

Removal of a malignant cystic brain tumor utilizing pyoktanin blue and fibrin glue: Technical note.

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Abstract:

Background: The leakage of cystic fluid during metastatic cystic brain tumor resection may cause tumor dissemination. When the cyst wall is thin, excision without removing the wall is often difficult.

Methods: We were able to perform an en bloc resection of a cystic malignant brain tumor after aspirating the cystic fluid, injecting pyoktanin blue into the cyst to stain the cyst walls, and solidifying the empty cyst cavity by filling it with fibrin glue. **Results:** Pyoktanin blue readily stained the thin cystic walls and enabled visualization of mural damage. Solidification of the tumor made it easier to grasp and facilitated the dissection of tumor margins. **Conclusions:** This method has the potential to become a useful technique for the resection of malignant cystic brain tumors.

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