

Their experiments were made on the insane. They find that papaverine exercises upon man a decided soporific action, and, at the same time, diminishes muscular activity. It reduces the frequency of the pulse in all cases. and its calming action is not preceded by a period of excitement. It never causes nausea, vertigo, headache, or constipation, but, on the contrary, tends to reduce these symtoms. It generally acts slowly, about four to seven hours after adminstration. It may be given subcutaneously in the form of hydrochlorate. Dr. Stark fully confirms these observations; he administers it in doses of 1 to 2 grains by hypodermic injection, and considers it to be constant and simple in its action. - Pharm. Jour.

Note upon Apomorphia and Ohlerocodide.

Last May I read before the Clinical Socicty a short account of the therapeutical properties of apomorphia, a new base which had been discovered, the previous month, by Dr. Matthieson. In No. 112 of the "Pro-ceedings of the Royal Society," there ap-peared two papers by Dr. Matthieson and Mr. Wright upon the chemistry of apomorphia. In this place I wish to add a few therapeutical facts, gained by subsequent experience.

Every trial has confirmed the statement that apomorphia is a most powerful emetic and contrastimulant. To the best of my knowledge, apomorphia has nover been administered as an emetic dose (namely, 1-10 grain subcutaneously or } by the mouth) without producing speedy comiting. On one occasion the vomiting occurred eighty seconds after the injection. But there is a drawback to the value of apomorphia used as an emetic, and that is the contrastinulant effect produced at the same time. Not that the latter effect always occurs, far from it; but sometimes it does occur to a an extent such as to cause anxiety on the part of the person who has made the injection; the patient seems as if his muscular power were gone; the vascular system, however, does not appear to be depressed to an equal extent. The strength of the patient has nothing to lo with the occurrence or not of the sedative effect; the strongest men sometimes suffer greatly, and the weakest sometimes escape. It is, perhaps, not surprising that an emetic of the activity of apomorphia should be depressing, and the more so since it is clearly an emetic which does not act by causing direct gastric irritation (sub-inflammation). but which acts as blows upon the head, foul sights or smells, or mere imaginations act. In some cases the production of a state of depression is even to be desired; emetical laws often been used to that end.

As a contrastimulant, apomorphia does not possess any special advantage, except that the alimentary canal is not inflamed, as is the event when antimony and veratria are given. But my experiments in this direction are very few, and this chiefly on account of the costliness of the drug. Owing to difficulties in the preparation of apmorphia, the produce does not weigh more than a tenth part of the morphia employed in the manufacture. The present price of morphia being five-andtwenty shillings on ounce, the value of apo-morphia comes to be something beside which nurum potabile fades into insignificanco. This does not matter when single tenths of a grain are used to produce vomiting: the expense arises when larger doses are frequently given by the mouth. Let us hope that the chemists will soon surmount these difficulties.

Apomorphia can be procured from codeia. An intermediate compound, chlorocodide, is formed.

Experiments show that the properties of chlorocodide and of codeia ore identical, salivation and dilatation of the pupils being the symptoms most easily produced; larger doses causing extreme restlessness, and very large doses proving fatal after a state of mixed paralysis and spasm both tonic and clonic; consciousness being unaffected. The only property of chlorocodide that holds out any promise of being useful in medicine is the extreme bitterness of the base, almost equal to the bitterness of strychnia, while the dose of chlorocodide which is required to produce tetanus in the human being must be enormous (if we may argue from the cat) compared with the dose of strychnia required. A quarter of a grain of chlorocodide taken by the mouth causes an uncommon sense of tonicity in the abdomen. Quina, which is so often given as a stomachic, is a much less intense bitter than chlorocodiae, and tends to produce fulness and aching of the head which chlorocodide does not .- Dr. S. J. Gee in Burtholomew's Hospital, Reports.

Therapeutic Uses of Thymic Acid.

Writing in the Union Pharmaceutique, M. le Dr. Paquet states that this acid, which is allied to carbolic acid, is a remedy of immense value to the surgeon. He describes its effects on healthy and morbid tissues, and draws the following definitive conclusions as to its uses. -(1) Thymic acid deserves to hold a high place among th. antiseptic preparations used in treating wounds. (2) In its concentrated form it is an excellent substitute for mitric acid and nitrate of silver. It is especially superior to phenic acid, because it has not got its extremely disagreeable odour. (3) In aqueous solution (1 in 1000), to which a few grammes (a gramme is equal to 15.4 grains) of alcohol have been added, it is extremely useful in furthering the cicitrization of wounds. It is especially serviceable in those cases in which tincture of iodyne is generally employed .- Practitioner.

Action of Yeratrin.

A very careful investigation of the therapeutic properties of veratrin has recently been made by M. Pégaitaz, who has published his results in the Deutsches Archle fur Klinik Mecidin for last month. He describes its effects both when taken internally and when subcutaneously injected; and finds them almost precisely the same, being as fol-tows:—In the calier stage, excitation; sub-sequently, depression. Then follow in succession, salivation, nausea, sensation of choking, vomiting, and usually diarrhica. The voluntary movements become unsteady, the thic practice, is being energetically advocated want af power displaying itself first in the in the Royal Academy of Belgium, by M. posterior, and subsequently in the anterior le Dr. Burggrave. His arguments are not limbs; accompanying this there appeared to very persuasive, nor are the facts adduced be a certain degree of stiffness. There were numerous; but such as they are, our readers coincidently exaltation of the reflex sensibility and diminution of the sensibility. The Royale de Médecine de Belgique, -Fractitioner. temperature, the number of the respiratory acts and of the beats of the heart, were all transiently diminished. Convulsions and tetanus finally set in; but careful examination failed to discover any indications of in- placed in the car, the passage being then flammatory mischief.

with a view of testing its applicability as a remedy which might be used hypodermically, seem to have been unsatisfactory; showing that whilst it acts in this was similarly to its operation when given by the mouth, yet the injection produced very great pain .-Lancet.

Substitute for Chlorodyne.

Mr. Edward M'Inall, a pharmaceutist of Philadelphia, recommends the following as a substitute for the chlorodyne of J. Collis Brown.

Sulphate of morphia, gr. lxiv. Alcohol (ninety-five per cent.), f. oz. ij. Purified chloroform, f. oz. vj. Sulphuric acid, q. s.

Extract of cannabis indica (Allen's), dr. ss. Eleo-resin of capsicum, gtts. xij. Hydrocyanic acid (Scheele's), gtts. xevj.

Shake together the sulphate of morphia, alcohol, and chloroform, then add the sulphuric acid, shake well until it becomes clear, then add the oleo-resin of capsicum, extract of cannabis, and hydrocyanic acid.

This forms a clear dark green liquid, pos-sessing the acrid taste of capsicum, and the odour of chloroform. A drachm contains about a grain of the sulphate of morphia, and the dose is given at from fifteen to thirty drops (minims) .- New York Journal of Medicine. - Braithwaite's Rotrospect.

Apomorphia.

This base is procurable from codeia, which it resembles in chemical constitution. It is one of the most certain emetics known, onetenth of a grain subcutaneously, or \(\frac{1}{2} \) grain by the mouth, being the dose required. The disadvantages of it is that it is a depressant in some cases, the patient seeming as if his muscular power were gone; the vascular system, however, does not appear to be depressed to an equal extent.—Braithwaite's Rotrospect.

Coffee.

Brazil is the greatest producer of coffee. That known in the trade as Rio is a Brazilian product. Of the 713,000,000 pounds produced by the world per annum, Brazil furnishes 400,000,000, or more than half of the whole; Java 140,000,000, Ceylon 40,000,000, St. Domingo 40,000,000, Cubs and Porto Rico 25,000,000, Venezuela 25,000,000, Sumatra 25,000,000, all others, including the Mocha, 18,000,000. The United States is the greatest consumer. We use in the United States nearly one-third of all the coffee consumed in the world, using nearly seven times as much as Great Britain, with a population not very far from the same. Germany comes next.

The Atomistic Method of Administering Drugs.

This mode, which is part of the homeopawill find them in the Bulletin de l'Académie

A Cure for Earache.

Tincture of digitalis has been recommended for this purpose. One or two drops are Experiments made closed with a piece of cotton.