

a decided feeling of numbness. He finds that the extremities are extremely liable to variations in appearance and sensation with alterations in posture.

The patient is a healthy looking man with a ruddy complexion, but is thin, being only 7 st. $13\frac{3}{4}$ lbs., which, he says, is considerably below his normal. There is some thickening of the tissues in both ears, and some appearances as though they had suffered from frost-bite. There are no venous stigmata upon the face or anywhere else. The hands usually present a deep livid aspect with pink blotches—the appearances being almost symmetrical in both hands. There is no alteration in the superficial veins, which are neither swollen nor contracted in cold weather. The hands become sometimes pallid and dead; at other times intensely congested with very considerable tingling and numbness. His arteries are perfectly healthy; the pulse pressure is usually moderate, being about 120 mm. Hg. during systole; and the pulsation is regular in rhythm and moderate in rate. On inspection of the praecordia, the apex-beat is not visible, but it can be felt in the 5th intercostal space, $3\frac{1}{2}$ inches from mid-sternum. The borders of the heart are respectively $1\frac{1}{2}$ in. to the right, and 4 in. to the left of the mid-sternal line. The heart sounds are perfectly healthy, but there is a disproportion between the intensity at the base and apex, as the aortic sound second is somewhat accentuated, and the mitral first sound rather faint.

The renal secretion is perfectly normal, and, in particular, there has never been any haemoglobinuria. The right kidney, however, is freely movable; the whole organ can be grasped below the costal margin. There is slight dilatation of the stomach which reaches from the 5th rib to $1\frac{1}{2}$ in. above the umbilicus. The blood obtained from the ear gives 4,500,000 erythrocytes, 6,000 leucocytes and 90 per cent. of haemoglobin. The glands are perfectly healthy.

The numbness in the hands has already been described. There is no objective disturbance of sensibility, and the special senses are intact. The organic and cutaneous reflexes are all perfectly healthy, and the muscle and tendon responses show no departure from normal.