



Basic Overview of Meninges and Dural Sinuses

DR. BEDA OLABU

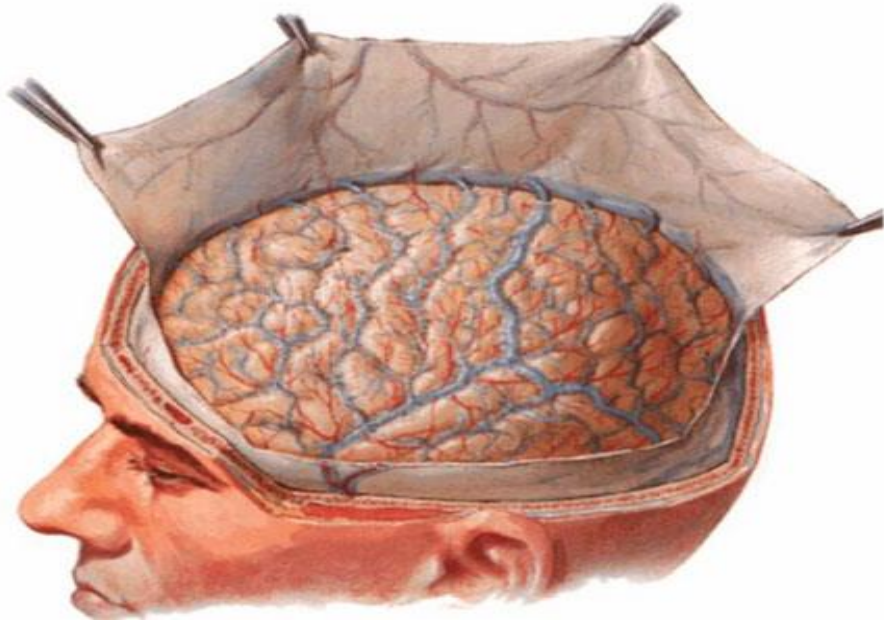
DEPARTMENT OF HUMAN ANATOMY

UNIVERSITY OF NAIROBI

Expected Learning Outcomes:

1. Name the meningeal layers
2. Define the meningeal spaces and state the contents of each
3. Describe the dural reflections and state their contents
4. Location and communications of the dural venous sinuses
5. Innervation of the cranial dura
6. Clinical significance**

Meningeal Layers and Spaces

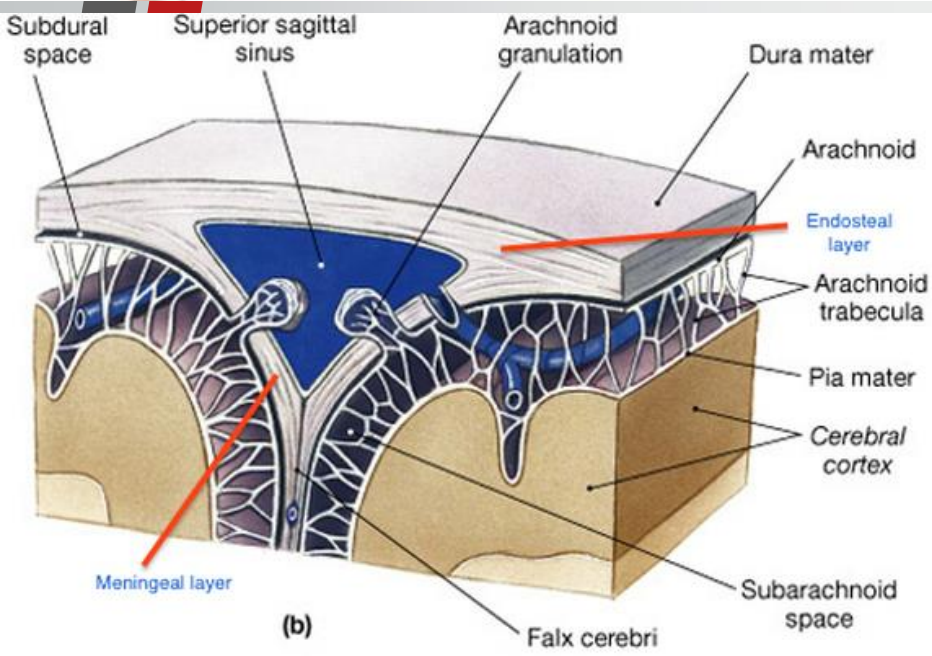


- Definition

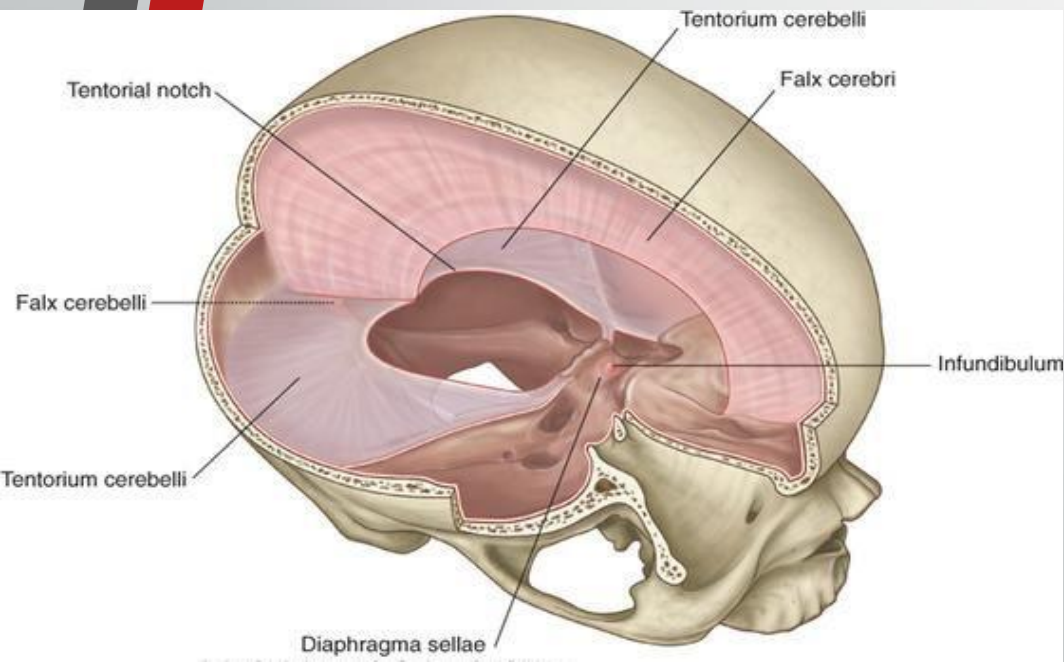
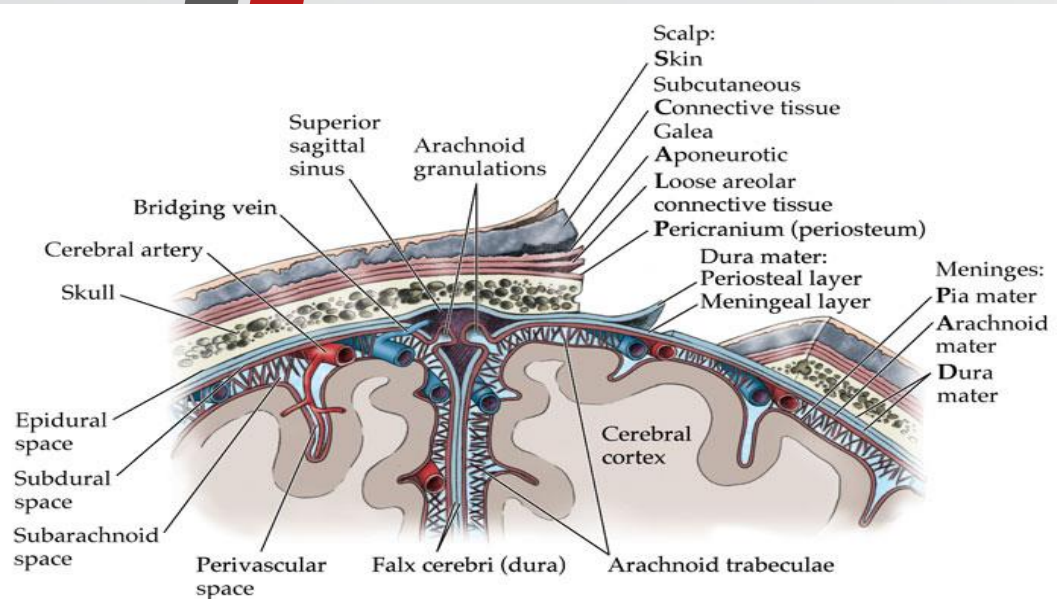
- Layers

- Layers of the cranial dura

- Meningeal spaces

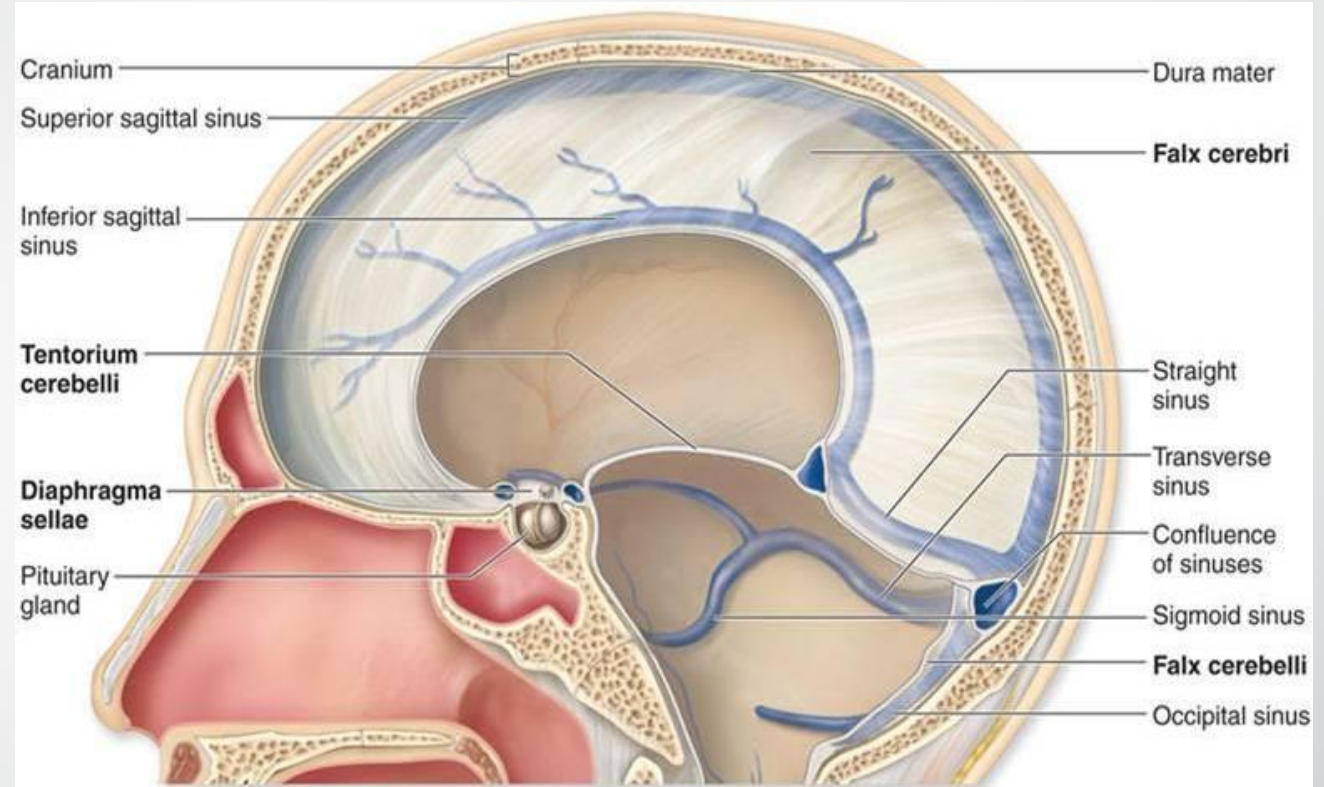
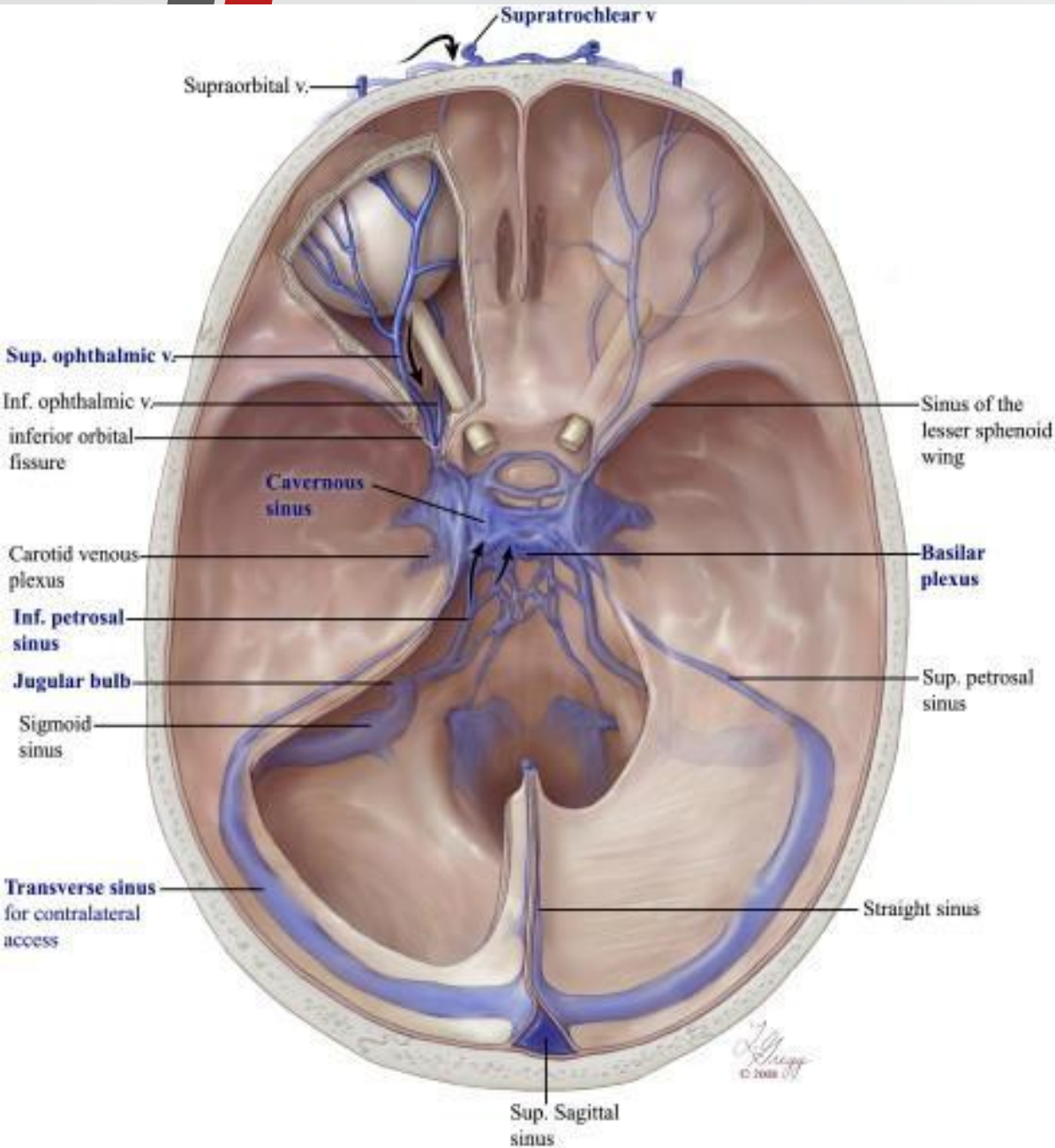


Dural Reflections



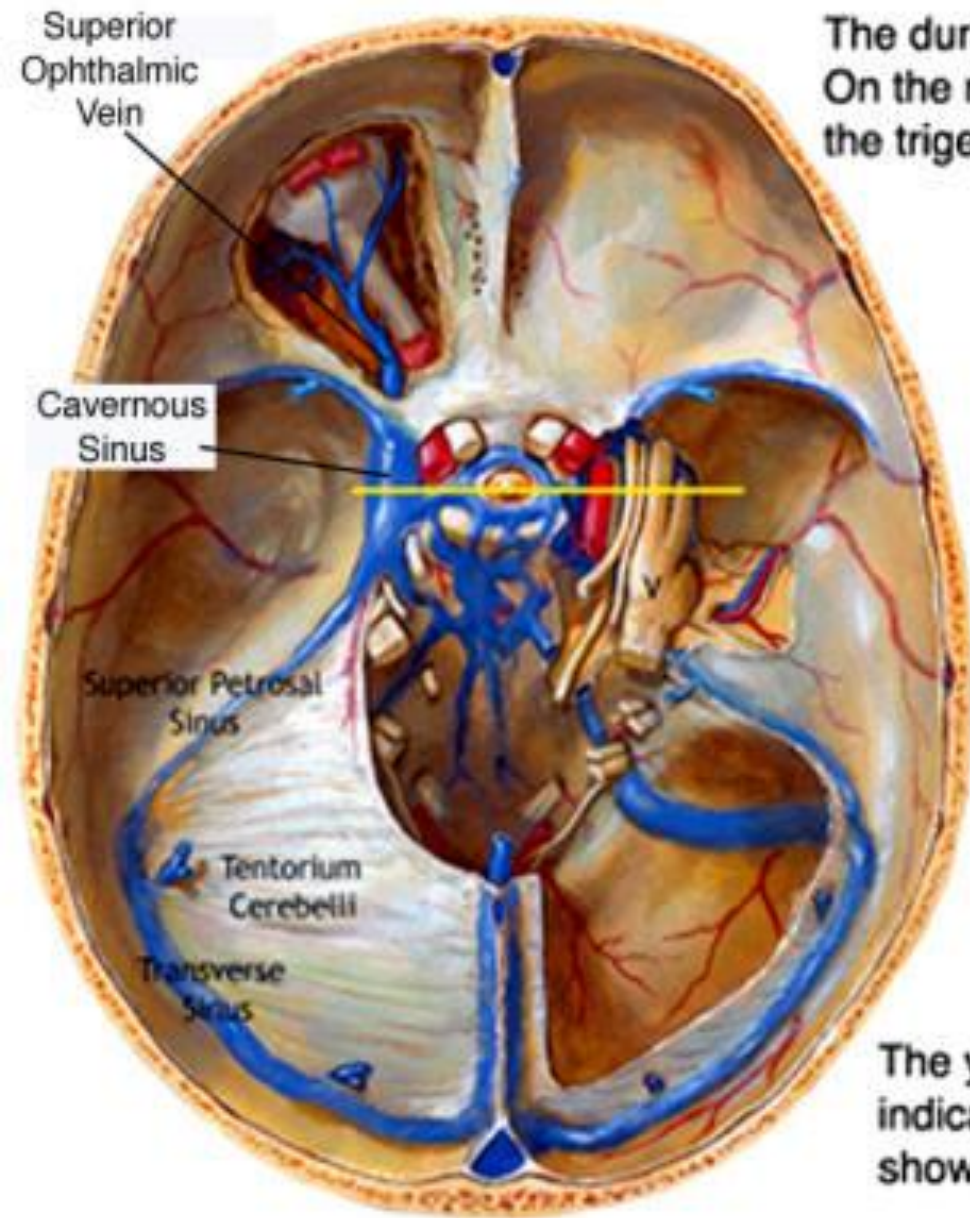
- Definition
- Four main reflections
- Functions

Dural Venous Sinuses

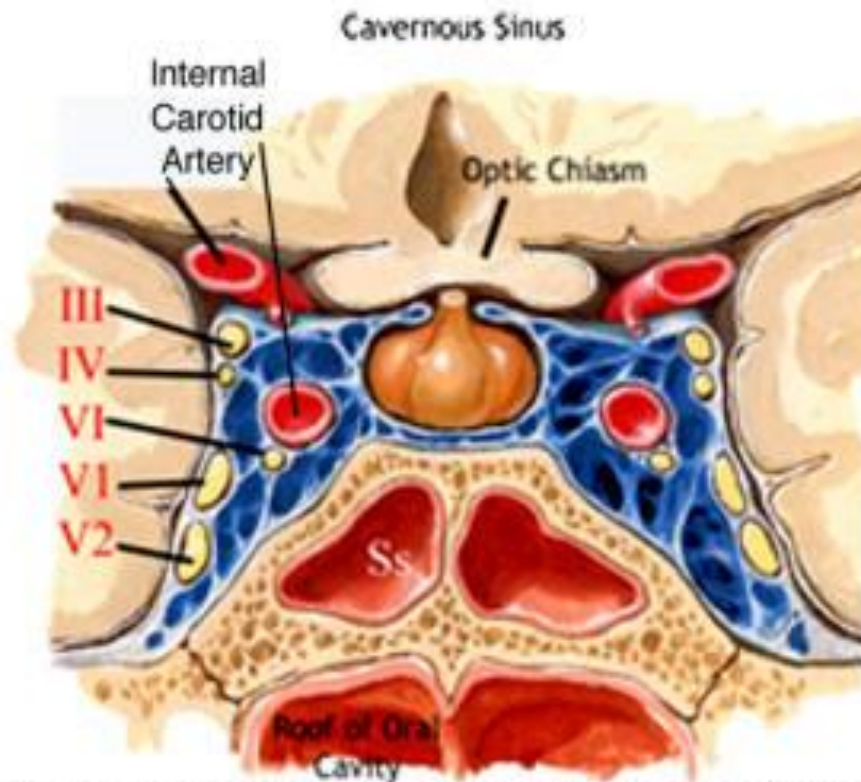


- Definition
- Unique features

Cavernous Sinus



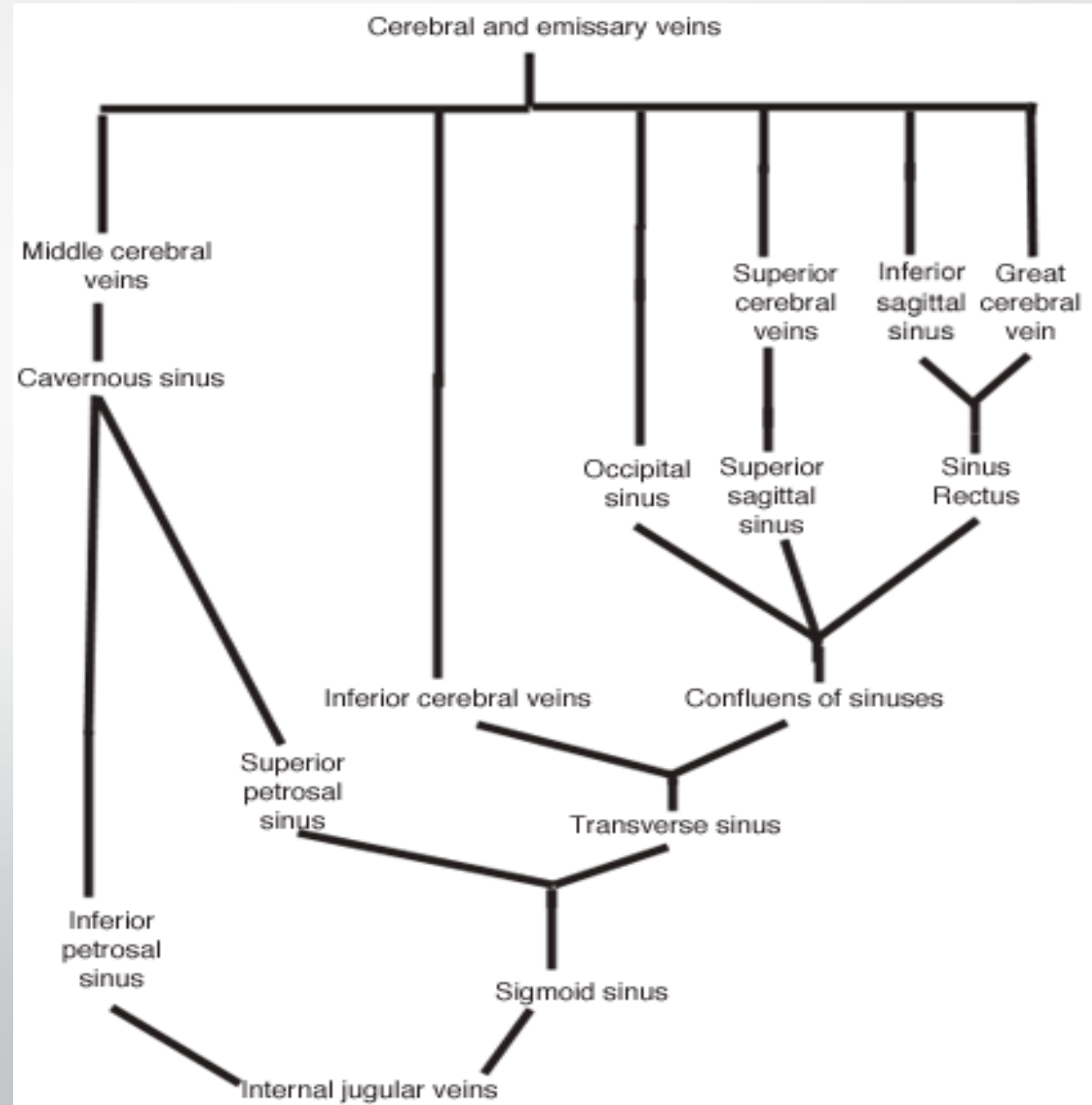
The dura and sinuses are intact on the left side. On the right, the dura has been removed revealing the trigeminal ganglion.



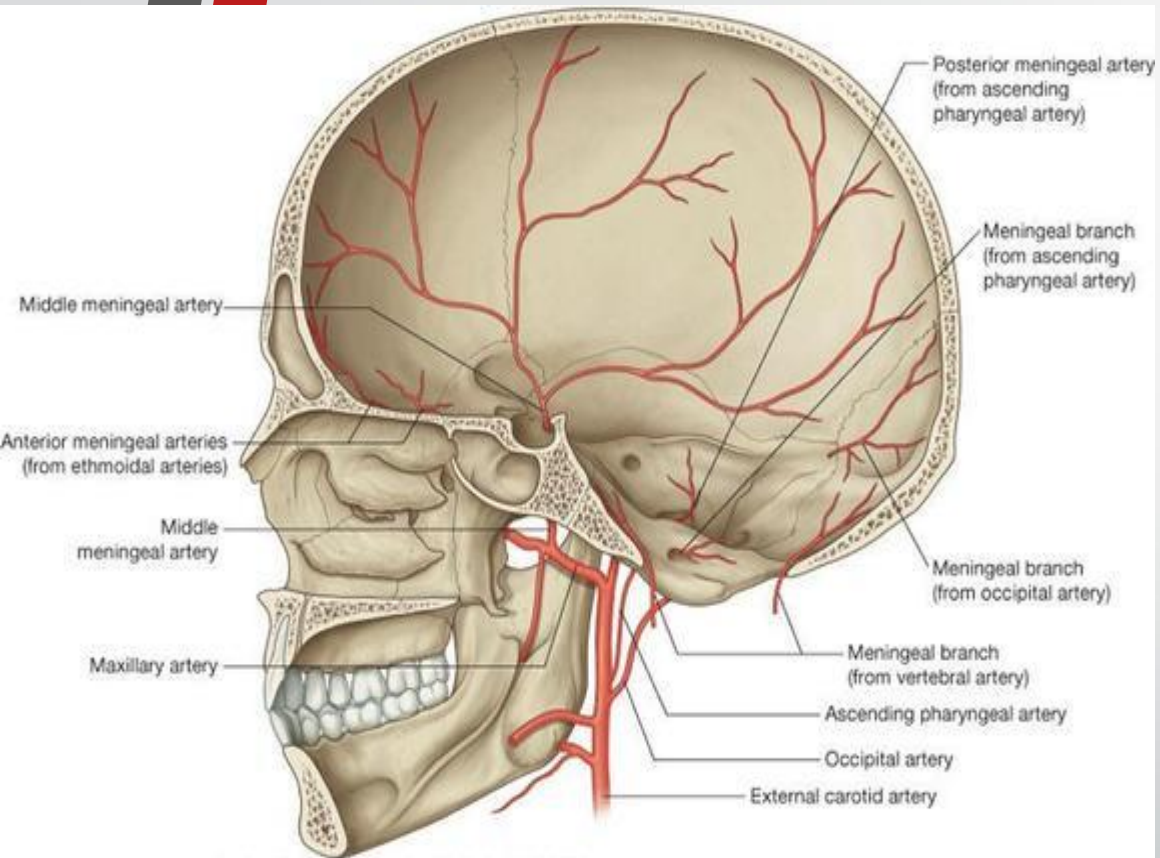
The yellow line crossing over the hypophyseal fossa indicates the plane of section of the image above. It shows the cavernous sinus and its contents.

- Location
- Extents
- Relations
- Contents
- Communications
- Clinical relevance

Dural Venous Sinuses

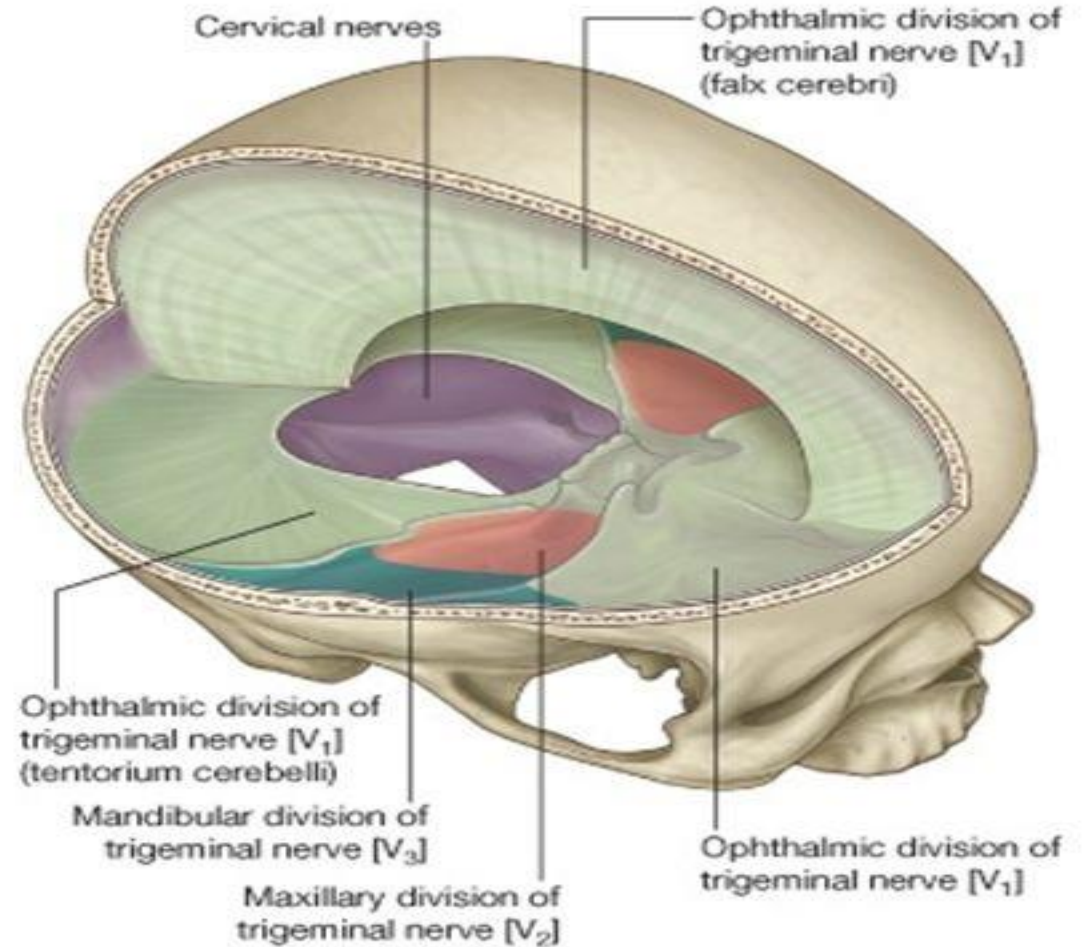


Vascular supply to the cranial dura



Innervation of the Dura

- Dura is sensitive to ?? --► headache
- Dura of **Posterior cranial fossa** by branches from cervical spinal nerves (**C1, C2 & C3**)
- Dura of **ACF, MCF, Falx cerebri & Tentorium Cerebelli** by **Trigeminal nerve**:
 - 1- Anterior meningeal nerves
 - 2- Tentorial nerve
 - 3- Meningeal branches of maxillary and Mandibular divisions of Trigeminal nerve





THE END