

Mesencephalic cyst

Intraparenchymal mesencephalic [cyst](#) which occurs in lateral part of the [mesencephalon](#) is very unusual. In addition to describe this case, the authors also reviewed other [brainstem cysts](#) described in literature and briefly discuss concept of their origin.

They report a patient with cyst in right part of the mesencephalon of a 10-years old girl presenting symptoms of increased intracranial pressure and local compression. We discuss the clinical presentation, radiological investigation, pathological features and surgical treatment options for this lesion.

First surgical intervention was fenestration cysts, second ventricular-peritoneal shunt and third stereotactic navigation cysto-cysternostomy mesencephalic cyst with ponotocerebelar subarachnoidal space. Biochemical examination showed fluid in cyst and pathohistological examination showed fibrillar connective tissue without epithelial cell of the wall cysts.

Eight years later she is in good condition. Surgical resection or total extirpation cyst like that is not recommended ¹⁾.

A 66-year-old woman presented with a 3-year history of predominantly right-sided blepharospasm and a 1-year history of progressive predominantly left-sided hemiparkinsonism manifested by a left upper extremity resting tremor and left-sided bradykinesia. Magnetic resonance imaging of the brain revealed a large right mesencephalic cyst with mass effect. Positron emission tomography revealed bilateral striatal hypometabolism consistent with nigrostriatal dopaminergic dysfunction. The association of predominantly ipsilateral blepharospasm and predominantly contralateral hemiparkinsonism is very rare, and its association with a posterior fossa space-occupying lesion has been reported only once. This is the second report of such an association and the first description of adult-onset symptomatology ²⁾

LU AT, YUEN TG, BASSLER TJ. Mesencephalic cyst in fourth ventricle causing obstructive hydrocephalus. Bull Los Angel Neuro Soc. 1962 Jun;27:79-86. PMID: 14467022.

¹⁾

Brkic H, Kehrly P, Jakupovic S, Zornic M. Intraparenchymal mesencephalic cyst: an unusual location. Med Arh. 2006;60(6):386-8. PMID: 17297856.

²⁾

Singer C, Schatz NJ, Bowen B, Eidelberg D, Kazumata K, Sternau L, Shulman LM, Weiner WJ. Asymmetric predominantly ipsilateral blepharospasm and contralateral parkinsonism in an elderly patient with a right mesencephalic cyst. Mov Disord. 1998 Jan;13(1):135-9. doi: 10.1002/mds.870130125. PMID: 9452338.

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