

CASE I.—G. R., æt. 8, a girl of highly nervous organization, was placed under my treatment for enuresis, which had resisted all ordinary tonic treatments: iron, nux vomica, cold baths, had all been tried without any benefit. I resolved to give belladonna a trial, and gave one-sixth of a grain of the solid extract three times a day in some bitter tincture. On the evening of the first day she had taken the drug, I was sent for in haste to see her, "as she was talking and acting so queer." I found her delirious, pupils widely dilated, extremities cold; and marked double vision. She had taken three doses of the medicine. I gave her an emetic of ipecac, which acted promptly, bringing up a quantity of popped corn which she had eaten in the morning. I then gave hydrate of chloral gr. iij and pot. bromide gr. v every hour. After taking three doses, there was no improvement in the symptoms. I then omitted the chloral and continued the bromide through the night. I called at 7 a.m., found her still awake, pupils dilated, great prostration. I left two powders containing half a grain of opium each, to be given one hour apart.

At 3 p.m. I returned, and found her sleeping quietly. I was informed that, after taking the second powder, she fell into a quiet sleep. The pupils were now contracted and extremities warm. She slept, in all, fourteen hours, and awoke quite rational, without any ill results from the various hypnotics she had taken. I need hardly say I discontinued the belladonna, and cured the enuresis with quinine and blister to spine. Here, the effect of the opium in modifying the action of the belladonna, after the failure of the chloral and bromide, was most marked.

CASE 2.—Mrs. W., æt. 34, was under my treatment. She was in the last stage of tubercular phthisis. I had great difficulty in controlling the night sweats. The mineral acids, zinc, oxide and sulphate, were tried with but little benefit. I gave her a two drachm vial containing 1 gr. sulphate of atropia, with directions to take one drop each evening, and repeat it in two hours if no ill effects were observed. This she continued for about a week, with no improvement. One evening she poured out about half a small teaspoonful of the solution, about 30 drops, as near as two could estimate and took it at one dose, determined, as she afterwards said, to see

if there was any good in the stuff. In a short time she felt great oppression and numbness, was barely able to alarm her friends, and fell insensible on the floor. I was sent for, and found her on the bed, breathing with difficulty, unable to articulate, pulse barely perceptible, pupils dilated. Her mother informed me that she said she would take a good dose of those drops that evening. I found the vial half empty.

I immediately gave  $\frac{1}{2}$  gr. sulphate of morphia hypodermically. In a short time the pupils began to contract, the pulse became fuller, and in about half an hour she was able to speak. I then gave aromatic spirits of ammonia and brandy, and she was able to give a connected account of her symptoms. She made a good recovery from the effects of the atropia, although she complained for several days of a feeling of numbness, and the pupils again dilated for several hours. Here it is evident that, but for the morphia, she would have died. Its effect, in promptly alleviating her very alarming symptoms, was all that could be desired.

CASE 3.—The wife of a medical friend sent for me, as her husband had taken some 5 grs. of opium, and she found he had taken an overdose. He was asleep, evidently deeply narcotized. With some difficulty I aroused him, and gave 3 grs. of ex. belladonna. In about 20 minutes the pupils began to dilate, and he was easily aroused. The narcotic effects of the opium were antagonized, and he felt no desire for sleep for several hours. All the peculiar physiological effects of the belladonna were fully developed.

CASE 4.—I was sent for in haste to see a child æt. 16 months, who had been given about half a teaspoonful of a liniment of equal parts tr. opium and arnica in mistake for syrup of rhubarb.

It was fully under the influence of opium, and could with difficulty be aroused. The parents had given it strong coffee, and, as over an hour had elapsed, I deemed it useless to give an emetic. I ordered tr. belladonnæ gtt. iij. every hour, and called in four hours to see it. It was awake, pupils dilated, and had evidently no desire to sleep. I discontinued the belladonna, and the child recovered without any ill effects.

CASE 5.—I was called one Sunday morning to see Miss M., æt. 26, who had taken intention-