

Tumor capsule

Meningiomas, schwannomas, and pituitary neuroendocrine tumors are typically benign tumors of intracranial origin, but all of these tumors have a border with the surrounding tissue. The basic structure is a clear “boundary” between the tumor and its surroundings, with a thin membrane layer to create that separation. This layer of membrane is the boundary between the tumor and its surroundings and provides a space for the tumor to grow its cells, and can be viewed as the so-called “tumor capsule”. Based on the relationship between the membrane structure of the tumor capsule and the surrounding normal tissues, Watanabe and Murayama performed surgery to reduce surgical complications. They histologically evaluated three types of tumor capsules (meningioma, schwannoma, and pituitary neuroendocrine tumor) and compared the membrane structure of each tumor with that seen in clinical surgery ¹⁾.

¹⁾

Watanabe K, Murayama Y. [Surgical Strategy of Benign Skull Base Tumors Based on Membrane Structure]. No Shinkei Geka. 2022 May;50(3):681-694. Japanese. doi: 10.11477/mf.1436204604. PMID: 35670183.

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