100. On the Diagnostic Value of the Curve of the Cerebrospinal Fluid Pressure While Injecting Urea Intravenously

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If we record the CSF-pressure of a subject while injecting him with urea intravenously by continuous drop method, we can obtain a CSF-pressure curve. In our last report, we showed that we were able to classify 4 types of curves. (as shown figures)

This time, we examined the correlation between the curves of 54 brain tumor patients and the nature or the site of the tumors, and obtained the following results.

1) There is no direct correlation between the type or decreasing rate of the curves and the nature or site of the brain tumor. As far as we can determine at the present time, however, when the CSF-pressure or cerebral edema increases the curve changes from type III to type IV.

2) When there is moderate elevation of CSF-pressure (less than 300 mm H₂O) significant changes in the types and decreasing rates of the curves can be observed, according to the presence or absence of a brain tumor.

We feel that this test can be of significant assistance in the early diagnosis of brain tumors.

101. The Clinical Study on the Effects of Mannitol for the Reduction of Intracranial Pressure

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However the osmotherapy to control the intracranial pressure and brain bulk in neurosurgical field have been doing by intravenous infusion of hypertonic