

Fourth ventricle tumor differential diagnosis

see also [Posterior fossa tumor differential diagnosis](#)

[Fourth ventricle tumor](#) are more frequent in the pediatric population and the most common are [medulloblastoma](#), and [Fourth ventricle ependymoma](#); in adults, the most frequent are [Fourth ventricle hemangioblastoma](#), [Fourth ventricle subependymoma](#). Many of these lesions have a similar pattern in terms of density or intensity and enhancement, therefore, one should try to obtain a [differential diagnosis](#) as accurately as possible, using clinical and demographic data and imaging findings.

Medulloblastoma

see [Medulloblastoma diagnosis](#).

Fourth ventricle ependymoma

[Fourth ventricle ependymoma diagnosis](#).

Fourth ventricle subependymoma

[Fourth ventricle subependymoma](#).

Fourth ventricle hemangioblastoma

[Fourth ventricle hemangioblastoma](#)

Fourth ventricle choroid plexus papilloma

[Fourth ventricle choroid plexus papilloma](#).

Fourth ventricle meningioma

[Fourth ventricle meningioma](#).

Fourth ventricle cysticercosis

[Fourth ventricle cysticercosis](#)

Fourth ventricle pilocytic astrocytoma

Sandberg DI, Souweidane MM. Hemifacial spasm caused by a pilocytic astrocytoma of the fourth ventricle. *Pediatr Neurol*. 1999 Oct;21(4):754-6. doi: 10.1016/s0887-8994(99)00077-6. PMID: 10580892.

Fourth ventricle lymphoma

[Fourth ventricle lymphoma](#) should be listed in the [differential diagnosis](#) of [fourth ventricle](#) tumors with well-circumscribed margins and homogenous contrast enhancement ^{1) 2) 3)}.

1)

Liao CH, Lin SC, Hung SC, Hsu SP, Ho DM, Shih YH. Primary large B-cell lymphoma of the fourth ventricle. *J Clin Neurosci*. 2014 Jan;21(1):180-3. doi: 10.1016/j.jocn.2013.02.036. Epub 2013 Sep 5. PubMed PMID: 24012385.

2)

Hill CS, Khan AF, Bloom S, McCartney S, Choi D. A rare case of vomiting: fourth ventricular B-cell lymphoma. *J Neurooncol*. 2009 Jun;93(2):261-2. doi: 10.1007/s11060-008-9765-4. Epub 2008 Dec 18. PubMed PMID: 19093074.

3)

Haegelen C, Riffaud L, Bernard M, Morandi X. Primary isolated lymphoma of the fourth ventricle: case report. *J Neurooncol*. 2001 Jan;51(2):129-31. PubMed PMID: 11386409.

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