

nine, I have never seen a single dose of it given alone to the amount of nine grains and a half suffice to arrest an exacerbation of remittent fever, much less prevent its recurrence; while nothing is more common than to see the same quantity of the alkaloid in Warburg's tincture bring about both results."

A few cases briefly cited will suffice to indicate the results I have obtained from its use, and the special lines of disease in which it seems to me to be a valuable addition to our therapeutic armamentarium. (1.) As regards malarial remittents, I cannot say much, for they are rare in Canada. One case I did treat with Warburg, with the most satisfactory results, but the patient said he would rather die than be cured by that medicine. (2.) Malarial intermittent fevers.

CASE I.—Mrs. R. L.—, an emaciated sallow woman, aged 26. Had been suffering from intermittent fever for over a year, never getting respite for more than a few days at a time: quinine had been used freely but with little effect, and certainly no lasting effect, as she had during this time been under the care of a regular physician. Other anti-malarials had doubtless been tried, but as to that I cannot speak positively. She was suffering from a severe paroxysm when I saw her. I ordered a sharp mercurial purge, and followed that by the administration of an ounce of Warburg; she sweat freely, but not excessively, and never had another paroxysm; her health under simple tonic treatment rapidly improved, and she has only once since had even threatenings of the chills; then, she applied for another bottle of the tincture, which effectually prevented the threatened recurrence.

CASE II.—The second case is one kindly furnished to me by the President of our Association. Early in August of 1883, I received a letter from Dr. Worthington, saying, that a case of severe intermittent fever had come to him from Cairo, Ill.; that it had resisted ordinary remedies, and asking, if practice in a malarious district had furnished me with any special means for treating these obstinate cases. I at once sent a bottle of Warburg, with directions. The Doctor's report is as follows: "I at first gave quinine in moderate doses, without effect; then in antipyretic doses, as high as twenty grains without the least effect, apparently. I procured some Warburg's tincture from you, and on the 18th I gave

him the tincture in accordance with your instructions, and on the 20th he was free from the paroxysms. The form of intermittent was quotidian. The tincture acted like a charm." In no case have I never used it in intermittent without temporary benefit, and in only two in which lasting results were not obtained. One of these was associated with a chronically enlarged liver; in this case Warburg only produced temporary benefit, and mountain sage was honored with success. The other was a case of phthisis, in which daily chills and fever were utterly uncontrollable by every means within my reach except Warburg, and that irritated the bowels so as to render it useless. At last I found that both chills and fever were absolutely and immediately controlled by $\frac{1}{3}$ grain of morphia, hypodermically, during the cold stage, later than that it was useless to control fever.

In the treatment of intermittent neuralgia, I might mention many cases, but one will do as a specimen of the power of the tincture. Mrs. B. applied for treatment in April last; she said she had for a year past been suffering from an intense headache every day, lasting from sun-down to after midnight. I used quinine in half drachm doses without any effect, but to produce ringing in the ears and nausea. Arsenic was freely used without any benefit. I attempted to reduce the pain by gelsemium without effect, croton chloral used for the same purpose was of little use. I then tried Warburg, the first bottle rendered her easy, and though slight pain still recurred, she pronounced herself well; another bottle completely removed the difficulty, and it has never returned.

In cases of septicæmia I have found it the most prompt and reliable remedy I have ever used, almost immediately reducing the temperature, removing headache and producing free sweating. I have seen the most satisfactory results when quinine seemed of little use in double the doses given of Warburg.

In spasmodic asthma, the results of the administration of full doses of Warburg gives generally prompt relief.

My object in bringing this subject before the Association, is not to furnish anything new or strange for thought or discussion, but simply to bring into more prominent view a preparation that is in Ontario little known, hence slightly tested, and consequently very indifferently appreciated. I