dilatation of the pial artery, and, as a rule, an increase in cerebro-spinal fluid pressure.

Picrotoxin convulsions were preceded by slight constriction of the pial artery and a decrease in cerebro-spinal fluid pressure. In these last two cases the changes in blood-pressure were inconsistent.

G. W. T. H. Fleming.

Cerebral Blood-flow Preceding and Accompanying Experimental Convulsions. (Arch. of Neur. and Psychiat., vol. xxx, p. 1003, Nov., 1933.) Gibbs, F. A.

Oil of absinth, camphorated oil, picrotoxin, caffeine or an induction shock do not produce convulsions through the general diminution of the cerebral blood-flow caused by them.

G. W. T. H. Fleming.

The Permeability of the Meninges due to Absorption. (Ann. Méd., vol. xxxi, p. 115, 1933.) Riser and Planques.

Insulin, adrenaline and acetyl choline are each absorbed from the subarachnoid space more slowly than from intramuscular injection. They do not produce an an effect on the nerves. The ease of absorption depends on diffusibility.

A. E. Meyer (Chem. Abstr.).

Alcohol Injected Intravenously: Its Penetration into the Cerebro-spinal Fluid in Man. (Arch. of Neur. and Psychiat., vol. xxx, p. 1092, Nov., 1933.) Mehrtens, H. G., and Newman, H. W.

The intravenous injection of alcohol in man is well suited for studying the psychological effects without the patient being aware of what he has received. After a single dose, the alcohol in the lumbar spinal fluid rises much more slowly than that in the blood, attains its maximum later, and declines more slowly. The alcohol in the cisternal fluid rises promptly and closely approximates that in the blood. If the alcohol in the blood is kept at a constant level for from four to five hours, the alcoholic content of the lumbar and cisternal fluids at the end of this time is equal to, or in excess of, that in the blood-plasma. The higher alcohol content of the spinal fluid as compared with that of the blood plasma may be due to a relative impermeability of the absorbing system to alcohol.

G. W. T. H. FLEMING.

Inorganic Constituents of the Cerebro-spinal Fluid. IV. The Potassium in Serum, Serum Filtrate and Cerebro-spinal Fluid. (Biochem. Journ., vol. xxvii, p. 1107, Sept., 1933.) Watchorn, E., and McCance, R. A.

The average cerebro-spinal fluid potassium was 12.05 mgrm. per 100 c.c.; this is always lower than that in the serum, and so lower than that found in serum ultra-filtrates or effusions. The potassium of serum is ultra-filterable, but that of the cerebro-spinal fluid is only 65-70% of that of the serum. These results do not support the view that the fluid is an ultra-filtrate of the blood-plasma. The authors think that the fluid should be compared with the intestinal secretions, which are isotonic with the blood, but contain very different ionic concentrations.

G. W. T. H. Fleming.

The Influence of the Brain on the Thymus [Influenza del Cervello sul Timo]. (Riv. Sper. di Fren., vol. lvi, p. 322, June, 1932.) Ciabatti, O.

The author experimented on fowls and dogs. Two months after partial decerebration in fowls he found a marked alteration in the thymus. There was a reduction in number of the cellular elements, and a degeneration of the epithelial cells of the corpuscles of Hassal and a destruction of the connective tissue. The destructive changes reach a maximum after 35 days. In fowls the glandular elements destroyed are not replaced by either connective or fatty tissue, as takes place in the physiological involution of the thymus. In newborn puppies there