Periscope.

With the Assistance of the Following Collaborators:

CHAS. LEWIS ALLEN, M.D., Wash., D.C. R. K. MACALESTER, M.D., N.Y.
 J. S. CHRISTISON, M.D., Chicago, Ill. J. K. MITCHELL, M.D., Phila., Pa.
 A. FREEMAN, M.D., New York. H. PATRICK, M.D., Chicago, Ill.
 S. E. JELLIFFE, M.D., New York. JOSEPH SAILER, M.D., Phila., Pa.
 WM. C. KRAUSS, M.D., Buffalo, N.Y. HENRY L. SHIVELY, M.D., N.Y.
 W. M. LESZYNSKY, M.D., New York A. STERNE, M.D., Indianapolis.

ANATOMY.

106. UEBER DEN KERN DES NERVUS ACCESSORIUS (Concerning the Nucleus of the Accessory Nerve). Emil Bunzl-Federn (Monatsschrift für Psychiatrie und Neurologie, 2, 1897, p. 427).

In a number of rabbits the external branch of the accessorius was cut in the neck near its exit from the jugular foramen; in others the roots of the accessorius were cut within the spinal canal. The animals were killed fourteen days later, examination of the larynx having first been made. The movements of the vocal cords were normal. The method of Nissl was employed, as by this stain degenerative changes within a cell are seen soon after its axis cylinder is cut.

Bunzl-Federn finds that the cells of the accessorius nucleus begin in the lateral horn near its base just above the exit of the fifth cervical nerve, and soon assume a position on the lateral and posterior border of the horn; that higher they form two groups more anteriorly located, one of which is more towards the centre; and that still higher the median group disappears and degenerated cells are present in the anterior part of the anterior horn, which later take a more central position within the horn. Degenerated cells were only noticed on the side of the operation. The accessorius nucleus ends just below the lowest part of the hypoglossus nucleus, and extends, therefore, far into the oblongata. Most of the spinal portion and the lowest portion of the oblongatal roots of the accessorius pass into the external branch of this nerve, but a few pass into the vagus. The uppermost fibres of the accessorius nucleus of the oblongata enter the internal branch of the accessorius and thus form part of the vagus. The accessorius, however, has nothing to do with the motor innervation of the larynx, for the vocal cords were not affected after the accessorius roots had been cut, and only in one of many cases was degeneration of accessorius cells found after the recurrent laryngeal nerve had been cut.

SPILLER.

107. UEBER DIE KERNE DER MIT DEN AUGENBEWEGUNGEN IN BEZIEHUNG STEHENDEN NERVEN UND ÜBER DIE VERBINDUNG DERSELBEN UNTER EINANDER (On the Nuclei of the Motor Nerves of the Eyes and their Relations to one another). W. von Bechterew (Arch. f. Anat. u. Entwicklungsgeschichte, 10, 1897, Hefte 5 u. 6).