

some weeks, with sleeplessness, notwithstanding sedatives. On August 24th last, at 4 p.m., injected $\frac{1}{10}$ gr. of hyoscin and put him to bed; no effect; at 10 p.m. $\frac{1}{10}$ gr. injected, after which he slept five hours. 25th. $\frac{1}{10}$ gr. injected; three hours' sleep. 27th. No hyoscin; passed a sleepless night. The drug was given on several other occasions with good result, the largest dose being $\frac{1}{5}$ gr., followed by five hours' sleep.

CASE II.—Female, C. F., aged 47; chronic mania, with periodic outbreaks of violence. During one of these, after having been for three nights turbulent and excited, I visited her in single room at 10 p.m. Found her standing on the floor, vociferating loudly, threatening everyone who came near her. While held by attendants, $\frac{1}{10}$ gr. of hyoscin was injected. In ten minutes she was perfectly quiet and slept well that night; kept quiet for four nights; on the fifth again very noisy; $\frac{1}{10}$ gr. injected with similar results.

CASE III.—Female, M. W., aged 36; paroxysms of violence, during which she uses most abusive and foul language for a whole night together. In one such attack, when at its acme, I injected $\frac{1}{10}$ gr. of hyoscin; in fifteen minutes she was tranquil, and remained so for several nights, sleeping some hours each night.

CASE IV.—Male, J. H., aged 45; acute mania, sleeplessness, hallucinations, violence refusal to eat; on opening his door on morning round, he stepped out naked in the corridor, with expression of dismay and limbs trembling; would not lie down; had taken no breakfast, and had been shouting and vociferating all morning. Injected $\frac{1}{10}$ gr. hyoscin. He was asleep in fifteen minutes, and on waking drank a quart of milk and egg and did not refuse food after.

CASE V.—Female, A. K., aged 49. Acute case of recurrent insanity, resembling most acute delirious mania in the first part of its course. Had been in asylum six years previously, when she got a quantity of chloral, laudanum and morphine before sleep was produced. Present attack of one week's duration; violent, with suicidal impulses; refusal of food. At 12 o'clock on night of admission I found

her lying across her bed with half her body on the floor, eyes staring and muddy, looking like a woman blind-drunk. Broad awake, but could not be got to utter a word. Pulse 112. Took five attendants to undress her, as she is a large, heavy woman and struggled violently. 10th. Condition unchanged, ate nothing. At 4 p. m. gave her, with great difficulty and in spite of most furious resistance, about three-quarters of a pint of milk and egg with oesophageal tube. 11th. Has not slept since admission. Looking very wild and moaning, but no articulate word. One pint and a half of fluid got down with the tube under the same violent resistance as before. The attendants were nearly exhausted at the close of the administration. At 3 p.m. I injected $\frac{1}{200}$ gr. of hyoscin. She soon fell asleep, and on waking drank voluntarily a pint of fluid, and spoke to attendant. At 10 p. m. I could hardly believe she was the same woman. She spoke quite rationally, remembered being here before, and said she knew her head (mind) was very bad. She then began moaning; $\frac{1}{10}$ gr. injected, and she slept about five hours; then began moaning again, with occasional shout; passed her urine about the floor up to this. 12th. took food herself: Pulse 100. In evening $\frac{1}{10}$ gr. hyoscin; slept till 5 a. m. Allowed up. On 15th pulse had come down to 68, and she went out walking. Recovery interrupted and rapid. The effect of the drug in this case was almost startling.

CASE VI.—As this case exhibits, in what may be called a typical manner, the tranquillising effects of hyoscin, I give it with a little more detail. Female, A. P., aged 58. Chronic mania, with paroxysms of excitement and violence, during which she kicks, bites, and strikes, if she gets the opportunity. On December 22nd she was in seclusion for this reason, where she kept talking incessantly at the top of her voice, pouring forth volleys of abuse, etc. At 10:30 a. m. $\frac{1}{10}$ gr. hyoscin injected. 10:32 a. m. Voice subdued; talking in a low conversational tone, raising voice occasionally, but not to full extent. 10:35 a. m. Silence, broken by low fragmentary utterances. 10:38 a. m. Absolute silence for some minutes, after which she talked a little in a low voice. At 10:45 a.m.