nicotine, will also stand in the some relation. Another and not uncommon cause is distant local hyperemia, exemplified especially in children who suffer from convulsive disease, as an affection secondary to disturbance of the digestive organs and the irritation of worms; exemplified also in the dentition of infancy; but in this latter case, as perhaps also in a minor degree in the former, the element of peripheral irritation must be somewhat taken into account. Irritation of the peripheral extremity of a nerve will produce epilepsy. A remarkable case was quoted by Dr. Brown-Séquard (reported by the late Mr. Standist of Taunton); and I have seen more than one case of epilepsy traceable to carious teeth. The constant irritation of the extremity of a nerve exhausts the potential energy of the cells from which the nerve takes its rise, and produces a condition very similar to shock, whether physical or psychical. All forms of shock appear undoubtedly to determine the occurrence of epilepsy in some individuals; yet, with regard to the psychical variety, I would speak very guardedly. One case under my observation for some time was attributed to fright! A *post mortem* examination exhibited a surface-tumour. Another patient, the widow of an officer who was murdered before her eyes in the Indian mutiny, stated that she had been epileptic ever since the fright she received on that heart-rending occasion. She had, however, suffered from that time up to the time I saw her more or less from menorrhagia. The epilepsy was always increased when the flux was augmented, and lessened when it abated. After a short treatment, directed towards the control of the menstrual discharge, the epilepsy ceased to recur, and she has remained free from the attack ever since.

Dr. Brown-Séquard, in the commencement of 1869, stated to the French Academy that, in continuation of his experiments in inducing epilepsy by section of the spinal cord, he had concluded that the greater part of the cord takes an active part in the production of convulsion, because he had seen attacks occur in the muscles innervated by a segment of the cord comprised between two sections. The fact, as stated by Dr. Brown-Séquard, has, however, very little real bearing on the subject of epilepsy, except to confirm the truth of the hypothesis that the convulsive movements of epilepsy are the result of loss of control.

Dr. Brown-Séquard further stated that the brain seemed to take no part in the convulsion, because convulsive seizures continued to be produced in epileptic guinea-pigs, in which life was maintained by artificial respiration after the brain had been removed. This fact at least tends to confirm the idea I proposed at the commencement of this paper; viz., that convulsive movement in epilepsy is the result of a loss of cerebral control, or loss of balance of control between the cerebral and other systems. An animal with a bloodless brain—the effect either of direct depletion or of irritation from any cause—is in very much the same condition as an animal without a brain at all; and, therefore, there is not that discordance between clinical observation and the results of the experiments of Dr. Brown-Séquard which MM. Colin, Ricord, and Hardy, attempted to show, when Dr. Brown-Séquard's paper was discussed. Dr. Brown-Séquard stated that he had never been able to produce epilepsy by unilateral division of the cord in any animal other than the guinea-pig, except the cat. It is a fact worthy of record that I have induced epilepsy in the rabbit by unilateral section; I have also seen one case of epilepsy in a wild rabbit.

[To be concluded.]

NOTE OF A CASE IN WHICH SEVERE CONSTITUTIONAL EFFECTS FOLLOWED THE APPLICATION OF CANTHARIDINE BLISTER.

By JOHN A. CAMPBELL, M.D.,

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ON March 15th, 1870, P. D., one of the Asylum officials, a middle-aged man, 16 stone in weight and 5 feet 10 inches in height, had been for some time troubled by persistent chronic bronchitis. I applied liquor vesicatorius to the upper part of his chest, 5 inches by 5 inches on each side of his sternum, at 3 P.M.; and told him to put on a linseed-meal poultice over the blistered part at 6 P.M. At 9 P.M., he was seen by Dr. Clouston and myself. We found him sitting on the night-stool, perspiring profusely, looking most haggard and exhausted, depressed in mind, and evidently in great pain. He said that shortly after the linseed-meal poultice had been put on, the blistered part ceased smarting; but that at 7 P.M. he had been taken very ill, that he had to get up to stool, and had been sitting there, straining himself, ever since; that he had not allowed a doctor to be sent for, because he thought a man ought to be able to perform the calls of nature without medical aid. He had passed a little feces and bloody slime, and a little urine.

He complained of great pain at the root of his penis and in his rectum, and said that the few drops of urine he passed felt as if they burned him. He was looking very ill; his pulse was 96 and very weak, and he seemed very faint. We had the blistered surface sponged with warm water to prevent the absorption of more cantharidine, and gave him a glass of gin in cold water and eight grains of compound ipecacuanha powder. He vomited both immediately. He then had a draught containing fifteen minims of tincture of opium, twenty minims of spirit of chloroform, and four ounces of solution of acetate of ammonia. This he retained, but it seemed to do him no good. We then gave him an enema of hot oil with a drachm of solution of hydrochlorate of morphia and twenty minims of the morphia solution with some gin by mouth. The enema came away at once; but another was given, which had such a good effect on the tenesmus, that the patient was able to leave the night-stool and lie down in bed. The strangury remained as severe as ever. We wished to inject some warm oil into his bladder, but he preferred to bear the pain a little longer. At 12 P.M. he was able to stay in bed, though every now and then he felt the tenesmus. We gave him chlorodyne, which made him drowsy and relieved the pain. At 2 A.M. the tenesmus was quite gone, but the strangury continued. We gave him another half a drachm of chlorodyne. At 5 A.M. he fell asleep. When he awoke, he had a great feeling of soreness about the root of the penis and rectum. He was ordered to drink large quantities of barley-water. His urine was examined, but, with the exception of containing a very large quantity of urates, it was normal. The soreness about the rectum and penis continued for two days, and the first time he went to stool he experienced severe pain in the rectum, which remained for several hours. I advised him to take a warm water enema on the next occasion, which he attempted, but found the rectum too tender; so he had to take castor-oil every second day for some time to enable him to have a comfortable passage.

April 28th.—He was now quite recovered, the blister having had a very good effect on his bronchitis, though otherwise it acted unpleasantly.

REMARKS.—1. This was clearly a case of idiosyncrasy, rendering the patient most susceptible to the effects of cantharides; for, though cases occasionally occur where slight tenesmus and strangury follow the application of a cantharides blister, I have never heard of such results following the application of the liquid preparations. The preparation used was Burt's liquor vesicatorius. Fluid out of the same bottle has been used repeatedly by me before and since its application in this case, without producing any but the desired effect. 2. The mental depression, noticed by writers on the toxic effects of cantharides taken by the mouth, was strongly marked. The patient, an unusually sensible, courageous, and determined man, could not control his expressions of despondency and pain, and kept moaning most of the time, and saying he felt as if he could lie down on the floor and die. The patient had no feeling of priapism. 3. The warm enemata and the chlorodyne seemed to give the most relief.

CASE OF VARICELLA IN AN ADULT.

By W. T. GREENE, M.B., etc.

ON January 30th, 1868, an adult, aged 32, was exposed to the infection of varicella for several hours. On February 7th, he began to feel unwell, and thought he was getting a cold, to attacks of which he was subject. On February 8th, he was much worse, with severe headache; pulse 70. The next day the headache and prostration had much increased; there was also considerable nausea, and slight rigors. Two or three small vesicles appeared on the chest, towards evening. On the 10th, a number of vesicles appeared on the chest, back, shoulders, arms, and scalp; they were of different sizes, but clear and prominent, with a small red areola round each; the headache was better, and the nausea gone. On the 11th, more vesicles appeared on the thighs, buttocks, and face, some on the eyelids and on the fauces. On the 12th, he felt quite well, but a few more vesicles came out on the legs, one on the glans penis, and two or three on the corona glandis; there was considerable pruritus from this date for several days. On the 13th, one or two papule made their appearance on the hands, but no more vesicles; the others also assumed a pustular appearance, and a few of them dried up. In a fortnight from the commencement of the attack, almost all trace of the eruption had disappeared. On puncturing one or two of the larger vesicles with a needle, in their first stage, the contents, and colourless fluid, were entirely evacuated.

Exactly one fortnight from the commencement of the attack, or one week after it had reached its height, an infant in the house sickened, the eruption appeared on the third day, and ran its usual course.]