

Obstructive hydrocephalus at the level of the **aqueduct** with expansion of the **third ventricle** floor should be depressed no cyst wall should be visible or inferred (by CSF flow)

Cystic suprasellar lesions

Craniopharyngioma

Rathke's cleft cyst

Neurocysticercosis.

Hypothalamic hamartomas have been reported to coexist with lesions like Rathke's cleft cyst and arachnoid cysts in the suprasellar or temporo-sylvian regions. ¹⁾

Neurenteric cyst.

A 3-year-old girl presented with seizure. Neuroimaging showed a huge extra-axial cyst involving the **suprasellar cistern** and left **middle cranial fossa**. Under the impression of an arachnoid cyst, she underwent fenestration of the cyst with **basal cisterns** and **ventricle**. The pathologic diagnosis was **neurenteric cyst**. Four years after the surgery, MRI showed no recurrence but did show poorly developed myelination of the left temporal white matter. Three years after surgery, seizures recurred.

A close follow-up is needed for children with intracranial neurenteric cysts to surveil not only recurrence of lesion but also normal brain development ²⁾

¹⁾

Manjila S, Vogel TW, Chen Y, Rodgers MS, Cohen AR. Hypothalamic hamartoma simulating a suprasellar arachnoid cyst: resolution of precocious puberty following microsurgical lesion resection. J Neurosurg Pediatr. 2014 Jul;14(1):101-7. doi: 10.3171/2014.4.PEDS13371. Epub 2014 May 16. PubMed PMID: 24835046.

²⁾

Kim JH, Wang KC, Phi JH, Park SH, Cheon JE, Kim SK. Intracranial neurenteric cyst arising at the suprasellar cistern with extension to middle cranial fossa. Childs Nerv Syst. 2018 Dec;34(12):2491-2495. doi: 10.1007/s00381-018-3892-9. Epub 2018 Jul 6. PubMed PMID: 29980836.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=suprasellar_arachnoid_cyst_differential_diagnosis

Last update: **2024/06/07 02:55**

