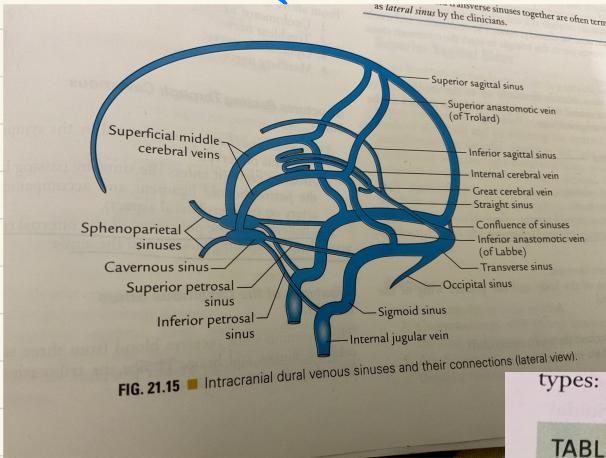


Intracranial Dural Venous Sinuses

↳ Separation of a layer of cranial dura

↳ A duplication of meningeal layer

- Only inferior sagittal & straight sinus doesn't lie b/w meningeal & endosteal layers of dura mater.
- Drain from brain to skull bones
- Ultimately drain to internal jugular vein



Characteristics

- Muscular coat absent
- Line by endothelium only
- Devoid of valves
- Receive venous blood & CSF

types: paired and unpaired (Table 21.1).

TABLE 21.1 Classification of the dural venous sinuses (seven paired and seven unpaired)

Unpaired sinuses	Paired sinuses
1. Superior sagittal	1. Cavernous
2. Inferior sagittal	2. Superior petrosal
3. Straight	3. Inferior petrosal
4. Occipital	4. Transverse
5. Anterior intercavernous	5. Sigmoid
6. Posterior intercavernous	6. Sphenoparietal
7. Basilar venous plexus	7. Petrosquamous

→ Middle meningeal vein
middle meningeal sinus



CAVERNOUS SINUS

~2cm long, 1cm wide

(Read
Clinical
book)

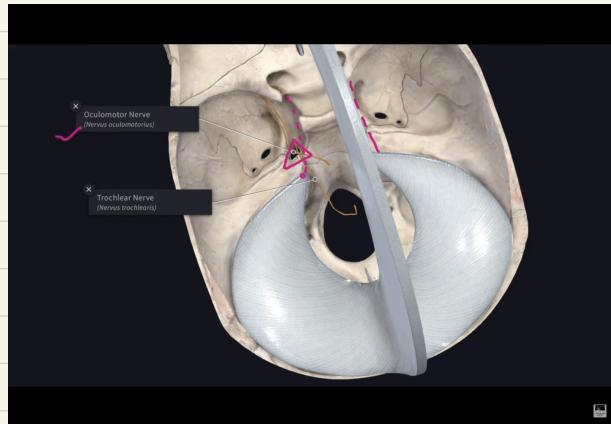
• Location

Either side of body of sphenoid is sella turcica in middle cranial fossa

-Floor:- Endosteal layer

- Lateral, Roof, medial:- meningeal layer

* Triangle



→ Posterior to cavernous sinus

→ Blw attached margin of tentorium cerebelli to post. clinoid process is ridge raised by free margin of TC as it extend to ant. clinoid process
→ Oculomotor I trochlear nerve

* Extent

Anterior:- Medial end of Superior orbital fissure

Posterior: Apex of petrous temporal bone

Inj: -
L foremen
rcnum

2 Junction of
body & GW
of sphenoid

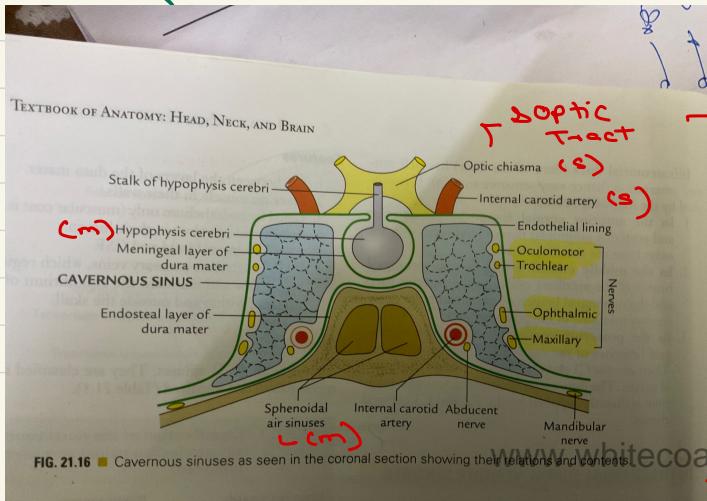
Lateral

Temporal Lobe

Canum

Trigeminale

trigeminal
ganglion



→ Sup.
↓ ant. periorbita

Point
is on
Apex of
Orbit

Post
Locus caerulei
of midbrain

Structure in lateral wall

0 - maxillary
0 - oculomotor
1 - Trochlear
0 - Optic
0 - Optic Nerve

Structure passing through

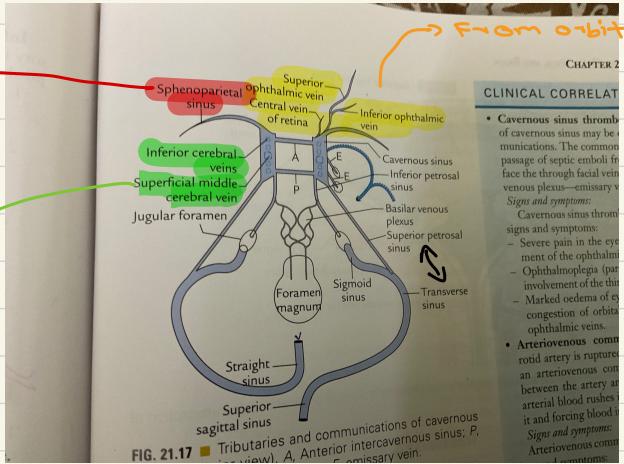
A - Abducent nerve
I - Internal Carotid Artery

Pulsation of ICA help in expelling blood from sinus

Tributaries

From meninges
(along with anterior trunk of middle meningeal vein)

From brain



Communication

- Transverse sinus via Sup. petrosal sinus
- IJV via inf. petrosal sinus
- Pterygoïd venous plexus via emissary vein
- Opp. cavernous sinus via A d/s intercavernous sinus
- Sup. sagittal sinus via SF middle cerebral
nfin & sup. anastomotic vein
- Internal vertebral venous plexus via basilar venous plexus

→ FACIAL VEIN

- Sup. Ophthalmic Vein → Angular Vein → Facial Vein
- Emissary vein → Pterygoïd Venous Plexus
→ Deep Facial vein → Facial Vein

SUPERIOR SAGITTAL SINUS

- ↳ Triangular
- ↳ Begins at crista galli
- ↳ Lodges itself in sagittal groove

(^{read}
Clinical
Handbook)

On reaching
int. occipital
protuberance

↓
Deviate
usually to
right

↓
continuous
with right
sigmoid
sinus

• Sigmoid
sinus (R)
↳ Sigmoid
Foresmen
R IISU

SIZE
↑
to 30
back

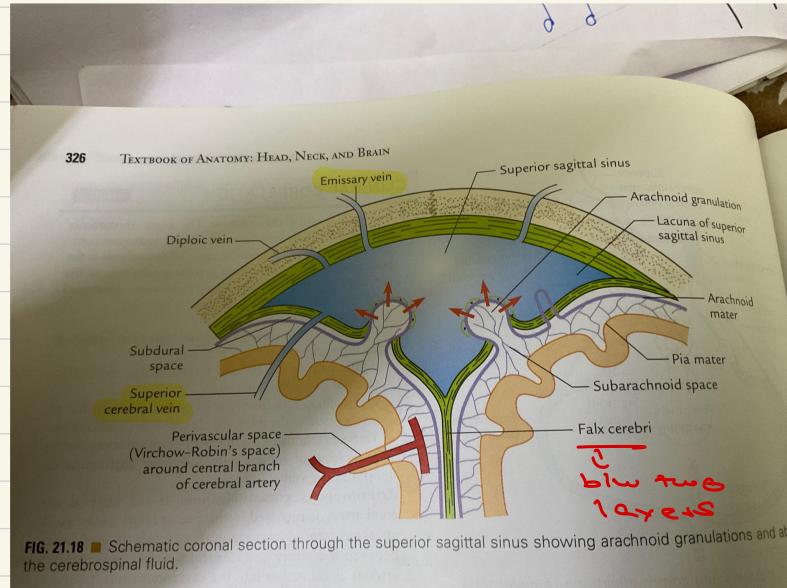


FIG. 21.18 ■ Schematic coronal section through the superior sagittal sinus showing arachnoid granulations and abscesses in the cerebrospinal fluid.

• Feature

- Communicate with venous lacunae on each side, site of drainage of diploic & meningeal veins
- Arachnoid granulations projection into lumen.

• Tributaries

- ↳ Sup. Cerebral Vein
- ↳ Small vein from nasal cavity

P - Parietal emissary vein

V - Vein of frontal air sinus