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1. Cavernous sinus

The cavernous sinuses are one of the drainage pathways for the brain that sits in the middle. The left and right cavernous sinuses communicates through the ant and posterior intercavernous sinuses. It is located within the middle cranial fossa on either side of the sella turcica of the sphenoid bone. They are enclosed by the endosteal and meningeal layers of the dura mater.

BORDERS

Ant- superior orbital fissure

Posterior- petrous part of temporal bone

Medial- body of sphenoid bone

Lateral- meningeal layer of dura mater

Floor- endosteal layer of dura mater

CONTENTS

Structures that travels through it:

1. Abducens nerve CNVI
2. Carotid plexus
3. Internal carotid artery

Structures that travels lateral wall of cavernous sinus:

1. Oculomotor nerve CNIII
2. Trochlear nerve CNIV
3. Ophthalmic and maxillary branch of trigeminal nerve.

RELATIONS

The cavernous sinus does not have a unidirectional flow of blood

. The flow of blood is dependent on venous pressure. The vein that communicates with the cavernous sinus are:

1. Superior ophthalmic vein
2. Inferior ophthalmic vein
3. Superficial middle cerebral vein
4. Middle meningeal vein
5. Hypophyseal vein

The cavernous sinus drains to the superior and inferior petrosal sinuses. Both sinuses join the sigmoid sinus, which then becomes the internal jugular vein. The internal jugular vein meets with the subclavian vein to become the left or right brachiocephalic vein.

1. Walls of the nose
* Medial wall

It comprises of the septum, septal cartilage, various bones of the skull:

* The vomer posteroinferiorly
* Perpendicular plate of ethmoid bone superoinferiorly
* Crest of maxillary bone anteroinferioly
* Crest of palatine bone inferior to vomer

the septal cartilage divides the nasal cavity into two.

* Lateral wall

This is the region of the nasopharynx essential for humidifying and filtering the air we breathe in. It contains nasal septum and nasal conchae

There are 3 nasal conchae

* Inferior nasal concha: longest and broadest.
* Superior nasal concha: a bony shelf above the middle concha and below the sphenoethmoidal recess.
* Middle nasal concha: humidify and clear inspired air.