

# Craniocervical junction meningioma

Craniocervical Junction (CCJ) meningiomas account for 1.8–3.2% of all [meningiomas](#) <sup>1)</sup>.

Tumors around the [cervicomedullary junction](#) are rare and constitute 5% of [spinal tumors](#) and 1% of [cranial tumors](#). The [approach](#) to these lesions is difficult because of the close proximity of the [medulla](#) and cervical spinal cord, [lower cranial nerves](#), and [vertebral artery](#) (VA) as well as the complex articulation between [occipital condyle](#), [C1](#) and [C2](#). [Cervicomedullary junction meningiomas](#) are commonly classified based on their origin in relation to the [dentate ligament](#), but the relationship to the VA typically plays an important role in deciding the surgical approach. For lesions located dorsal to the dentate ligament and not involving the VA, a midline approach is typically sufficient. However, when the VA is involved a [far lateral approach](#) is preferred as it offers better access to the V4 segment. Budohoski et al. described a case of a 55-yr-old man who presented with [accessory nerve](#) palsy and mild [upper motor neuron](#) signs and was found to have a C1 [meningioma](#) encasing and narrowing the VA at the V3/V4 segment. [Informed consent](#) was obtained. The patient was treated with a right [far lateral approach](#) with limited [condylectomy](#) to gain access to the V4 segment. They described the steps used for safe [resection](#) of the tumor around the VA from distal to proximal. They demonstrated the relationship of the tumor to the VA and the need to completely skeletonize the VA to achieve a [gross total resection](#). They supplemented the [discussion](#) with a 3D surgical [video](#). <sup>2)</sup>

<sup>1)</sup>

Heros RC (1986) Lateral suboccipital approach for vertebral and vertebrobasilar artery lesions. J Neurosurg 64(4): 559-562.

<sup>2)</sup>

Budohoski KP, Barone DG, Mediratta S, Ross MI, Kirollos RW, Santarius T, Trivedi RA. Far Lateral Approaches: C1 Meningioma With Vertebral Artery Involvement: 3-Dimensional Operative Video. Oper Neurosurg (Hagerstown). 2022 Jan 1;22(1):e48. doi: 10.1227/ONS.0000000000000031. PMID: 34982918.

From:

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

Permanent link:

[https://neurosurgerywiki.com/wiki/doku.php?id=craniocervical\\_junction\\_meningioma](https://neurosurgerywiki.com/wiki/doku.php?id=craniocervical_junction_meningioma)

Last update: **2024/06/07 02:51**

