A Comparative Study of Various Methods of the Administration of Luminal in Epilepsy. (Journ. of Nerv. and Ment. Dis., May, 1926.) Patterson, H. A., Damon, Le G. A., and Levi, P.

The authors used oral, subcutaneous, intravenous and intrathecal methods of administration. Orally they usually gave 1½ gr. each evening. Hypodermically they gave from 5 to 15 gr. of sodium luminal in sterile water. Intravenously 2 gr. of sodium luminal in sterile physiological saline solution was given, gradually increasing at two-day intervals by 1 gr. to a maximum of 5 gr. In using the intrathecal method, 1–3 c.c. cerebro-spinal fluid was withdrawn, and then sodium luminal solution in sterile physiological saline was given, gradually increasing the dose from 1 gr. to 5–6 gr. Whilst using this method, the patients were kept in bed under observation. Cases in which the therapeutic dose was exceeded showed in the fluid typical sterile meningitis with a very high cell-count, sometimes up to 6000 cells per c.mm.

No tolerance develops by any of these methods. The time required for the appearance of therapeutic effects is as follows: Orally, 1-2 hours; subcutaneously, 15-30 min.; intravenously, almost immediately; and intrathecally, ½ hour or more.

Luminal by any of these methods has more effect on the severe seizures than on the mild ones.

The employment of the intravenous method is indicated in *status epilepticus*, the subcutaneous method in serial seizures. Intrathecal injection may subsequently render unresponsive cases more amenable to other types of treatment.

G. W. T. H. Fleming.

Therapeutic Results with Tryparsamide in the Treatment of Neuro-Syphilis. (Fourn. of Nerv. and Ment. Dis., August, 1926.) Neymann, C. A., and Singleton, D. E.

The authors treated 50 cases of neuro-syphilis, including 18 of general paralysis with tryparsamide. The average number of doses given to each patient was 28, the average observation period about 1 year. Of the 18 cases of general paralysis, 5 made a social recovery and were at work, 4 were strikingly improved, but were still in hospital, 9 were unimproved. The 5 recovered cases showed negative serology, as did also one of the improved cases. Of 12 cases of tabo-paresis, 4 made complete social recoveries, 2 were greatly improved, and 6 were unimproved. Three of the cases that made social recoveries finally had a negative spinal fluid. Of 4 cases of tabes, 2 improved, I remained stationary, and I progressed. Of 10 cases of endarteritic type and 3 of meningitic type of cerebral syphilis, 3 recovered and 4 improved. The authors found 10% of their cases showed a slight transitory toxic amblyopia. They consider the toxicity of the drug as practically negligible, however. Any evil results are far outweighed by the therapeutic value of the drug. G. W. T. H. FLEMING.