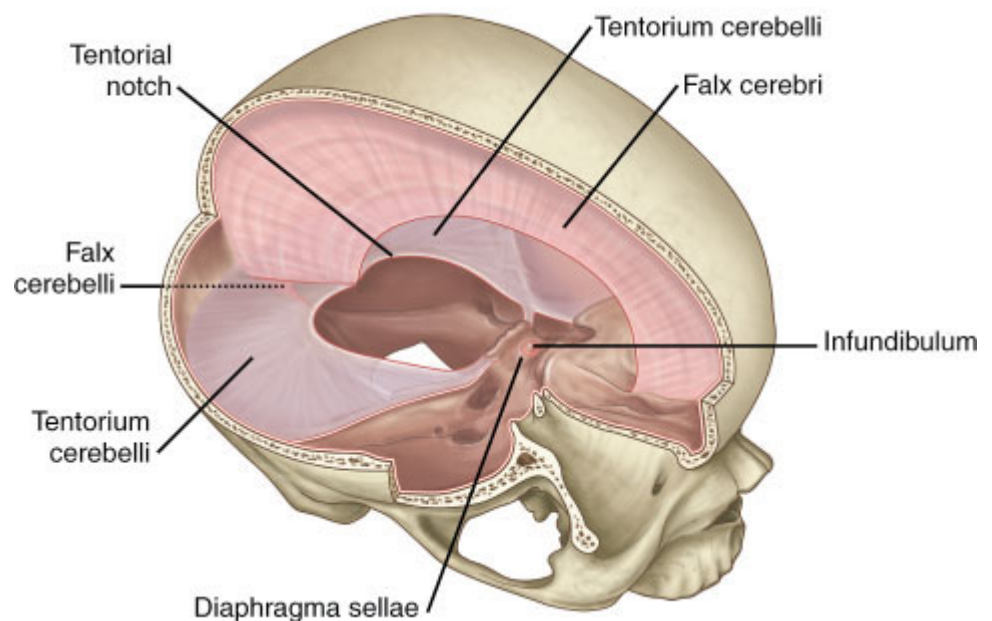


Tentorial incisure

Tentorial incisure (also known as the [tentorial notch](#) or incisura tentorii).



Refers to the anterior opening between the free edge of the [tentorium cerebelli](#) and the [clivus](#) for the passage of the [brainstem](#).

Structure

The tentorial incisura is located between the tentorial edges and communicates the supratentorial and infratentorial spaces. This area can be divided into three spaces: anterior, middle (lateral to), and posterior to the brainstem. The middle incisural space is close to the midbrain and the upper pons at the level of the pontomesencephalic sulcus. Mesial temporal lobe structures such as the uncus, the parahippocampal gyrus and the hippocampal formation, are also intimately related to the incisura. The principal vascular structures coursing along the middle incisural space are the posterior cerebral artery and the superior cerebellar artery which pass around the brainstem, parallel to the free tentorial edge. The incisura has also a close relationship with the first 6 cranial nerves.

Clinical significance

If Intracranial pressure superior to the tentorium cerebelli is increased, it may force part of the temporal lobe through this notch. This is referred to as a tentorial brain herniation. The consequences are unconsciousness, widening of the pupil of the affected side, and hemiparesis on the opposite side.

see [Tentorial notch meningioma](#).

The causes of [Perimesencephalic Subarachnoid Hemorrhage](#) suggest a venous or capillary rupture at the level of the [tentorial notch](#) ^{1) 2) 3)}

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Schwartz TH, Yoon SS, Cutruzzola FW, Goodman RR. Third ventriculostomy: Post-operative ventricular size and outcome. Minim Invasive Neurosurg. 1996;39:122-9.

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van Gijn J, van Dongen KJ, Vermeulen M, Hijdra A. Perimesencephalic hemorrhage: A nonaneurysmal and benign form of subarachnoid hemorrhage. Neurology. 1985;35:493-7.

³⁾

Rinkel GJ, Wijndicks EF, Vermeulen M, Hageman LM, Tans JT, van Gijn J. Outcome in perimesencephalic (nonaneurysmal) subarachnoid hemorrhage: A follow-up study in 37 patients. Neurology. 1990;40:1130-2.

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