

Obstructive hydrocephalus from pineal region tumor

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Treatment

Pineal region tumors resection usually should be performed before shunting, unless there is an acute [obstructive hydrocephalus](#). The posterior [third ventricle](#) should be opened after [tumor resection](#). Intraoperative [third ventriculostomy](#) and ventriculocisternal shunt are reliable ways to manage hydrocephalus secondary to [pineal region tumors](#) ¹⁾

Direct removal of pineal lesions with the opening of the posterior third ventricle could represent effective and reliable management of the associated obstructive hydrocephalus ²⁾.

Biportal endoscopic approach enables better visual control of both procedures. Furthermore, it allows the surgeon to safely pass the [ventriculoscope](#) via the [foramen of monro](#), even if it is narrow. Moreover, during endoscopic [tumor biopsy](#) and [third ventriculostomy](#), the intracranial pressure can be smoothly managed using the outlet tubes accessible. This treatment may be an alternative to traditional uniportal endoscopic operations in certain patients ³⁾

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