the myelin sheaths of the peripheral nerves, and vacuolation and liquefaction necrosis of the ganglion cells of the mesencephalon, metencephalon and anterior horns of the spinal cord. Hæmorrhages with changes in the ganglion and gliacells of the mesencephalon are also met with in the animals with convulsions.

The pathological changes in the nervous system in animals suffering from inanition are essentially the same as those in animals deprived of vitamin B_1 or of both vitamins B_1 and B_2 . If anything, the changes in the peripheral nerves in animals subjected to inanition are more marked. In such animals the pathological changes are essentially the same whether the animals are totally starved or are given abundant vitamin while starving. The clinical manifestations in animals subjected to inanition, however, are not identical with those in animals suffering from vitamin B deficiency, possibly because of the rapid death of the starved animals.

G. W. T. H. Fleming.

Blood Cholesterol and the Manic-Depressive Psychosis. (Journ. Lab. and Clin. Med., vol. xxii, p. 240, Dec., 1936.) Schube, P. G.

The author investigated 71 cases of manic-depressive psychosis and 53 normals. He took the normal range to be between 110–195 mgrm., with a mean value of 148–1·7 and a median value of 150 mgrm. The range among the manic-depressives was from 50–428 mgrm. with a median value of 104·6. Only 23·8% had a blood-cholesterol value between normal levels.

In the separate groups, 84.8% of the 33 manic cases showed a cholesterol value below normal limits; the remaining $15\cdot2\%$ were within normal limits. In the depressive group; practically one-third were below normal, one-third normal and one-third above normal. The author thinks it is possible that some disturbance of the balance between the endocrine glands, the autonomic nervous system and the emotions is the factor at work.

G. W. T. H. Fleming.

Cerebral Lesions in Hypoglycæmia. (Arch. of Path., vol. xxiii, p. 190, Feb., 1937.) Baker, A. B., and Lufkin, N. H.

The writers studied the brains of three patients who died in a hypoglycæmic state. They found numerous new and old hæmorrhages scattered irregularly, which were most numerous in the patients who had had the most severe convulsions. The ganglion cell changes found were due entirely to post-mortem changes. They carried out experiments on six rabbits, but could find no evidence of cell alterations of pathological significance.

G. W. T. H. Fleming.

Evidence of Selection in the Building up of Brain Lecithins and Cephalins. (Journ. Biol. Chem., vol. cxviii, p. 131, Mar., 1937.) McConnell, K. P., and Sinclair, R. G.

By feeding young rats with elaidic acid both before and after birth, the elaidic acid content of the fatty acids in the lecithins and cephalins of the brain was found to be only about one-fourth of that of the liver and muscles. Thus there would appear to be a greater degree of selection in the building up of brain phospholipids than those of liver and muscle.

G. W. T. H. Fleming.

The Carbohydrate Metabolism of Brain. I: The Determination of Glycogen in Nerve Tissue. (Journ. Biol. Chem., vol. cxvi, p. 1, Nov., 1936.) Kerr, S. E.

The writer describes his modification of the Pflüger procedure for the estimation of glycogen. The method depends on (a) avoidance of post-mortem change during preparation, (b) rapid solution of the tissue by digestion with hot alcoholic potassium hydroxide, (c) separation of cerebrosides by means of hot methyl alcohol—chloroform mixture, and (d) correction for non-fermentable reducing substances liberated during acid hydrolysis. By this method the recovery of glycogen added to brain averaged 95.6%. Values of from 70–130 mgrm. per 100 grm. were found in mammalian brains frozen in situ with liquid air.