus contracts promptly after the second and third stages, and the use of ergot is entirely dispensed with. The often observed chilliness or rigors which, in the majority of cases immediately follow labor, have been noticed in but few cases. These rigors, little account of which can be found in textbooks, are nothing more or less than surgical shock. This is obviated by the prophylactic—strychnine. He believes that as phosphorus and strychnine are remedies used in the treatment of rachitis with good results they are indicated during the gestation of the rachitic fetus.

A wide field of action is open to this compound, as prostration from real deficiency of the nerve elements, prominent among which is phosphorus, is a common condition among very many, especially among brain workers. The strychnia lifts the forces up to the normal point, and the phosphorus permanently holds them there by its restorative influence.

### **Strychnine Arsenate.**

**Administration**— The dose is from the  $\frac{1}{200}$  to  $\frac{1}{50}$  of a grain, usually administered in pill form. In granules of  $\frac{1}{120}$  of a grain the agent is convenient of administration and prompt in its action.

**Specific Symptomatology**—Hale says arsenic acts upon the glandular system, and fluids of the body, while strychnine acts upon the nervous system. He advises it where the nutritive and glandular systems are involved to any great extent, with implication of the nervous system at the same time. This is found in paresis or mild forms of paralysis with edemic tissues, sodden, relaxed muscular structures, with anemia and tendency to dropsical conditions; great nervous weakness or prostration, with marked blood dyscrasia, chronic glandular induration, chronic ulceration, and the conditions of the mucous surfaces of the intestinal canal following typhus or typhoid fever and dysentery.

It is specifically indicated in the debility or nerve failure of the aged, and in the prostrating influence of severe disease in children. During severe fevers it will not antagonize the sedative influence of the antipyretics, but will brace the nervous system against the prostration that will follow when the fever is gone.

It antagonizes vasomotor paralysis in all cases. In spasmodic affections it

is valuable. The author has given it persistently with sedative remedies in severe chronic cases of **asthmatic bronchitis**, especially in the aged, and cured them both permanently. It is indicated in a general way where strychnine is demanded, but has a special characteristic tonic influence.

It may be given in the asthenic stage of all prostrating diseases, except during the hours of the day when the temperature is increasing or stationary at its highest point. It strengthens the heart's action, and, like quinine, if given in the intermission of the temperature, or at the time of the greatest remission, it often prevents an increase of the fever and determines a continued lower temperature. It increases or intensifies the action of many stimulating, restorative or antiperiodic remedies.

## **SYMPHYTUM**

## ***Symphytum officinalis.***

Synonym—Comfrey.

### **CONSTITUENTS—**

It contains tannic acid, starch and a small quantity of asparagine.

### **PREPARATIONS—**

A **tincture** and a **fluid extract** are prepared, also **specific symphytum**. Dose of tincture is from one to ten drops.

**Therapy**—Its direct influence, like other mucilaginous agents, seems to be upon the mucous surfaces when taken internally. It was previously advised in all forms of bronchial irritation, with cough or difficult breathing, especially if there was hemoptysis. It was used in the chronic cases, or where there was protracted convalescence. of severe acute cases. Some writers have been very enthusiastic concerning its specific influence. One physician who has used it for over thirty years, claims to obtain the best results from a strong decoction, made from one ounce of the root, in a pint of water. He gives this almost *ad libitum* as a drink. In **pneumonia**, this decoction relieves the difficult and painful breathing. It aids expectoration, and tends to lower the temperature. In all serious cases, he depends upon this remedy. Its properties he believes to be not only soothing, but demulcent, balsamic and especially pectoral.

Where there is **inflammation** of the **stomach** or bowels, he has obtained signal benefit from this infusion, especially if, as a result from inflammation, there is hemorrhage or passive discharges of any character. He also gives the infusion as a drink in nephritis, in both acute and

chronic cases. In inflammation of the bowels, it may be injected, and being retained it exercises a direct soothing influence, which would probably be enhanced by the addition of the proper intestinal antiseptic.

Old European writers called attention to this remedy as a vulnerary. It had a great reputation as an external application in the treatment of wounds, bruises and putrefying sores. They used it for ruptures and applied it where a bone was fractured, believing that it would stimulate the knitting of the bone. These old writers claimed that it was useful in all hurts and bruises, internal and external, in all cases of **hemorrhage, blood spitting, flux, diarrhea, dysentery, menorrhagias, leucorrhoea**. It will certainly relieve the swelling and pain of a bruise or sprain as quickly as any other remedy with which we are familiar. One writer, in his zeal and confidence, says: "It acts upon an inflamed surface like a charm, subduing inflammation as water subdues and extinguishes fire." Another writer says: "This agent has marvelous healing and cicatrizing properties. If the tincture be applied to swollen and painful parts, it quickly reduces the pain and swelling. It stimulates granulation in slow healing ulcers, and rapidly promotes healing in bruises of the muscles, ecchymosis, injuries to the tendons, and cartilaginous tissues. It is indeed efficacious. An antiseptic decoction will produce much the same results as the tincture."

## **TARAXACUM.**

Synonym—Dandelion.

Part Employed—The root.

### **CONSTITUENTS—**

Taraxacin, taraxacerin, resin, inulin, pectin.

### **PREPARATIONS—**

**Extractum Taraxaci**, Extract of Taraxacum. Dose, from five to thirty grains.

**Extractum Taraxaci Fluidum**, Fluid Extract of Taraxacum. Dose, from one to four drams.

**Specific Medicine Taraxacum**. Dose, from five to sixty minims.

**Physiological Action**—This agent acts mildly upon the liver as a cholagogue, and in consequence its laxative influence is mild. It stimulates the flow of bile into the duodenum, and encourages the

eliminative changes carried on by the liver. It encourages the proper elaboration and elimination of urea, and the excretion of uric acid.

**Therapy**—It is valuable in combination with other remedies of similar action, in **chronic jaundice**, in conditions attributable to **auto-intoxication**, in **rheumatism** and in **blood disorders**, as an alterative. It is especially an alterative for **chronic eruptions**, and unhealthy conditions of the skin.

It will stimulate the stomach, and is useful in chronic **catarrhal gastritis** with perversion of nutrition. In **aphthous ulcerations** of the mouth it is useful.

## **THAPSIA.**

### ***Thapsia garganica.***

Part Employed—The root.

**Physiological Action**—The agent is a prompt vesicant and an exceedingly active counter-irritant. In certain cases it is singularly valuable, but the plaster must be an active one and its full influence should be obtained in from four to six hours. If it acts mildly and slowly much less good will result.

There is no pain, but in most cases an intolerable itching and if the surface is not scratched or irritated there is no spreading. It is sometimes necessary to cover the surface to prevent irritation, which may be allayed in a short time by the application of a starch paste, or by the use of the glycerole of starch.

**Therapy**—In stubborn, **bronchial disorders** *Thapsia* has produced immediate and permanent benefit. It is valuable in **chronic lung troubles**, especially where there is effusion or probability of suppuration. If the plaster is of French manufacture, six hours is a sufficient time in which to obtain its full effects, but if of American manufacture, it will require a longer time, but may be equally satisfactory. It can be relied upon wherever a strong, revulsive influence is required, and can be used in chronic inflammation of any organ, or, in fact, wherever **cantharides** is indicated this remedy will induce better results, without the drain upon the system induced by the latter named agent.

The application of a **thapsia** plaster will often cure persistent cases of **sciatica**, even when other measures have signally failed. in **neuralgia** of



any kind it is of service and will be found beneficial in some cases of muscular rheumatism.

Because of the exceedingly irritating character of this agent, but little use has been made of it internally, and yet some excellent authorities claim much benefit from its action. Dudgeon speaks of this agent as a remedy for certain urinary conditions. He says it is a powerful anti-hemorrhagic and has a marked influence in correcting the uric acid diathesis. Rademacher prescribed thirty drops of the tincture five times daily in a case of **dropsy** with **haematuria**, both conditions disappearing promptly with the discharge of a large quantity of renal sand with the urine which was greatly increased in amount. A pupil of Rademacher gave the same dose to a woman suffering from **strangury**. She could not retain the urine, which was turbid, containing a red sediment and there was constant pain in the urethra, a cure resulting within one week.

Jousset has found the remedy useful in many forms of hemorrhage. Herr used it with success in the **painful urination of old people**, both with and without spasmodic retention. It apparently acts more satisfactorily where there is an excess of uric acid and in these cases it deserves further trial.

## **THUJA.** *Thuja occidentalis.*

Synonyms-Arbor vitae, white cedar.

### **CONSTITUENTS—**

Colorless volatile oil, soluble in alcohol, with a sp. gr. 0.92, and a yellow, crystallizable, bitter principle called thujin, punitannic (Kowalier) and thujetic acid.

### **PREPARATIONS—**

**Extract non-alcoholic**, Fluid Extract Arbor Vitae, not miscible with water. Dose, from one-fourth to one dram.

**Specific Medicine Thuja.** Dose, from one to ten drops.

**Administration—**In the treatment of local conditions involving blood changes, the beginning dosage should be small, and administered two or three times per day. If, however, the condition does not show improvement, especially where there is a **cancerous cachexia**, the dose may be increased, if necessary, to one dram every two or three hours. In non-malignant cases the dose may be much smaller. In warts and excrescences, two small doses per day will often remove them in a few

days, especially if external use of the agent be made also. In conditions of a syphilitic character the cure in all cases will be more protracted.

**Physiological Action**—No extended systematic study of the physiological action or specific therapeutic application of this agent has been made. It exercises a peculiar influence over abnormal growths and tissue degenerations, especially those of an epithelial character. It was originally advised as a remedy for epithelioma, to be administered both internally and externally. It has been widely used in the treatment of cacoplastic growths, and glandular indurations of a scrofulous character, also of warts, small tumors, and incipient cancers of different varieties, and goitre. It is a remedy for perverted glandular action and certain blood dyscrasias.

**Therapy**—It has been used extensively by all physicians in the treatment of **cancer**. It is claimed to exercise an abortive influence over incipient cancer, and to retard the progress of more advanced cases. In extreme cases it will remove the fetor, retard the growth, and materially prolong the life of the patient. It should be given internally and the dosage increased to the extreme limit. It should also be kept in contact with the parts externally or injected into the structures. **Epithelioma, condylomata**, and all simple cancerous growths should be treated with it.

I had an interesting report from Dr. Caple who injected *thuja* into a **giant-celled sarcoma** of the hip joint. He used a teaspoonful in the structure at once, giving the remedy internally, in fifteen-drop doses, with the same quantity of *echinacea*. The results were more than he had anticipated.

Dr. Jones injected from twenty to sixty drops of *thuja* into a **rectal cancer** every second day, and also where there was a cauliflower variety of cancer of the uterus. He believes in this remedy if enough is used. It must be used very freely.

*Thuja* is given internally for cancer, and for the pains of cancer it is applied externally, when possible, occasionally with good results.

*Thuja* certainly exercises a direct influence upon the glandular structures and function. In what manner this influence is exercised is unknown, but in any disease that involves the gland, this remedy must be considered, and if there are no contraindications it can be tried, and in many cases as with the ductless glands, it seems to act in a direct manner.

*Thuja* is directly indicated, first, as a peculiar alterative, in improving diathetic conditions of the blood. Again, it acts directly upon abnormal growths-perversions, such as peculiar conditions of the cell structure of the skin, and other external structures. It is thus indicated in all abnormal growths of the skin or mucous membranes. It exercises a specific influence upon **catarrhal discharges**, correcting the **glandular faults** that are to blame for such a condition wherever they may be. It is specific to **urinary irritation** in aged people especially; also in childhood. It strengthens the sphincter of the bladder.

Dr. Andrews uses *thuja* in **chronic diarrheas**, and in the treatment of ulceration of the bowels. In colonic ulceration, he uses it as a high enema once or twice a day.

In a bad case of **polyuria** with great sensation of debility and weakness of the entire sexual apparatus and some loss of sexual strength, a man of 65 was given five drops of *thuja* every two hours with complete success.

*Thuja* is an important remedy in the treatment of **spermatorrhea**, especially if from exhaustion from over-indulgence, or from **masturbation**. The patient must avoid alcoholic stimulants. Dr H. C. Noble reported twenty-nine cures out of thirty consecutive cases. In these there was nervous irritation and usually **sexual neurasthenia**. In those cases in which the mind is seriously depressed by the physical condition, it is of especial service, as it stimulates the nerve forces and delays the discharge until, by general improvement of the entire nervous system, the condition is restored. The influence of the agent will be enhanced by a combination with *avenasativa*, *sawpalmetto*, or *staphysagria*, in cases of this character, when *Thuja* should be given in doses of from two to ten drops, four or five times daily.

As an external application *Thuja* produces at first a sensation of smarting or tingling when applied to **open sores** or **wounds** and it is usually best to dilute it with one, two or four parts of water, or to combine the non-alcoholic extract with an ointment base in the above proportion. This constitutes an excellent mildly antiseptic and actively stimulating dressing to indolent, phagedenic or gangrenous ulcers. It is of much service in bed sores and in other open ulcers dependent upon local or general nerve exhaustion.

In **chronic skin diseases** of either a non-specific or specific character, it

is a useful remedy. Vegetations of all kinds, especially those upon mucous surfaces, will yield to it readily. It is a useful agent in the treatment of **post-nasal catarrh**, and **nasal polypi**. A small dose internally four or five times daily, with the application of fluid *hydrastis* in a spray, will quickly retard or remove such abnormal growths. It is also applicable to **sloughing wounds**, and to **phagedena** of the venereal organs. It is a positive remedy in the treatment of **senile gangrene**. It causes gangrenous surfaces to dry without hemorrhage or other discharge, destroys offensive odors and influences granulation.

Recent reports have been made concerning the very beneficial action of *thuja* on **papilloma of the larynx** and affections of that character in the post nasal region. J. Moreau Brown has reported a number of cases satisfactorily treated with this remedy. The agent is applied locally and small doses are given internally. One cases of multiple papilloma was quickly cured.

The same writer uses this agent in the treatment of **growths** in the **posterior nares**. He reports the cure of several small **tumors polypi** and **papillomatous growths**. He treats chronic **enlargement of the tonsils** with this remedy and has succeeded in reducing many severe cases to the normal size. He has treated some cases of **disease of the turbinated bones** with the same remedy. He believes that in all cases of normal hypertrophy, where there is no diathesis, underlying the difficulty, in the post nasal region, this remedy is of inestimable value.

The treatment of **adenoids** is greatly simplified by making an application first of Monsell's solution to the diseased structures, and then applying *thuja*. The use of *thuja* persistently in these cases is as effectual as it is when used in the same manner for **syphilitic** ulcerations. It may also be given internally.

Professor A. J. Howe cured **hydrocele** almost exclusively with this agent. The following is the course he adopted as described in his own words: "In an ounce of warm sterilized water pour a dram of Lloyd's *Thuja*. Mix thoroughly by drawing a quantity into the syringe, and forcing it back repeatedly for a few times, then draw up about two drams of the dilute mixture in the barrel of the syringe to be ready for use. Introduce a large exploring needle into the sac of the tunica vaginalis testis and allow the fluid to escape. Before withdrawing the needle, place the nozzle of the loaded syringe into the needle's open mouth and with a plunge of the piston force the diluted *Thuja* into the cavity recently distended with

serum. Then in order to cause the liquid to enter every crevice of the sac of the hydrocele, pinch and knead the scrotum with the fingers quite vigorously. The needle is then withdrawn. The pain induced is quite considerable for at least half an hour, then the patient goes about his business and usually no additional treatment is required." The above method, with some unimportant variations, has been in general use among our physicians since suggested by Professor Howe, and the result as reported by very many has been satisfactory.

This agent has been used successfully in the treatment of trachoma. The non-alcoholic preparation is combined with vaseline or other unctuous substance and applied once or twice daily.

Dr. Barber uses *thuja* in **conjunctivitis**. However severe the case, he had no case especially where there was severe **granulation of the lids** that was so stubborn but that he could benefit it with a mild solution of *thuja*. He occasionally used Long's *thuja* with vaseline with equally good results. The use of *thuja* in **pterygium**, is spoken of by a number of our writers. It is applied directly to the growth as often as possible without inducing inflammation. Cures have been effected in many cases.

Dr. Walker for many years has **injected** small **tumors** with *thuja* full strength, twenty drops for the first injection, increasing the subsequent injection every day or two until in some cases he has used as high as half an ounce. An abscess forms and the tumor slowly disappears.

The agent is especially advised in the treatment of urinary disorders of the aged and young. It gives satisfaction in the treatment of **nocturnal eneuresis** when the difficulty is of functional origin. It is also valuable when there is dribbling of urine, loss of control from paralysis of the sphincter, perhaps, in the aged, where **urinary incontinence** is present, with severe coughs, lack of control when coughing or sneezing. Sometimes in severe cases of nocturnal eneuresis, it is accompanied with *belladonna* or *rhus aromatica* with good results. In old men with chronic **prostatitis**, with constant dribbling of the urine, this agent is valuable. It relieves the weakness at the neck of the bladder. It tones the muscular structure of the bladder and exercises a desirable influence over the mucous structures of the entire urinary apparatus. It also stimulates secretion within the tubules of the kidneys by its direct influence. upon the epithelial cells.

Where there is **irritability** of the **bladder** from the presence of uric acid, or

other precipitates in the urine, or where there is chronic rheumatism or gout, the agent is serviceable. It is not advised where there is acute inflammation.

The agent is useful in **urethral caruncle**, and as a remedy for gleet, when granular urethritis is present. The remedy is valuable in the treatment of disorders of the mucous lining of the bronchial tubes. It is beneficial in ulcerative forms of **sore throat**, where the secretions are fetid in character. It may be inhaled in **chronic bronchitis**, **bronchorrhea**; **bronchitis**, with offensive discharge; **chronic nasal catarrh**. Hemorrhage from these organs is beneficially influenced by its use. A number of cases of **spermatorrhea** have been cured since our previous report on this remedy.

The **balanitis** from cystitis with frequent urination, indicates this remedy. It is beneficial when the urine seems to burn or scald in the passing, when there is local soreness in the urethra or neck of the bladder, when the bladder tolerates but little urine at a time, and the patient must rise frequently during the night.

Homeopaths give *thuja* where the **rectum** is diseased; where there is a slimy discharge streaked with blood with dark blotches on the adjoining tissues; where there is itching and constant inclination without power to expel feces; sharp sticking pains in the rectum. It will act with *collinsonia* or *hamamelis* in this.

In cases of **verruca** on the genitalia or rectum, this agent is advantageously used, especially if preceded by a mild escharotic. In **prolapsus of the rectum**, especially in cases depending upon paralysis, this agent, may be diluted and injected. It has stimulating properties, which restore the vitality of the part. It is good for fissure of the rectum with piles.

The injection of *thuja* into nevi that are of a **non-pulsating** character, or those not too venous in structure, has been recently practiced.

In **bulging nevus** the remedy has been used advantageously. One case was cured in three weeks, where the nevus looked like a ring worm, and was of a fiery red color. One physician cured a case of **ulcerated stomach** with *thuja* in four-drop doses, alternated with sub-nitrate of bismuth every two hours. This patient had pain extending through the stomach to the back. No physician gave him ease. Anything warm produced great

distress. The case was cured in a few weeks.

Another physician advised the agent in **pruritus**, whether of the anus or vulva, especially when accompanied by fissures. He uses it in warts, tumors and excrescences. He uses it for chapped and rough hands, so troublesome in the spring and fall.

Another physician reports a case of extreme **prolapsus of the bowel** in a child which he cured with a five per cent solution of *thuja*. A wet dressing was applied and a small quantity of the remedy was injected into the bowel. A greatly enlarged and **relaxed uterus** in a woman of fifty with severe metrorrhagia was treated with injections of *thuja*. The remedy should be diluted in these cases.

A doctor reports the cure of a **urinary fistula** by giving two drops of *thuja* internally every four hours.

The use of the *oil of thuja* in **confluent smallpox** given internally and applied externally was advised by Dr. Busbee who had an extensive and successful experience with it in these cases.

*Thuja* applied to the tonsils and crowded into the crypts is an excellent remedy. I am using it in **syphilitic throat ulcerations** and if I precede it once or twice with an application of Monsel's solution it has proved invariably satisfactory so far.

*Thuja* will prove an excellent remedy for all forms of **sore mouth**, especially if combined with *echinacea* and a mild antiseptic astringent.

Dr. Gibbs reports a case where a number of **varicose enlargements** about the ankle of an old washer woman broke down. He made a 50 per cent solution of *thuja* and applied it freely with bandages, covering the whole with roller bandages, and produced a cure.

## **TRIFOLIUM.**

## ***Trifolium pratense.***

Synonym—Red clover.

**CONSTITUENTS**—Not analyzed.

### **PREPARATIONS—**

Specific Trifolium. Dose, from one to sixty minims.

**Therapy**—*Trifolium* has been used as a cancer remedy by virtue of specific alterative properties said to exist in it. It was at one time widely advertised, but the profession has failed to observe the effects claimed by the proprietors, and yet it undoubtedly has active alterative properties. It is given where a cancerous diathesis is known to be present, and its use is persisted in for months. Improvement in objective phenomena is reported from a number of excellent observers.

The agent is also prescribed in **irritable conditions of the larynx** and air passages, especially if evidenced by **spasmodic cough**. It has served a good purpose in **whooping cough**, in the **cough of measles**, and in general bronchial or pulmonary irritation. A dry, irritable cough will respond most readily to its influence.

Dr. Lambert is of the opinion that *trifolium* has a direct action in improving the **nutrition of the brain**. He thinks it is demanded when the patient is overworked; when there is general mental failure, with loss of memory of words, or when there is confusion of ideas of functional causes; also when there is weakness of the lower extremities, or of the feet from deficient capillary circulation.

## **TRILLIUM**

### ***Trillium pendulum***

Synonym—Bethroot.

#### **CONSTITUENTS—**

An acrid principle, a resin, tannic acid.

**Therapy**—*Trillium* influences mildly the nerve supply of the organs of the thorax. It assists **heart** remedies in relieving ample functional irritation. It cures **catarrhalbronchitis** when there is very profuse expectoration. It soothes the cough of incipient **phthisis**, especially where there is a tendency to hemorrhage, over which it has a marked controlling influence. It restrains excessive action of the kidneys. At one time it had an excellent reputation in the control of **diabetes insipidus**.

It controls **uterine hemorrhage** of a passive character to an excellent advantage, especially **menorrhagia** and **metrorrhagia**. Excessive vaginal catarrh is restrained by it.



## DAMIANA.

## *Turnera aphrodisiaca.*

Synonym—*Turnera diffusa.*

### PREPARATIONS—

**Extractum Damiana Fluidum**, Fluid Extract of Damiana. Dose, from one-half to one dram.

**Specific Damiana.** Dose, from two to ten minims.

### CONSTITUENTS—

Essential oil, chlorophyl, two resins, albuminoids, tannin.

**Therapy**—A mild nerve tonic claimed to be valuable in the treatment of **sexual impotence**. Some of our physicians praise it highly for its influence in **sexualneurasthenia**, and it is said to correct **frigidity** in the female.

It had long enjoyed a local reputation as a stimulant **tonic** of the **sexual apparatus** among the natives of Mexico, before it attracted the attention of the profession. Besides its peculiar action on the sexual appetite and function, it is a general tonic, somewhat cathartic, and is slightly cholagogue.

The midwives and women of loose morals of Western Mexico also attribute **emmenagogue** properties to it.

Dr. Reid uses *Damiana* in all conditions where a general tonic is needed, especially if there be enfeeblement of the central nervous system. He esteems it most highly, prescribing it constantly for this purpose.

It is valuable in **renal** and **cystic catarrh** and in general irritation of the urinary passages, through its influence in soothing irritation of mucous membranes.

This latter property renders it valuable in the treatment of **respiratory disorders**, especially those accompanied with profuse secretion.

In the line of the action of this remedy in its influence upon the reproductive organs, Dr. Reid mentions **dysmenorrhea**, **headache**, at the **menstrual epoch**, **bad complexion**, rough or discolored patches on the skin with acne, especially of a severe type, depending upon uterine



colorless, nearly odorless; slightly soluble in water, soluble in alcohol. Dose, from one to three grains.

**Terebene** is obtained by the action of sulphuric acid on the rectified oil. The product is distilled. A colorless, thin, aromatic liquid is the result. It is soluble in alcohol, only slightly so in water. Dose, from three to fifteen minims.

**Physiological Action**—The *oil of turpentine* is an irritant when applied to the skin or mucous membranes in any considerable quantity. It causes burning, a vesicular eruption, and deep, stubborn ulcerations. In the stomach it produces warmth, increased from an overdose to a burning pain, nausea, vomiting, purging, eructations of the oil, great gastrointestinal irritation, amounting to gastro-enteritis. In toxic doses it causes renal hyperemia, great irritation of the urinary tract, violent hematuria and strangury, with suppression of urine and albuminuria.

It stimulates the heart, increases the arterial tension for a time, increases the temperature and exalts the mental faculties. Ultimately there is a reduction of physical strength, muscular insecurity, tremblings, incoordination, great nervous irritation, wandering of the mind, incoherence, insensibility and coma, breathing stertorous and labored, from paralysis of respiration; face cyanosed or flushed, pupils dilated. All exudations contain its odor.

While violent symptoms have often been produced by full medicinal doses of turpentine, fatal results have seldom occurred. Five ounces have been taken by adults with recovery. Children have died from overdoses in a few instances. The agent is eliminated through the kidneys and mucous membrane, and this fact explains its immediate influence upon these organs and structures.

**Specific Symptomatology**—In two marked conditions apparently diametrically opposite in their character, this agent is specific.

First. In **excessive secretion of mucus**—catarrhal discharges from whatever cause, especially if there be relaxed, enfeebled, atonic mucous membranes. It may be given with confidence.

Second; in **gastric or intestinal inflammation**, or in persistent fevers, with dry, red, glazed tongue, dry mucous membranes—**tympanites**, with **suppression of the secretions** of all gastric and of intestinal glands.

It is also indicated by a steady distress or dull grinding pain in the abdomen, a sensation of hardness across the abdomen, with tendency to constipation, with general inactivity of the entire glandular structure of the gastrointestinal tract.

It increases the tone and capillary circulation of all the mucous structures, and in the abdomen of the muscular structures of the intestines also. Its antiseptic powers are great, destroying parasites and germs of disease, and inhibiting putrefaction and fermentation.

In intestinal disorders of childhood it prevents the formation of lactic and butyric acids, and the irritation caused by their presence.

**Therapy**—The specific indications suggest the use of *turpentine* in **acute** and **chronic bronchitis** when there is an excessive discharge of mucus. Its influence may be observed from the first.

It controls the cough, allays the excessive bronchial secretion, soothes the irritation throughout the chest, relieves the diffused soreness and promotes the cure. In **pharyngitis** and **laryngitis** it is of value also.

In acute inflammations within the chest its external application is of much value, especially in pneumonitis or capillary bronchitis with diffused soreness. Soreness and tenderness in acute fevers and inflammations are relieved by the external use of *turpentine*, while quick, sharp, acute pain is best combated by the external use of mustard and anodyne counter-irritants.

In **croup** its influence is direct. In both the mucous and membranous forms it has accomplished excellent results. It is given internally, applied externally, and its vapors are inhaled in these cases for a short time, careful watch being kept for evidences of its irritating influence upon the kidneys. In some extreme cases where it has not been previously used, a single large dose of ten or fifteen drops to a child of five years or above, will apparently exercise a prompt influence.

In **diphtheria** with occlusion of the larynx, throat or nasal passages, from the membrane, it should be dropped on the surface of hot water in a close-mouthed vessel, and the vapor inhaled for a few minutes every two or three hours. It may be used in this manner with excellent results with an equal amount of the oil of *eucalyptus*. It may be also used in an

atomizer for this purpose. In all throat difficulties its external application is beneficial.

It is a remedy for **acute** and **chronic nasal catarrh** and if given persistently it will prove most serviceable, even in stubborn, chronic cases. In **gastric** or **intestinal catarrh** it is a remedy of much value given in proper doses in palatable emulsion. **Pain** due to this condition is quickly relieved by *turpentine*, and atonic, relaxed and enfeebled mucous or muscular structures quickly restored, and normal function attained.

*Turpentine* is a most excellent remedy in the treatment of **typhoid typhus** and low forms of **fever**, and in typhoid complications of **acute inflammations**. In these conditions, when the tongue is dry, glazed and dark red, the temperature persistently high, the pulse small, wiry, rapid and feeble, with distention of the abdomen from tympanites, the urine scanty and dark, the intestinal glands ulcerated and intestinal hemorrhage present, *turpentine* is certainly a most efficient remedy. Its antiseptic influence is exercised in conjunction with its restorative power over the mucous and intestinal glands. It is given in doses of from two to five drops every two or three hours.

In **peritonitis** or **appendicitis** with any of the above phenomena with tympanites the agent is prescribed with only good results.

In all conditions within the abdomen where its internal use is demanded, especially if there is distention of the abdominal parieties from the accumulation of gases, the external use of *turpentine* is important. A stupe may be prepared by wringing a piece of flannel out of hot water and sprinkling a few drops of *turpentine* over its surface as it is applied. This should be kept hot by being properly covered. A popular domestic method is to melt a quantity of lard and add to it an equal quantity of turpentine and apply this freely to the surface. *Olive oil* is a good menstruum, but an increased proportion of this oil is required because of less density than the lard.

In all cases pain must not be caused by the *turpentine* applications. Its influence also upon the kidneys must be watched, and if difficult, painful or burning urination, or scanty urination occurs, or the least blood appears in the urine, it must be stopped at once, at least for a time. In large doses it produces nephritis, strangury and priapism. Inhaled constantly it will produce these symptoms in those otherwise healthy.

*Turpentine* has been used in passive hemorrhages. It prevents the **hemorrhage of typhoid** and controls hemorrhage in **gastriculceration**. It controls hematuria given in small doses, in some cases, and also the hemorrhage of scurvy and purpura hemorrhagica. In extreme persistent postpartum hemorrhage, after complete evacuation of the womb, it has been painted over the inner lining of the womb with immediate control of the hemorrhage. The conditions demanding its use in passive hemorrhage are great relaxation of tissue, lack of tone, dilated and atonic blood vessels, with constitutional depression-conditions permitting a passive transudation of blood.

In **catarrh** of the **bladder** it is an excellent remedy. It may be given in conjunction with other measures or suggested remedies. In all these cases the indications for other remedies should be promptly met to facilitate the action of this remedy.

*Turpentine* internally is a serviceable remedy for **leucorrhea**, either of a specific or non-specific character. It has long been used in the treatment of **gonorrhoea**, but is not the best of our remedies. In pyelitis with excessive mucous discharges, in gleet, in subacute gonorrhoea, it will allay the discharge occasionally when other agents have been inefficient.

Incontinence of urine from relaxation and feebleness of structure has been benefited by *turpentine*.

In the treatment of **dysentery** when the violent phenomena have been controlled, and in some exhausting diarrheas, *turpentine* will be found of much service. It is best given in small doses in such cases. It has been used in yellow fever and in cholera also.

*Turpentine* is applied to swellings from **chronicrheumatism** of the joints, to **plethoric swellings**, and slow forming abscesses.

It is of much value in **chilblains**, and, although painful, has been painted over small burned areas. It has been used in gangrene also with good results.

Erysipelas has been treated with *turpentine*, but we cannot commend its influence.

*Turpentine* is an efficient **anthelmintic** for the removal of taenia. It is given in a single full dose of from thirty to sixty minims upon rising in

the morning. It may be followed shortly by a tablespoonful of castor oil in a teaspoonful of hot milk. The patient should fast, until the oil operates. All nervous phenomena dependent upon the irritation caused by the presence of the worms will abate with the destruction of the worms. This is not due to any nerve sedative influence of the *turpentine*, however.

Whitford treated thirty cases of **trichina spiralis** at one time with the persistent use of *turpentine*. Five drops every three hours was sufficient. The diagnosis in the larger number of the cases was confirmed by the microscope. As every case recovered which was so treated, his confidence was naturally confirmed in this use of *turpentine*. At another time two parties were known to have eaten of a certain lot of pork which on examination was found teeming with trichina. Both were affected in the same manner and death seemed imminent. One was treated with *turpentine* and recovered; the other died. In nearly all of the cases, the beneficial results were plainly traceable to this remedy.

## **URTICA.**

## ***Urtica dioica.***

Synonym—Nettle.

### **CONSTITUENTS—**

Formic acid, or a substance closely allied to it, volatile oil, gum, starch, albumen, sugar, salts.

### **PREPARATIONS—**

**Specific Urtica.** Dose, from one to ten minims.

**Fluid Extract Urtica Dioica.** Dose, from one to twenty minims.

**Therapy—***Urtica* has been employed for the general purposes of ,an astringent, both internally and externally, in hemorrhages, **ill-conditioned ulcers**, and in chronic disease of the mucous membranes of the bronchi, bowels and urinary organs, and it is generally agreed to be an efficient remedy. It, however, appears to have a dynamic action, as in **post-partum hemorrhage**, **suppression** of the **milk** in **nursing women**, **retrocedent eruptions**, urticaria, jaundice, dropsy, ague and corpulency its influence in small doses is reliable.

The fresh leaves have been used as a powerful revulsive in lethargy, paralysis, intoxication, congestion of the brain, and hysterical insensibility.

From a half to one ounce of the expressed juice of the fresh plant has been given at intervals of a few hours without untoward results.

In the treatment of **eczema** which includes the face, head and scalp, one case was entirely cleansed and anointed with olive oil leaving the oil on until the crusts could be softened and removed. Specific *urtica dioica* was added, two drams to an ounce of rosewater, and applied freely over the parts. The cure was very prompt, especially when the condition of the stomach and intestinal tract was made normal.

This agent is also used when there is **excessive mucous discharge** from the bowels, a drop or two at a dose. Persistent watery diarrheas are controlled by it.

## **USTILAGO.** *Ustilago maidis.*

Synonym—Corn Ergot.

### **PREPARATIONS—**

**Fluid Extract Corn Ergot**, miscible with water. Dose, ten to thirty minims.

**Physiological Action**—The *ergot of maize* or common Indian corn is similar in its properties and in its physiological action upon the central nervous system and upon the capillary circulation of these organs, to those of the better known ergot of rye.

It is, however, not so irritating in its influence, for, while possessing power, it works in a smooth, even and pleasant, but positive manner. It produces uterine contractions of a perfectly regular, intermittent and safe character, thus possessing a great advantage over the *rye ergot*.

**Therapy**—It is a useful remedy in uterine inertia as it does not exercise the irritating influence of the *ergot of rye*. Its mild influence prevents any possible injury to the child, and it possesses a very small percentage of the oil of *ergot*, which is supposed to poison the infant. It conduces to **normal involution** and tonic and permanent subsequent contractions, with no increase, but rather decrease, of labor pains. It is also an efficient remedy in **post-partum hemorrhage**.

The writer has used it to most excellent advantage in metrorrhagia, and especially in the **hemorrhage from cancer** of the **uterus**, holding the





soothing in its influence upon the nervous system, especially upon the spinal centers. It is applicable in the **nervousness of depression** because of its gentle stimulating influence, and in these cases its influence is heightened by combining it with stimulants.

This result is effectually obtained from the valerianate of ammonium, which is the most active of the *valerian* compounds. In conditions where the nervousness is induced by hyperactivity—actual increased nerve force—or where there is organic disease, it is not the remedy.

The agent exercises a good influence in combination with *cimicifuga* in the treatment of **chorea**. Its influence upon **disordered motility**, although not marked, is similar to that of *cannabis indica*, *hyoscyamus* and *scutellaria*.

In **pruritus**, with nervous excitement from feebleness, it is a desirable agent. It has been used in stomach disorders and in diabetes, but its influence is not marked in these cases.

## **VERATRUM ALBUM. WHITE HELLEBORE.**

Synonyms—White Veratrum.

### **CONSTITUENTS—**

Jervine, pseudojervine, and protoveratrine.

### **PREPARATIONS—**

The dose of the **powder**, from one to eight grains.

A preparation of thirty drops of the **tincture** in four ounces of water, may be given in teaspoonful doses, to infants.

Twenty drops of an **ordinary tincture** is the dose.

**Specific Symptomatology**—Diarrhea with large watery discharges expelled with violence, spasmodic pains in the bowels, cramps, cramp colic, pain producing prostration, with cold skin, cold sweat and sunken eyes.

**Therapy**—This remedy, in small doses frequently repeated, is specific in **cholera infantum**, **cholera morbus**, and in various forms of acute **diarrhea**. It has some of the indications of arsenite of copper. It has been found beneficial in Asiatic cholera. It is not in general use. It was at one time given to act upon the skin and as an emetic. It is said to be found

beneficial in some forms of **nervous headache** and in cases of **mental derangement**.

It has been long in use, to destroy lice, and as an insect powder.

## **VERATRUM.**

## ***Veratrum viride.***

Synonym-American Hellebore.

### **CONSTITUENTS—**

Veratroidin, Jervine, Pseudo-Jervine, Rubi-Jervine, Cevadine, Starch, Resin.

### **PREPARATIONS—**

**Tincture Veratri Viridis**, Tincture of Veratrum Viride. Dose, from two to ten minims.

**Specific Veratrum.** Dose, from one-tenth to five minims.

**Physiological Action—**Taken in moderate doses, *Veratrum Viride* reduces the pulse rate in a marked degree, which becomes extremely rapid and feeble on any exertion; this condition is followed by severe nausea and vomiting, together with muscular weakness. Taken in a poisonous dose these symptoms are increased in severity, the pulse becomes almost imperceptible, the skin cold and clammy together with vomiting, retching, hiccough, faintness, dizziness, blindness and unconsciousness. These symptoms indicate that the drug is a powerful spinal and cerebral depressant.

Although *veratrum* is a powerful poison, it is so regular and uniform in its action, and so devoid of erratic and unaccountable or uncontrollable influences, that it can be given within the limits of its maximum dosage with safety.

In overdoses it produces vomiting, usually before enough is absorbed to produce serious results. It is not rapid or violent in its first effects and is not cumulative. It is quickly eliminated and the effects of single doses are transient. It can be watched even when the doses are large, and stopped before harm results. It is really the safest of our active agents. Its poisonous effects are easily antidoted. It is better given in small doses, repeated every half hour or hour, in acute cases, as its influence is exercised in a more uniform manner, is more permanent, is more easily controlled and is not so apt to disturb the stomach. A large dose produces

quick depression, although the effect is transient. If the dose be often repeated, the stomachic irritation quickly becomes so great as to interfere with all medication.

*Veratrum* is a better remedy for adults than for children. It is not as easily adapted to infants and the feeble as *aconite*, and its manner of action is not as satisfactory.

*Veratrum*, in its direct heart depression, resembles the coal-tar depressants, although much more regular and uniform in its action and perfectly controllable. It steadily slows the heart and circulation, the temperature declining correspondingly. Its influence upon the emunctories is not marked. *Aconite* influences the heat production and heat-radiation, stimulates all emunctories and the function of all the glandular organs and hastens the removal of inflammatory products. Effusion or suppuration are thus prevented, and if this agent is begun early, when the temperature has declined, there will be no local lesions remaining to contend with as the results of the inflammatory action.

*Veratrum* will assist in the removal of morbid products, but not with the immediate influence upon the results of inflammatory actions that are apparent from the use of *aconite*. It is an active eliminant which provides for its own elimination. *Veratrum* should not be given when inflammation has resulted in marked structural change and the products of inflammation are plainly present. Here *aconite* may be given as long as no general depression occurs.

**Specific Symptomatology**—*Veratrum* is indicated in the onset of **sthenic fever** when the pulse is full, large and bounding, and the tissues are engorged, where there is fullness of the capillary circulation.

It is especially serviceable when there seems to be **obstruction of the venous capillary circulation**. The face and skin are flushed, but usually of a full, dull, dark hue, and not always the bright-red flush with hot, dry skin which indicates *aconite* and *gelsemium*. The following indications suggest it.

- Tongue coated white or yellow with a red streak down the center.
- Congestion that occurs at the base of the brain.
- Convulsions that occur as a result of septicemia.
- Tissues full, not shrunken; marked arterial throbbing with bloodshot eyes.
- Erysipelas appearing like ordinary inflammation (red).

The skin is usually soft and covered with warm perspiration. In these cases *Veratrum* reduces the arterial pressure and permits, or even assists, the more rapid removal of the venous obstruction.

In administering *veratrum*, because of its direct action on the heart it is necessary, if given for a short time only, in full doses, that the patient remain in a recumbent position. In sthenic inflammations, especially such as results from infections—and this includes a long list—and exophthalmic goitre, it exercises a most delightful influence when given in small doses, frequently repeated, the patients should thus get the best results when in a recumbent position, but that position is not then obligatory.

**Therapy**—The characteristic indications for *veratrum* are found in the onset of **pneumonitis** in strong men previously healthy and vigorous. In these cases, given in doses of a drop of the tincture every half hour, it will slow the pulse and slowly reduce the temperature after four or five hours. This effect can be continued for a few doses longer, and then the doses should be smaller or given farther apart. The pulse should be slowed, in a case with violent premonitory symptoms, down to the normal beat and held there for awhile, and if the symptoms do not quickly abate, the influence may be continued until a pulse of sixty or fifty-five, or even, in a strong man, fifty beats is reached, if the stomach be not yet irritated.

In **pleuritis**, in **bronchitis**, in **peritonitis**, especially pelvic peritonitis from sepsis; in **hepatitis** and **nephritis** and **cystitis** always at the beginning of the acute stage before much structural change has occurred, it may be given, and will retard and often throw off the attack. It is of value in the earlier stages of **meningitis** and **cerebritis**, if given understandingly. If the violent heart action be controlled, the processes of disease and any tendency to convulsive action will be at once restrained.

In continued fevers this agent, like other depressants of nerve force, is not always the best remedy to use. The reactionary power of the nerve centers is greatly lowered by disease, and if depressants are given they are apt to still further decrease the nerve force and minimize its restorative influence over the system. Advantage will sometimes follow its early use in a case of extremely high temperature with violent and noisy delirium, but it is not the remedy to persist in nor to continue when the prostrating influence of the fever is apparent.

In **tonsillitis aconite** as an internal remedy is almost specific, but its influence is greatly heightened and the inflammatory stage shortened by applying **veratrum** with a camel's-hair pencil over the tonsils. Diluted-one dram in a half-glass of water it is an excellent gargle in any inflamed throat. In these cases it aborts the inflammation and determines immediate resolution.

In **erysipelas** it is of value both internally and externally. For external use in this disease a somewhat dilute non-alcoholic preparation is preferable, or the fluid extract, full strength or diluted one-half.

It is seldom that other applications will be needed, and the force and frequency of the heart's action can well be restrained by its internal use. If begun early in erysipelas, there are few conditions likely to arise that will contraindicate its use.

The first investigators into the properties of **veratrum** pronounced it an excellent alterative. It has not been generally used as such, but those who have so used it have expressed the strongest confidence in it. Prof. A. L. Clark, writing on the subject in 1889, said: "As an alterative, especially as an antisyphilitic remedy, there is no better agent in the vegetable kingdom. Indeed, there is room for doubt whether the animal, vegetable or mineral kingdoms furnish a better remedy in purely syphilitic cases. If the patient has been already saturated with mercury, as is too often the case, doubtless the administration of some of the preparations of iodine will be a necessary, adjuvant. In the uncomplicated secondary forms of the disease it will be seldom that any other remedy will produce as satisfactory results as can be obtained with the **veratrum** alone.

Of a reliable fluid extract four or five drops three times a day will be usually well borne by the stomach, and the sensitiveness of that organ is my sole guide in dosage. If four drops disturb the stomach use three for a few days, then increase to four, then perhaps to five. Its smallness of bulk, not disagreeable taste, and, above all, its satisfactory effects, constitute strong recommendations for its use." Perhaps its power in this line increases its efficacy the treatment of puerperal convulsions.

Its alterative and eliminative influence as well as its sedative power caused the older writers to say that **veratrum** would positively cure puerperal fever.

Other observers have spoken most highly of its action in developing **phthisis pulmonalis**. Positive claims are made that, judiciously administered, it has aborted the disease.

While I have spoken against its use in continued fevers, there are several writers who have given it in full doses at the **onset of typhoid fever**, while *sthenia* was yet present, and have had most salutary results.

In the early stages of **acute rheumatism**, its indications are present sometimes quite conspicuously, and if given in emphatic doses, it will sometimes quickly terminate the disorder. In articular rheumatism, it may be applied freely, externally, over the swollen and inflamed joints.

In the treatment of **rheumatic fever**, one writer says that when with the fever there is rapid strong pulse, caused by the toxins, *veratrum* used as a sedative is especially valuable because of its alterative properties, exercising a double influence, removing the causes of the disorder as satisfactorily as any other known remedy.

It is given in **sthenic inflammations** with the above symptoms, in **erysipelas** with general symptoms of inflammation, with a red stripe through the center of the tongue; in **nervous irritation**, with threatened convulsions; usually those which have suddenly appeared. In these cases the pulse is rapid, but may be full, or it may be corded or sharp, hard and wiry.

In cases where there is previous **gastric irritation** usually shown by a long, narrow and pointed tongue, with red tip and red edges, the agent will not be of benefit, but will increase that condition. Where there is **nausea** from the presence of undigested or foreign matter in the stomach, the rapid pulse, etc., being present, its action may be beneficial. In these cases the tongue is usually pale, broad and thick.

For **bilious colic** Dr. Bates wrote some years ago that he relied upon this remedy.

There are some cases of **chorea** in which *veratrum* will serve an excellent purpose. These cases are more or less acute in development, and are usually very violent. The heart is irritable and the pulse rapid.

Dr. Woodward speaks very highly of *veratrum* in the treatment of **asthma**. In spasmodic cases he is confident of its beneficial influence, but he has

given it principally in those sthenic heart cases where asthmatic breathing has developed within a few days and persists. He gives one or two drops every hour unless unfavorable symptoms occur. He expects favorable results within a few hours. It is a remedy for some cases of **hay asthma**.

The old writers cautioned against giving large doses of quinine and *veratrum*, at the same time, as their influences were antagonistic, and Dr. Percy claimed that it was a positive antidote to strychnine poisoning, quickly controlling the spasms and assisting the elimination of the poison.

A satisfactory cure of **tetanus**, with *veratrum* and *gelsemium*, has been reported. The case was one of a young girl, 14 years old, attacked after an operation, for the removal of the ovaries, with a most severe form of tetanus. The case presented the classic symptoms in the extreme. When paraldehyde, morphine, chloral and the bromides had failed, the antitetanic serum was used. This also failed, and the patient was put upon *veratrum*. Small doses failing, larger doses were given in conjunction with *gelsemium*. Eight minims of each every hour was given per rectum. The effect was prompt and satisfactory, but the agent was discontinued because of vomiting, when the symptoms returned. Ten minims of *veratrum* and eight minims of *gelsemium* were then given every hour, and the symptoms were promptly controlled. There is no doubt that the powerful alterative properties of *veratrum* add greatly to its efficacy in the control of tetanic mid puerperal convulsions.

It is useful in **acute gonorrhoea**, preventing **chordee** and abating the activity of the symptoms. It is as useful also in orchitis from whatever cause.

It is a valuable application in localized inflammation, such as boils, carbuncles, felons, ulcers with heat and swelling, "cold sores" on the lips and inflamed pimples.

The use of *veratrum* as an antispasmodic is now quite common. It may be given in **convulsions** with active cerebral hyperemia. It is especially reliable as an emergency remedy in persistent cases of convulsions in childhood while the cause is being removed, its influence often assisting in the removal of the cause. From one drop to three or four may be given at a single dose, according to the age of the child, and repeated with caution.



In **puerperal convulsions** the mass of evidence in favor of *veratrum* is overwhelming. One old physician reported in the Medical Record (1888) an experience in the treatment of an average of eight cases per year for twenty-eight years, without the loss of a patient, with *veratrum* alone. Another treated twenty-three cases with *veratrum*, with recovery in all. In these cases full doses are given, closely watching the effects on the stomach, if given per os, and always watching its effects upon the heart. A dose of five drops can be repeated every half hour for three or four doses. At times five drops have been given every half hour for four or five hours. This important influence is exercised through its power to control blood pressure-reducing arterial tension. It is best used hypodermically.

In many severe cases with **active cerebral engorgement** as much as fifteen drops have been given hypodermically and repeated after a time.

Three drops of the tincture of *veratrum* twice daily, gradually increasing the dose to twelve drops, then gradually reducing, may be given with care in a desperate case of **exophthalmic goiter** with **tachycardia**. This agent at such a time is important. It will usually control the rapidity of the pulse in a satisfactory manner while it materially assists in antidoting the toxins, and thus conduces to the action of other indicated remedies.

In its influence upon exalted activity of the heart, *veratrum* is of service in **palpitation** from temporarily increased functional power of the heart—the irritable heart of otherwise strong, vigorous men—the violent action induced by the use of tobacco in some cases inducing high arterial pressure and the palpitation of hypertrophy without valvular incompetence. It is likewise valuable in **aneurism**, restraining hyperactivity by reducing the vasomotor tonus. In these cases a dose of from three to four drops four times each day will do better than the small and frequently repeated dose.

## **VERBASCUM.**                      *Verbascum thapsus.*

Synonym—Mullein.

### **CONSTITUENTS—**

Mucilage, volatile oil, fat, sugar.

### **PREPARATIONS—**

**Specific Verbascum.** Dose, from five to sixty minims.

A preparation may be prepared extemporaneously by breaking off the upper portion of the blossoms of the *mullein* and putting them into a glass jar and allowing them to stand in the sun for a few days. The mass is then strained through muslin. The juice extracted by the above or other process is called an oil or **mulleined oil**, but does not possess all the properties of an oil.

**Therapy**—The most direct use of this agent is in the treatment of simple uncomplicated cases of **deafness**, or in the early stages of progressive deafness where the cause is not apparent. In these cases, from, two to five drops in the ear, three or four times each day, will stop the progress of the disease, and will cure many simple cases. In its local influence, it softens and facilitates the removal of hardened secretions, stimulating the nerve structures at the same time. It has positive anodyne properties, and is curative in a large number of the ordinary cases of **earache** in children, acting often more quickly than other and better 'known' agents, and is used with perfect safety, as it has no irritating or toxic properties.

Used in the treatment of **ulcerations** of the ear, where there are fetid discharges, it is of much value in allaying pain and promoting the action of other antiseptic and healing remedies. In the treatment of the simple ear troubles of childhood, it accomplishes alone that for which complex formulae are otherwise necessary.

*Mulleined oil* has a wider influence, however, than its use in the **disease of the ear**. It has been used in **rheumatic** conditions to an extent, and I am of the opinion that properly developed in this line, it will be found a serviceable remedy. Internally, the specific medicine or the infusion exercises a diaphoretic and diuretic influence, and is soothing to the nervous system.

This agent is often used in **irritation** and **inflammation** of the **urinary apparatus**, acting in harmony with *hydrangea*, *gelsemium* or other antispasmodics in **stricture** from irritation. It is useful also in acute catarrh, either of a specific or non-specific origin, in catarrhal cystitis, and in some cases of pyelitis and catarrhal nephritis. It has been used also in bronchial irritation and in asthmatic **bronchitis**. In uncomplicated **asthma**, especially the paroxysmal form, *mullein leaves*, mixed with *stramonium* and potassium nitrate and smoked through a pipe, will often give prompt relief. The smoking must be suspended if vertigo supervenes.

The agent has long been a domestic remedy in the treatment of **rheumatism**. A fomentation is prepared from the leaves or the steam from a decoction is confined to the part, or compresses are wrung from a strong infusion of the leaves, and applied.

One-half drop doses of the *mulleined oil* four times a day has overcome some **dribbling** of the urine. This remedy seems to be serviceable as an external application to inflamed glands.

Dr. Mathews says that this is an excellent agent in the treatment of conditions where there is **persistent acidity** of the urine, especially if it produces pain or strangury.

*Verbascum* is useful for the treatment of orchitis. It can be used internally and externally.

## **LEPTANDRA.**                      *Leptandra virginica.*

Synonyms—*Veronicastrum Virginicum*, Linne; Culver's Root.

### **CONSTITUENTS—**

Leptandrin, resin, saponin, tannin, mannite, gum, citric acid, volatile oil.

### **PREPARATIONS—**

**Resin of Leptandra**, Leptandrin. Dose, from one-fourth to one grain.

**Extractum Leptandrae Fluidum**, Fluid Extract of Leptandra. Dose, from twenty to sixty minims.

**Specific Medicine Leptandra**. Dose, from one to twenty minims.

**Specific Symptomatology—Malaise** from malarial influence, soreness on pressure in the right hypochondrium, with wide dullness on percussion, constipation, full abdominal tissues with inactive intestinal glands, torpor of the liver, anorexia, dull headache. Also in cases in which there are marked vertigo, cold extremities and cool skin, dull pain in the bowels, gloominess or mental despondency and depression, disinclination to work or even move, great lassitude.

**Therapy—In malarial conditions** no cathartic is more efficient than leptandra. It may be given in full doses, and there is no irritation from its action. It certainly increases the discharge of bile and stimulates and

greatly improves the function of the liver.

In **ague** when quinine is given as an antiperiodic, if from one-fourth to one grain of *leptandra* be given with each dose in the intermission, the effects are much more marked and the influence is more permanent. It is demanded in **malarial fevers** of all kinds, and especially in remittent fever. It is given alone at the onset of the attack as a laxative and in the remission, in small doses in conjunction with the antiperiodic, proving a most valuable auxiliary to the treatment. As an addition to vegetable tonics when malarial conditions prevail, it improves the **tone** of the entire **gastro-intestinal canal** and increases the functional activity of the **glandular organs**. In some cases small doses in wine will produce excellent results.

In the treatment of **jaundice** it is a valuable auxiliary, and combined with the tonics here indicated its influence is most desirable. It clears the skin, produces **black alvine evacuation**, and assists in overcoming the entire train of symptoms.

*Leptandra* has no superior in a case of this character and must be used freely to be appreciated. It is certainly under-estimated.

## **VIBURNUM.**

### ***Viburnum opulus.***

Synonyms—Cramp Bark, High Cranberry, High-bush Cranberry.

#### **PREPARATIONS—**

**Fluid Extract High Cranberry.** Dose, from ten to thirty minims.

**Specific Symptomatology**—The specific influence of the agent is exercised in relieving **irregular spasmodic** pains of the **womb** and **ovaries**. It is antispasmodic in its action upon the entire pelvic viscera, influencing **spasmodic contractions** of the **muscular structure** of the **bladder**, and **spasmodic stricture** to a limited extent.

One of its specific indications is **pain** from the pelvic organs which begin in the back, extending through to the loins and down the thighs. This is corrected with twenty drops every hour or two. If this is accompanied with severe or profuse menstruation with a sensation of dragging weight in the back, the pains extending clear around the body, a drop or two of *cimicifuga* or ten drops of *helonias* with every dose will relieve the pain.

**Therapy**—Given prior to labor it is a partus preparator of much value, but its action is limited largely to its antispasmodic influence upon erratic pains. It is given with much benefit in severe after-pains, in hysterical conditions, with convulsive phenomena, and in spasmodic dysmenorrhea. It is of advantage in that it prevents miscarriage., but to an extent greatly inferior to *viburnum prunifolium*, which agent, in fact, fully covers the field of operation of this agent, except in its anti-spasmodic influence.

## **BLACK HAW. *Viburnum prunifolium.***

Part Employed—Bark of the root.

### **CONSTITUENTS—**

A brown resin, viburnin, valerianic, tannic, oxalic, citric and malic acids, sugar, earthy carbonates and phosphates.

**Viburnin**, a greenish-yellow, bitter principal, resinous, soluble in alcohol, sparingly soluble in water.

### **PREPARATIONS—**

**Extractum Viburni Prunifolii Fluidum**, Fluid Extract of Viburnum Prunifolium. Dose from half a dram to one dram.

**Specific Medicine Viburnum**. Dose, from five to sixty minims.

**Physiological Action**—Its influence is exercised upon the womb, regulating its function and soothing irritation. The agent has not had thorough study to determine its exact physiological action. It however exercises its influence through the nervous centers, soothing nerve irritation and possessing marked antispasmodic properties. It influences the motor side of the cord, producing progressive muscular weakness, loss of reflex action and ultimate paralysis. It apparently directly influences the action of the heart, as it lowers arterial pressure to a marked degree.

Its sedative influence upon the nervous system is conveyed to the uterus and appendages and there becomes apparent. It overcomes all forms of nervous irritation, and irregular functional action in these organs. It is the direct remedy for nervous conditions of the pregnant state.

**Therapy**—It is the remedy for dysmenorrhea, especially that characterized by cramp-like pains of spasmodic character. It promotes normal uterine contractions and antagonizes those of an irregular

character. It is valuable in menorrhagia and metrorrhagia, either of an acute or a passive character. In all of these cases its use should be begun a few days in advance of the anticipated disorder and continued through and beyond the menstrual period.

*Viburnum prunifolium* is especially a uterine sedative in **threatened miscarriage**. It is particularly indicated in **habitual abortion**, preventing an anticipated occurrence and permanently overcoming the habit. I have had practical experience extending over thirty years, and have perfect confidence in the agent based on repeated success. In one of my cases it caused the womb to suspend expulsive action and to retain a dead fetus for months; given in large doses after the fourth month no return of the expulsive effort occurred until the seventh, when the agent was discontinued, after which a four-months mummified fetus was expelled without detriment to the health of the patient. She had decreased in size since the fourth month and there was no fetal movement. The agent, when there is no habit of abortion, will probably accomplish the desired result if begun after hemorrhage has continued some hours, if the membranes are not detached or the sac ruptured.

Doses of one dram of the fluid extract every hour are necessary until the pain subsides or the flow ceases. The patient must be kept in a recumbent position and perfectly quiet. It is safer to begin either preceding, or with the flow in these cases.

In habitual cases it is necessary to give the agent in occasional doses for one, two or more weeks preceding the time of the miscarriage, which usually occurs each time at the same month of the fetal life. As the time approaches the patient is kept quiet and free from excitement, and the agent is given three or four times daily. The interval is shortened to one or two hours with the first suspicious indications at the usual time. If no symptoms appear the agent is continued beyond the period, and then perhaps in daily doses only for a week or two longer. The physician should advise the patient to remain constantly on the watch for indications suggesting the necessity of an increase in the doses. The agent will stop induced miscarriage, as well as other forms, if no injury has been done to the membranes.

In small doses, it is an excellent **partus preparator**, materially improving the conditions when irregular and distressing symptoms are present and greatly facilitating a speedy and uncomplicated normal labor. It controls **after pains** and prevents **post-partum hemorrhage**. It insures normal

**involution** and assists in retaining a normal position of the womb subsequently, where malposition had previously existed.

In its influence in overcoming reflex nervous disturbances, it is often most efficient in controlling the **morningsickness** of pregnancy and the entire train of distressing symptoms present at this time. It changes the mental condition of the patient from that of depression and despondency, to one of cheerfulness and hopefulness.

There is probably no proprietary remedy advertised for female complaints, and for promiscuous use in cases of this character, that does not contain **viburnum prunifolium** as the basic remedy. Its field of usefulness is a wide one as far as the genito-urinary apparatus is concerned.

It is the remedy for **sympathetic disturbances** of the heart, stomach and nervous system, common to sensitive ladies with irritable nervous systems, preceding or during the menstrual epoch, depending on vasomotor derangement. It must be given in advance and continued through the period.

In a number of cases, when given for menstrual irregularities, or for the distress induced by **uterine displacement**, in previously **sterile females**, pregnancy has promptly occurred, proving the influence of the agent in restoring normal functional ovarian activity.

It must not be overlooked in the treatment of **irregular sudden, menstrual flow**, occurring during eruptive and low continued or violent inflammatory fevers, especially in young ladies. This occurrence is not uncommon in smallpox, scarlet fever, diphtheria, measles, pneumonitis, pleuritis, phthisis and typhoid fever. It is sometimes of serious import, and masked sepsis undoubtedly occurs in the cases, with severe peritonitis or metritis, to which the patient may succumb. With antiseptic douches and disinfectant measures, **viburnum** internally is the surest remedy known, in this condition. It is given in conjunction with other indicated remedies, and its use must be begun promptly upon the appearance of the flow.

**Viburnum** is well classed among **the tonics**, as there is usually a general improvement in all the body functions while it is taken which is usually permanent. It has a very satisfactory effect upon derangements of the stomach and intestinal tract, especially in females when the whole system is out of tone. It restores the nerve influence, improves the

circulation, supplies nutrition to the womb and ovaries. It is valuable in dysmenorrhea which is due to debility.

It is mildly efficacious in irregular muscular movements, in **chorea**, especially if occurring from early menstrual derangement, and in some cases of **paralysis agitans**.

It is advised in hysteria, hystero-epilepsy, and petit mal, but its influence is mild. It will act in harmony with *cimicifuga* and *passiflora* and the bromides in these cases. It is an agent of great usefulness, and its field broadens with every practitioner, as his knowledge of its influence increases with practical experience in its use.

## **MISTLETOE. *Viscum album.***

Synonym—*Viscum flaviscens*.

### **PREPARATIONS—**

**Tinctura Visci Albi**, Tincture of Mistletoe. Dose, from five to sixty minims.

**Extractum Visci Albi Fluidum**, Fluid Extract of Mistletoe. Dose, from five to forty minims.

**Specific Mistletoe**. Dose, from one to ten minims.

**Administration**—The remedy has failed because the agent used was inert, dried and, perhaps, old. The preparations must be made from the green plant, and the dose must be sufficiently large and frequently repeated. In some cases it may be necessary to repeat the dose every fifteen minutes.

**Physiological Action**—Several cases of severe poisoning from eating the leaves and berries are on record. It produces vomiting, prostration, coma, contraction of the pupil, with muscular spasm. In other cases it produces tenesmus, bloody stools, convulsions, emesis, catharsis and death.

In its influence both upon the cerebral circulation and upon the womb and reproductive functions it acts similarly to *ergot*.

In 1880 Dr. Brodnax of Louisiana experimented with this remedy to determine its action on the final pains in labor in animals, especially with cows. The results were so satisfactory that he finally used it instead of *ergot* almost exclusively.



It has long been known to exercise oxytocic powers. Brodnax believes that it may be given at almost any stage of the labor without harm.

**Specific Symptomatology**—It is indicated where there is a flow of blood to the brain, and frequent headache and flushing of the face. In hysteria, epilepsy and other nervous diseases; in paroxysms of tearing and rending pains, rheumatic and neuralgic, it is a pain subduer of much power.

With the above conditions it is exceedingly valuable in diseases of women, in **amenorrhea**, **dysmenorrhea** and as an **oxytocic**. Its influence is, perhaps, more marked in labor than when prescribed for any other condition.

**Therapy**—In its action on the **womb** it is in some particulars superior to *ergot*. It is a drug capable of producing **intermittent uterine action**, as distinguished from the tonic contractions caused by some other oxytocic medicines.

It exerts its full force on the long muscles of the uterus, acting on the fundus mainly, while the cervix remains soft and uncontracted.

It may be given early in labor to give tone to the contractions; does not act spasmodically, but steadily and for a long time; it is not followed by any untoward effect; does not, like *ergot*, produce hour-glass contractions; has a tendency to keep the womb contracted after the expulsion of the placenta and attachments; does not act on the circular muscles of the womb; is a safe oxytocic, as the effects can be continued for hours with small doses.

Tascher, in 1892, reported the results of his observations of the action of this agent upon the **heart**. He became convinced that it was an agent of undoubted merit. He has used the fluid extract in doses of from twenty to thirty minims as a remedy for hypertrophy of the heart, with valvular insuf. ficiency, dropsy of the extremities, small weak pulse, dyspnea, and inability of the patient to rest in a reclining position, and witnessed astonishing relief from this agent when others failed. Under its use in the above named conditions the pulse became full, strong and regular, the cardiac dyspnea was arrested, and the patient able to obtain rest in a reclining position. In some cases, when given in large doses, it produced marked diaphoresis, increased flow of the urine and serous discharges from the bowels, results desirable in all cases where **dropsy** was

associated with the disease, and a combination of therapeutic action not readily obtained in any other cardiac tonic.

Its diaphoretic and cathartic action cannot be relied upon in every case, but as a cardiac tonic it is most efficient.

A recent writer has used this remedy in the treatment of **chorea**. He has treated several cases of long standing and very persistent. He gives five drops of the fluid extract of this remedy every two hours.

In the treatment of several cases of spasm in children, he has used this same remedy as an antispasmodic, and has obtained very good results.

In the latter stages of **typhoid fever**, when the heart's action is weak, rapid and irregular, with a tendency to **collapse**, given in conjunction with strychnia, the condition of the patient rapidly improves.

This remedy is recommended for the **reduction of blood pressure**. A high authority has suggested that one grain of the aqueous extract of this substance be added to ten grains of distilled water and that combined with two ounces of simple syrup, from one to two teaspoonfuls can be given at a dose as indicated in that particular patient. This gives one-fifth of a grain of the extract at a dose, especially recommended where there is arteriosclerosis.

## **XANTHIUM.**

### ***Xanthium spinosum.***

Synonyms—Cocklebur, Clotbur.

#### **PREPARATIONS—**

**Extractum Xanthii Fluidum;** Fluid Extract of Xanthium. Dose, from ten to twenty minims.

**Specific Medicine Xanthium.** Dose, from five to fifteen minims.

**Physiological Action**—The agent has mild diuretic, diaphoretic and sialagogue properties. *Xanthium* is mentioned as a remedy influencing the blood in malarial conditions, tending to overcome periodicity. As an alterative some enthusiastic writers give it high rank, even claiming that it will cure hydrophobia. It is advised in hemorrhages of a passive character, to be relied upon even in post-partum hemorrhage. In the writer's hands it has an influence which would seem to be advantageous in **hematuria** of a passive character, as it has a soothing influence upon

the urinary apparatus.

**Therapy**—Dr. Homsher suggested its use in irritable bladder troubles; specifically in **chronic cystitis**, with thickening of the bladder walls, with frequent urination, painful tenesmus, constant sensation of weight in the region of the bladder, with the continued passage of minute calculi, cases in which there are doubtless sand or gravelly deposits in the folds of the bladder, perhaps imbedded in the mucous structure, a condition not uncommon in females.

**ZANTHOXYLUM.**            *Zanthoxylum americanum*  
                                  *Zanthoxylum clava-herculis*

Synonym—*Xanthoxylum*, Prickly ash.

**CONSTITUENTS**—

Zanthoxylin, volatile oil, resin, bitter principle, tannin, sugar.

**PREPARATIONS**—

**Extractum Zanthoxyli Fluidum**, Fluid Extract of Zanthoxylum.  
Dose, from half a dram to one dram.

**Specific Medicine Zanthoxylum.** Dose, from five to six minims.

**Physiological Action**—This agent is a stimulant to the nerve centers, and through these centers it increases the tonicity and functional activity of the different organs. It is diffusible, producing a warm glow throughout the system and nervous tingling, as if a mild current of electricity was being administered.

It has a direct tonic effect upon the heart, and it mildly stimulates the capillary circulation throughout the entire body, overcoming blood stasis and congestion. In diseases of an exanthematous character it causes the rash to appear promptly and prevents its recession. It will sustain the vital forces through any crises that may occur.

*Zanthoxylum* in certain lines acts similarly to strychnine; in others it is superior to strychnine, having a wider action. In its effects on the capillary circulation it resembles *belladonna* or atropia, without the toxic properties. It must be well known to be thoroughly appreciated.

**Specific Symptomatology**—It is a specific when there is lack of tone in

the nervous system—a general torpidity with sluggish circulation; in enervation and relaxation of mucous membranes, with imperfect circulation, or hypersecretion. It is thus valuable in catarrhal conditions of any mucous surface, as it restores the tone and normal functional activity.

In all conditions of the bowels where tympanites is present it is specific, quickly relieving this condition. King used it extensively in the cholera epidemic of 1849 with excellent results.

**Therapy**—It is a remedy for **catarrhal gastritis**. In general atonic conditions of the digestive apparatus, combined with *hydrastis canadensis*, it has no superior. It has a powerfully tonic influence upon the stomach and digestion, and improves the general nutritive functions of the system. Whitford gives it as a **tonic** in all conditions of **weakness**, depending upon malnutrition, accompanied with **chronic dyspepsia**, especially if catarrhal gastritis be present. The following is his method of combining the remedy:

**Rx**—Powdered *hydrastis*, two drams; precipitated carbonate of iron, one dram; tincture of *zanthoxylum*, one-half ounce; simple elixir, sufficient quantity to make four ounces. Take a teaspoonful after meals and at bedtime. The writer has used a similar combination, the active constituents in a capsule, every three -hours with most excellent results. This formula is especially applicable as a restorative after **debilitating fevers** and after prostrating diarrheas, or after dysentery. It works promptly and satisfactorily with children. The alkaloid hydrastine may be substituted for the powdered *hydrastis*, where prescribed in capsules.

This agent, with the older practitioners, was considered a most valuable remedy in **rheumatism**. Its stimulating diaphoretic action, with its restorative and tonic influence, placed it high in the estimation of many as a remedy in this condition. It is valuable in combination with such remedies as *colchicum* and *cimicifuga*.

As an alterative it had a wide use at one time. It was usually combined with *stillingia*, *yellow dock* or *phytolacca*, and often the iodide or acetate of potassium was added. It serves an excellent purpose in **scrofula**, and in some cases of chronic skin disorder, from disordered blood.

## **ZINGIBER.**

### ***Zingiber officinale.***

Synonym—Ginger.

**CONSTITUENTS—**

Volatile oil, resin, starch, gum, gingerol.

**PREPARATIONS—**

**Extractum Zingiberis Fluidum**, Fluid Extract of Ginger. Dose, from ten to thirty minims.

**Oleoresin Zingiberis**, Oleoresin of Ginger. Dose, from a half to one minim.

**Tinctura Zingiberis**, Tincture of Ginger. Dose, from fifteen to sixty minims, diluted with water.

**Infusum Zingiberis**, Infusion of Ginger, prepared by adding a teaspoonful of powdered ginger to half a pint of hot water. Drunk at once, it acts as an emetic and diaphoretic.

**Physiological Action**—This agent is mentioned in but few therapeutic works, although it occupies an important place, and should not be neglected. It is a profound and immediate stimulant, an active diaphoretic, an anodyne in gastric and intestinal pain, and a sedative to an irritated and overwrought system when there is extreme exhaustion. An infusion of the powder drunk warm produces immediate but mild emesis and active diaphoresis.

**Administration**—*Ginger* is an emergency remedy. In every case in which brandy or whisky is given to produce an immediate stimulating influence, the tincture of *ginger* can be given with even better results. From half a teaspoonful to a teaspoonful will produce greater stimulation than half an ounce of brandy. It may be stirred into half a glass of cold water, but is much more immediate in its action if given in hot water. The tincture does not produce emesis.

**Therapy**—The agent stimulates the stomach actively, producing, a pleasing sense of warmth. It overcomes flatulence and quickly relieves **flatulent colic**. In **atonic conditions** of the **stomach** and intestinal tract, it stimulates the structure to renewed activity and materially assists in the restoration of normal tone. It relieves pain from any cause except inflammatory action, when this remedy must be avoided.

In **acute colds** the entire train of symptoms may be aborted in a single night, by advising the patient to take a hot *mustard* foot bath at bedtime, while the body, prepared for bed, is wrapped in warm blankets. During the

foot bath the patient should drink a glass or two of hot water, each of which contains half of a dram of the tincture of *ginger*.

Acute inflammations may be aborted by this course. In **dysmenorrhea**, **ovarian neuralgia** and **uterine pain** from any cause at the menstrual epoch, this agent is reliable. If given at the beginning of an **hysterical attack** it will often abort the attack, and produce quiet and restful sleep.

Its influence as a rubifacient is slow and by no means as satisfactory as *mustard*, and it is now seldom used as a counter-irritant.