Pontomesencephalic cistern

High-resolution magnetic resonance imaging scans are able to demonstrate significant volumetric differences of the pontomesencephalic cistern in patients with unilateral TN. A smaller cistern may be correlated with the occurrence of a neurovascular compression, and these findings support the neurovascular compression theory in idiopathic TN [1].

Park et al. confirmed that small pontomesencephalic cistern volumes were more frequent in patients with TN [2].

1)
Rasche D, Kress B, Stippich C, Nennig E, Sartor K, Tronnier VM. Volumetric measurement of the pontomesencephalic cistern in patients with trigeminal neuralgia and healthy controls. Neurosurgery. 2006 Sep;59(3):614-20; discussion 614-20. PubMed PMID: 16955043.
2)
Park YS, Ha SM. Does a small posterior fossa increase nerve vascular conflict in trigeminal neuralgia? Acta Radiol. 2014 Dec 8. pii: 0284185114561914. [Epub ahead of print] PubMed PMID: 25487716.