

very intemperate. The injections within two days had improved the condition of his stomach and lessened the desire for alcohol. He continued his beer during the first week—a glass or two at bedtime. A couple of days before the treatment was completed he left the city for two days, and at a gathering of friends indulged very freely.

CASE XXIII.—Traveller, aged 40; had a sunstroke in 1880; no hereditary influences. Although he took a glass of ale occasionally it was not until after the sunstroke that he began to indulge freely; has now been drinking steadily for four weeks; he was sleepless and on the verge of delirium tremens; secured sleep readily with paraldehyde and sod. brom; began with 7 dcgms. of the stronger solution, increasing it up to 10; 30 injections; drank none after the first day, made a rapid recovery, resuming work within a week.

CASE XXIV.—November 26th, 1892. Carpenter, aged 34; began to drink seven years ago. Takes two or three days continuous drinking spells at irregular intervals; last one continued a week; not inherited; sleepless and no appetite; three doses paraldehyde gave sleep; gave 30 injections, beginning with 7 dcgms. strong solution, 10 after third or fourth day; took no liquor after first injections; went to work on the second day and made a rapid recovery to his normal condition, and remained well to date; took the tonic for one month.

CASE XXV.—December 8th, 1892. Broker, aged 30; has used alcohol for about eight years; excessively for six years; no heredity; much gastric derangement; gave a purgative of powdered rhubarb and calomel and sodium bromide peroxide hydrogen trs. calumba and capsicum internally; required paraldehyde to get sleep; blood examined; there were 4,400,000 corpuscles to the cubic millimetre, about 7-10ths of these were very irregular in shape, shrunken with jagged edges, some of the projections acute, others truncated; no craving for alcohol after 3rd day of treatment; 30 injection all 10 dcgms after 3rd day. Although mingling with his old associates daily in places where liquor was sold, felt no desire whatever for it; appetite was good, and he appeared fully restored to his usual health.

From the results obtained in these twenty-five cases we can learn that simultaneously with the use of this remedy the crave for alcohol in inebriates diminishes and in a few days is completely gone, and through the withdrawal of the poisonous beverages and the tonic effects of the strychnine there is a more or less rapid restoration to sound physical health and of the mental powers; but as most of those treated have relapsed within from one to eleven months, the inhibiting power of the remedy is not per-

manent, and while it temporarily relieves the distressing and overwhelming crave for more stimulant and promotes a return to normal health, and in which condition these patients may continue to remain, yet they still lack the necessary will power to enable them to avoid the dangers which they know will precipitate a return to their previous enslaved and degraded condition. So that while it is fully within the power of medical science to restore these patients to temporary health, strychnine does not—as doubtless no drug treatment ever will—prevent the possibility of further relapses, although we can always depend on it to arrest what would be a prolonged debauch if its aid is early resorted to.

That weakened will power is a result of the prolonged use of alcohol is generally conceded, as is the fact that the tendency to alcoholism is in a large percentage of cases inherited, and that it is often as dipsomania one of the manifestations of insanity. A definite series of pathological conditions follow the continual indulgence in alcohol, differing only in degree in the milder methyl to the powerful effect of amyl alcohol, the nervous system showing the earliest and most marked disturbance, although every organ and tissue in the body eventually suffers. These and many other facts have led neurologists to place alcoholism as a distinct disease among the neuroses.

This position implies a complete revolution in the methods of treating these cases, and has brought to the aid of philanthropists and moralists the assistance of the medical profession, upon whom now devolves the duty of further elucidating the true pathology of the disease, and indicating the best means of restoring this numerous class of patients to a normal condition.

That the urgent demand for relief from the evils of intemperance is being recognized by the profession is evidenced by the increased interest taken in the work of the American Association for the Study and Cure of Inebriety, and in the section for the study of inebriety of the British Medical Association, and an ever increasing number of scientific investigators throughout the world.

Before rational and effective measures can be adopted for the proper management of inebriety we must have correct opinions in regard to the physiological actions of alcohol and the pathology of the disease, otherwise we must trust to the empirical results of experience.

*To be continued.*