

Diagram to illustrate :—

I. The relative positions of the 3rd, 4th and 6th nerve nuclei, the nuclei involved in the first case. The two groups of third nerve nuclei are shown, the posterior are deeply shaded to indicate their degeneration, while the anterior are shown in outline. The 4th and 6th nuclei are also shaded.

II. The various pontine and bulbar nuclei. The 7th, 9th, 10th, 11th and 12th are deeply shaded, to represent the supposed condition present in the second case (chronic bulbar paralysis). The whole of the main nucleus of the 7th nerve is shaded, which is not strictly correct. The same holds true with the 9th and 10th nuclei, which, like the 7th, can only be partially degenerated.

III. The course of the crossed pyramidal tract in the spinal cord and its relations to the anterior cornual cells in the cervical and lumbar enlargements. These cells are shaded to represent their degeneration, the condition of things as they are supposed to be in case No. III.

The nuclei are represented as if seen through transparent material.