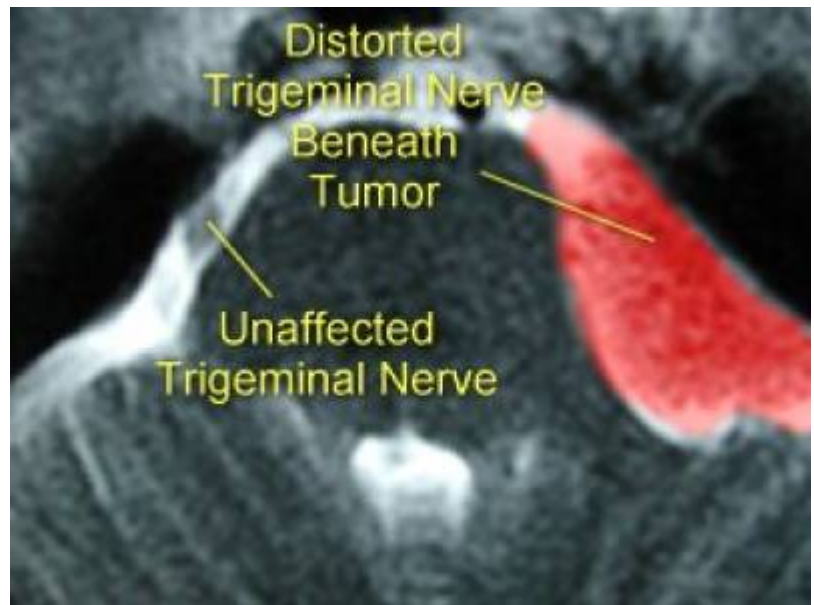


Tumor associated trigeminal neuralgia

Trigeminal neuralgia pathogenesis is uncertain. What is nominated as typically TN is **idiopathic**, but may be due to a structural lesion:



Posterior fossa tumors ^{1) 2) 3) 4) 5)}, contralateral posterior fossa tumors, ^{6) 7)} ipsilateral and contralateral supratentorial tumors ^{8) 9) 10) 11) 12)}.

Trigeminal neuralgia in **vestibular schwannoma** ¹³⁾.

Trigeminal neuralgia as the initial manifestation of temporal glioma ¹⁴⁾.

A supratentorial tumor can initiate TN even without a direct involvement of the trigeminal ganglion or nerve. Such tumors may lead to increased **intracranial pressure** and brain **shift** generating a pressure cone that distorts the **brain stem** and displaces an adjacent vessel, compressing the trigeminal nerve root.

Another explanatory mechanism in a patient with supratentorial tumor and hydrocephalus can be that pressure over the trigeminal sensory root rather than stretching of the nerve fiber leads to TN ¹⁵⁾.

References

^{1) 6)}

Deshmukh VR, Hott JS, Tabrizi P, Nakaji P, Feiz-Erfan I, Spetzler RF. Cavernous malformation of the trigeminal nerve manifesting with trigeminal neuralgia: Case report. Neurosurgery. 2005;56:E623.

^{2) 9)}

Deshpande S, Kaptain GJ, Pobereskin LH. Temporal glioblastoma causing trigeminal neuralgia. J Neurosurg. 1999;91:515.

³⁾

Gnanalingham K, Joshi SM, Lopez B, Ellamushi H, Hamlyn P. Trigeminal neuralgia secondary to Chiari's malformation-treatment with ventriculoperitoneal shunt. Surg Neurol. 2005;63:586-8. discussion 588-9.

^{4) 7) 10)}

Goel A, Sham A. Trigeminal neuralgia in the presence of ectatic basilar artery and basilar invagination: Treatment by foramen magnum decompression: Case report. J Neurosurg.

2009;111:1220-2.

5)

Peñarrocha-Diago M, Mora-Escribano E, Bagán JV, Peñarrocha-Diago M. Neoplastic trigeminal neuropathy: Presentation of 7 cases. *Med Oral Patol Oral Cir Bucal*. 2006;11:E106-11.

8)

Cirak B, Kimaz N, Arslanoglu A. Trigeminal neuralgia caused by intracranial epidermoid tumor: Report of a case and review of different therapeutic modalities. *Pain Physician*. 2004;7:129-32.

11)

Guttal KS, Naikmasur VG, Joshi SK, Bathi RJ. Trigeminal neuralgia secondary to epidermoid cyst at the cerebellopontine angle: Case report and brief review. *Odontology*. 2009;97:54-6.

12)

Love S, Coakham HB. Trigeminal neuralgia: Pathology and pathogenesis. *Brain*. 2001;124:2347-60.

13)

Apostolakis S, Karagianni A, Mitropoulos A, Filias P, Vlachos K. Trigeminal neuralgia in vestibular schwannoma: Atypical presentation and neuroanatomical correlations. *Neurochirurgie*. 2019 Mar 21. pii: S0028-3770(19)30024-4. doi: 10.1016/j.neuchi.2019.01.001. [Epub ahead of print] PubMed PMID: 30905383.

14)

Khalatbari M, Amirjamshidi A. Trigeminal neuralgia as the initial manifestation of temporal glioma: Report of three cases and a review of the literature. *Surg Neurol Int*. 2011;2:114. doi: 10.4103/2152-7806.83734. Epub 2011 Aug 13. PubMed PMID: 21886887; PubMed Central PMCID: PMC3162802.

15)

Cirak B, Kimaz N, Arslanoglu A. Trigeminal neuralgia caused by intracranial epidermoid tumor: Report of a case and review of different therapeutic modalities. *Pain Physician*. 2004;7:129-32.

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