

VENOUS ANATOMY OF BRAIN

DR. SAJAD TAK ,DNB SS(STUDENT)

Venous drainage

Superficial veins of the cerebrum

Superficial cerebral veins

Inferior cerebral veins

Superficial middle cerebral vein

Deep veins of the cerebrum

Internal cerebral veins

Great cerebral vein (of Galen)

Basal veins

Veins of the cerebellum

Superior cerebellar veins

Inferior cerebellar veins

Dural venous sinuses

Superior sagittal sinus

Inferior sagittal sinus

Straight sinus

Transverse sinus

Sigmoid sinus

Cavernous sinus

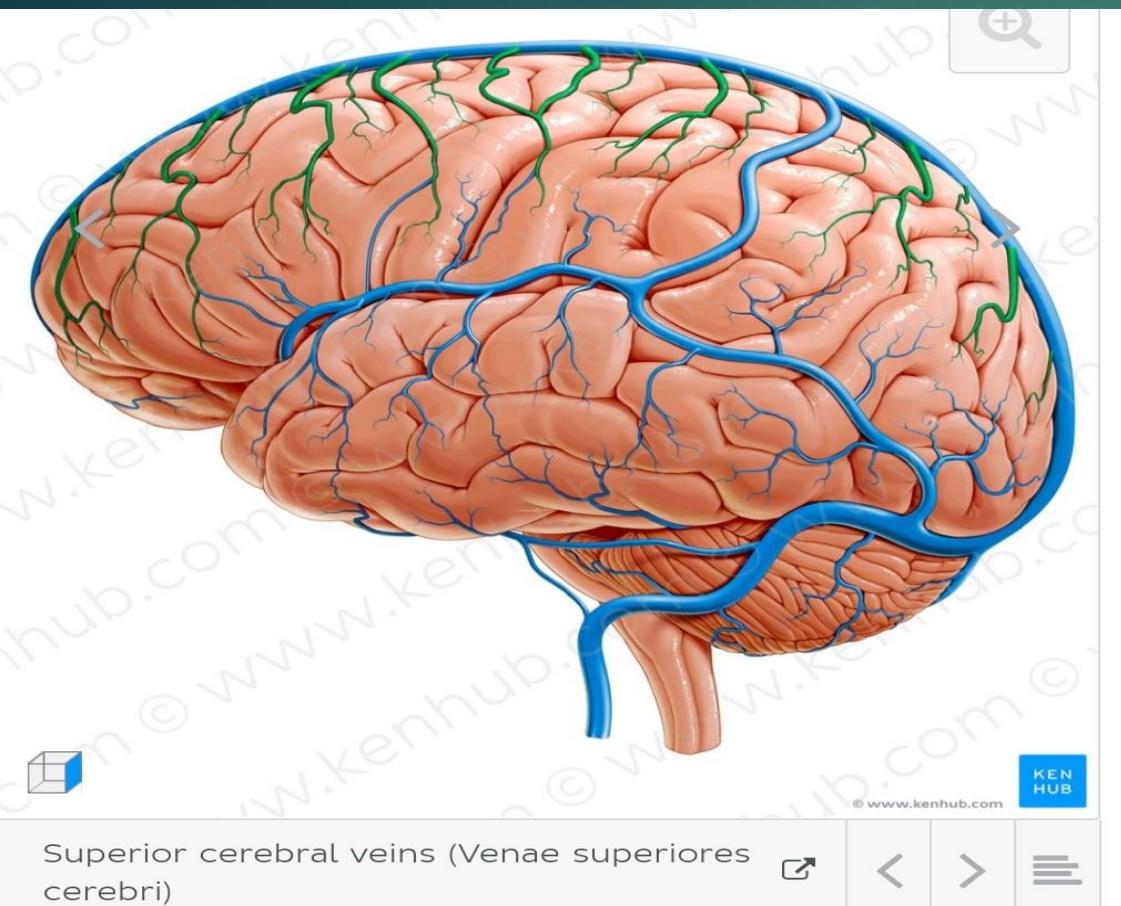
Sphenoparietal sinus

Petrosal sinus

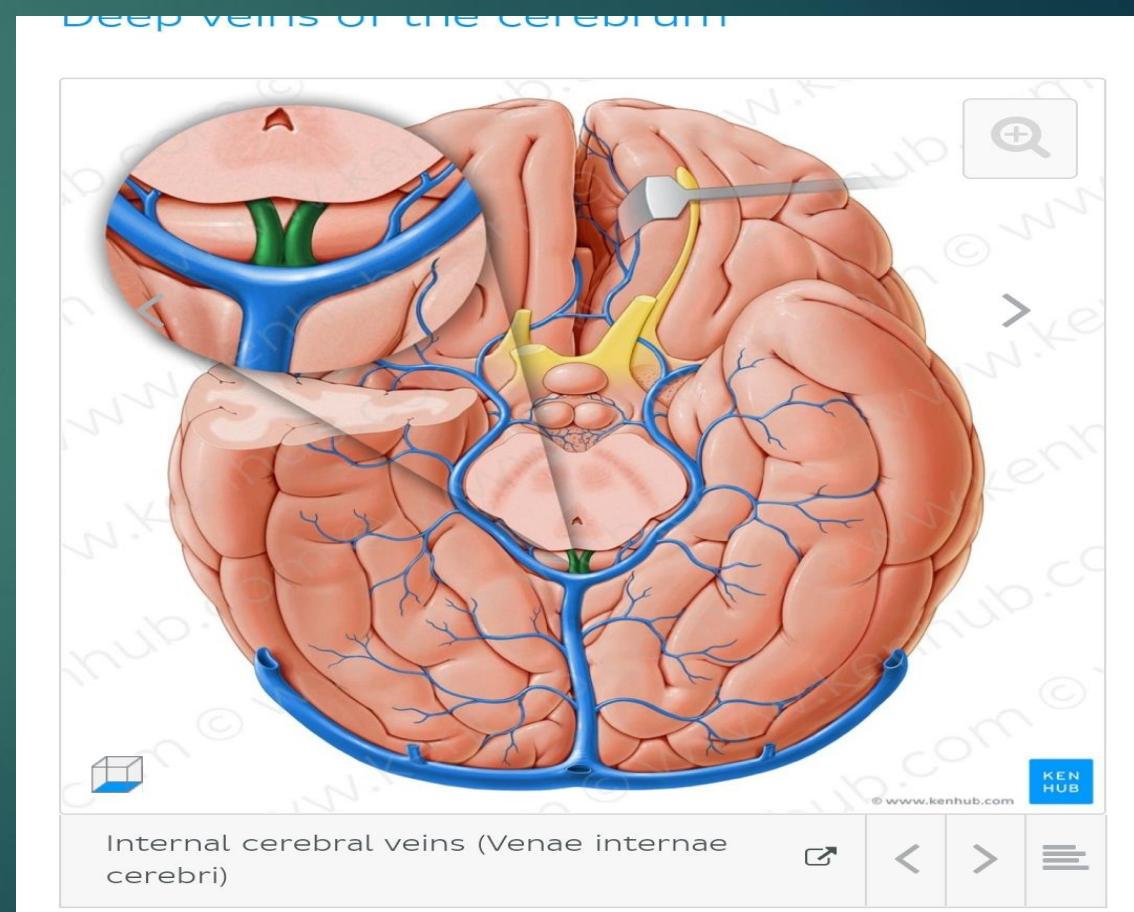
Occipital sinus.

Venous drainage

Superior cerebral veins



Deep cerebral veins



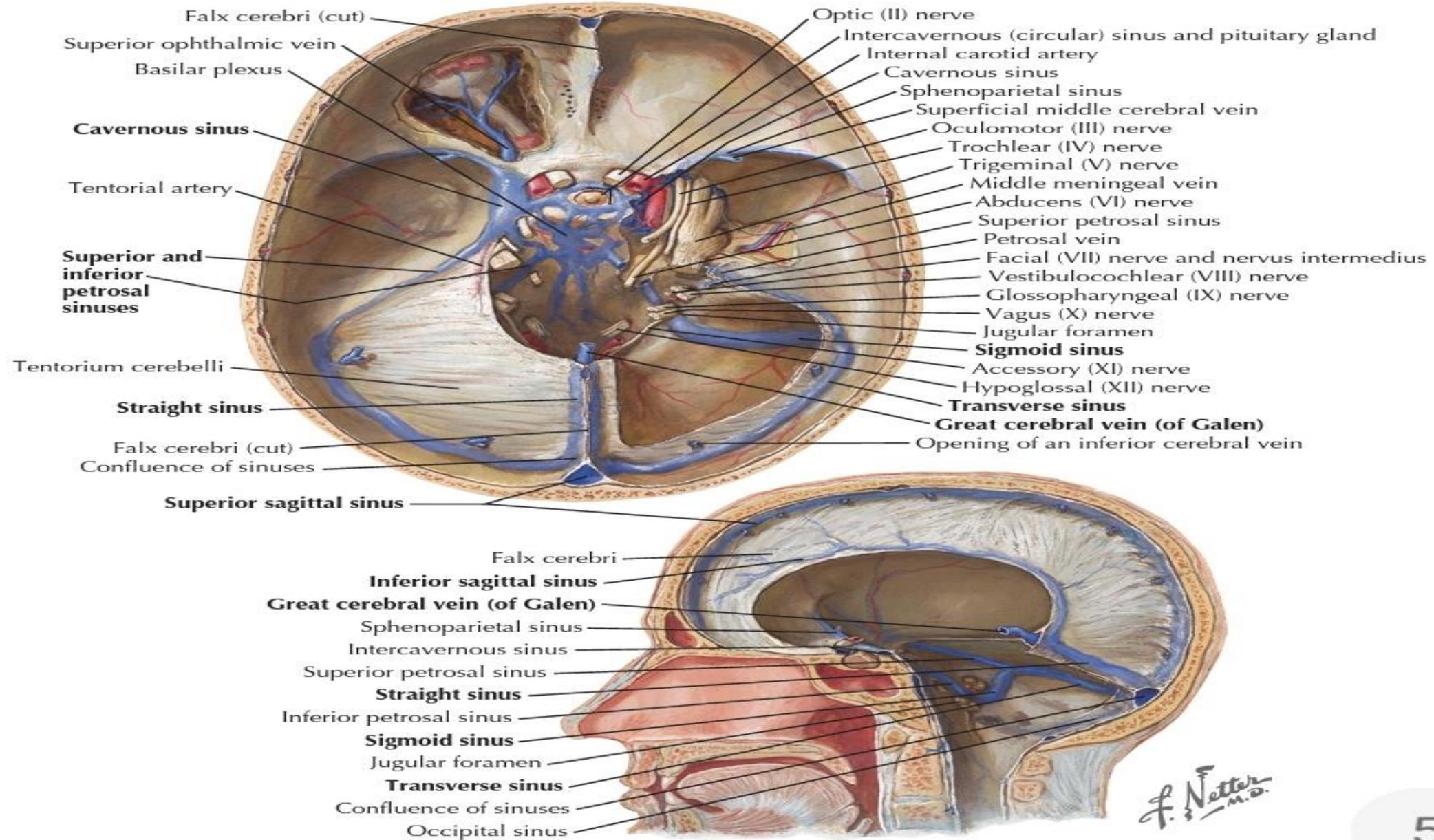
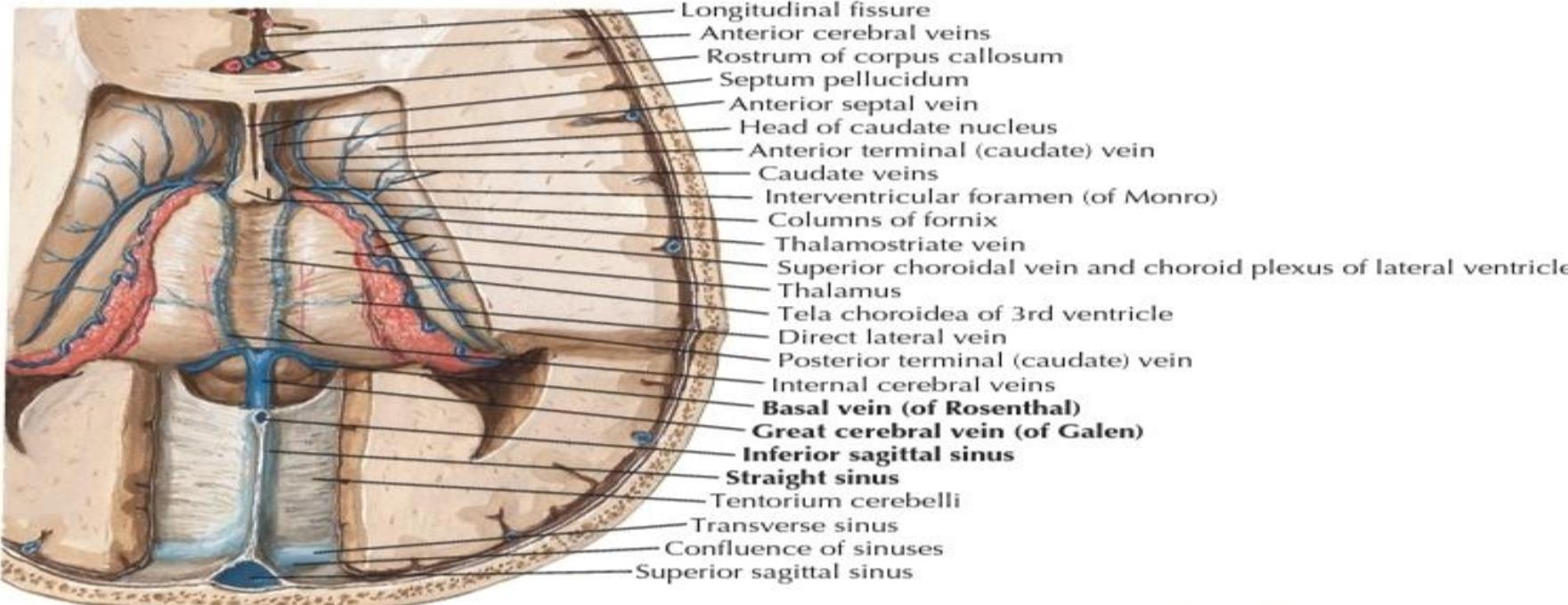
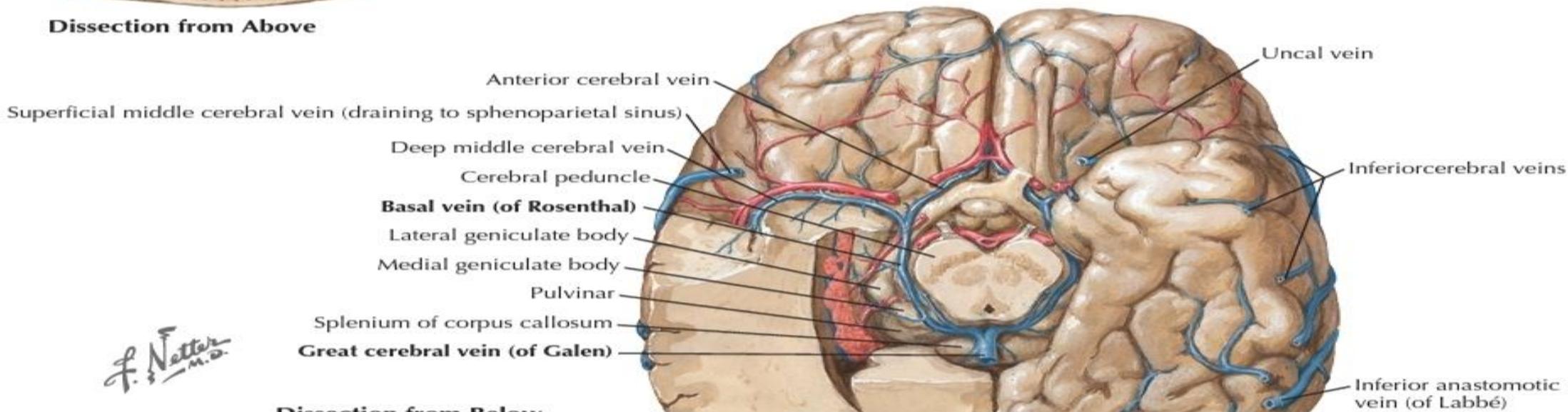


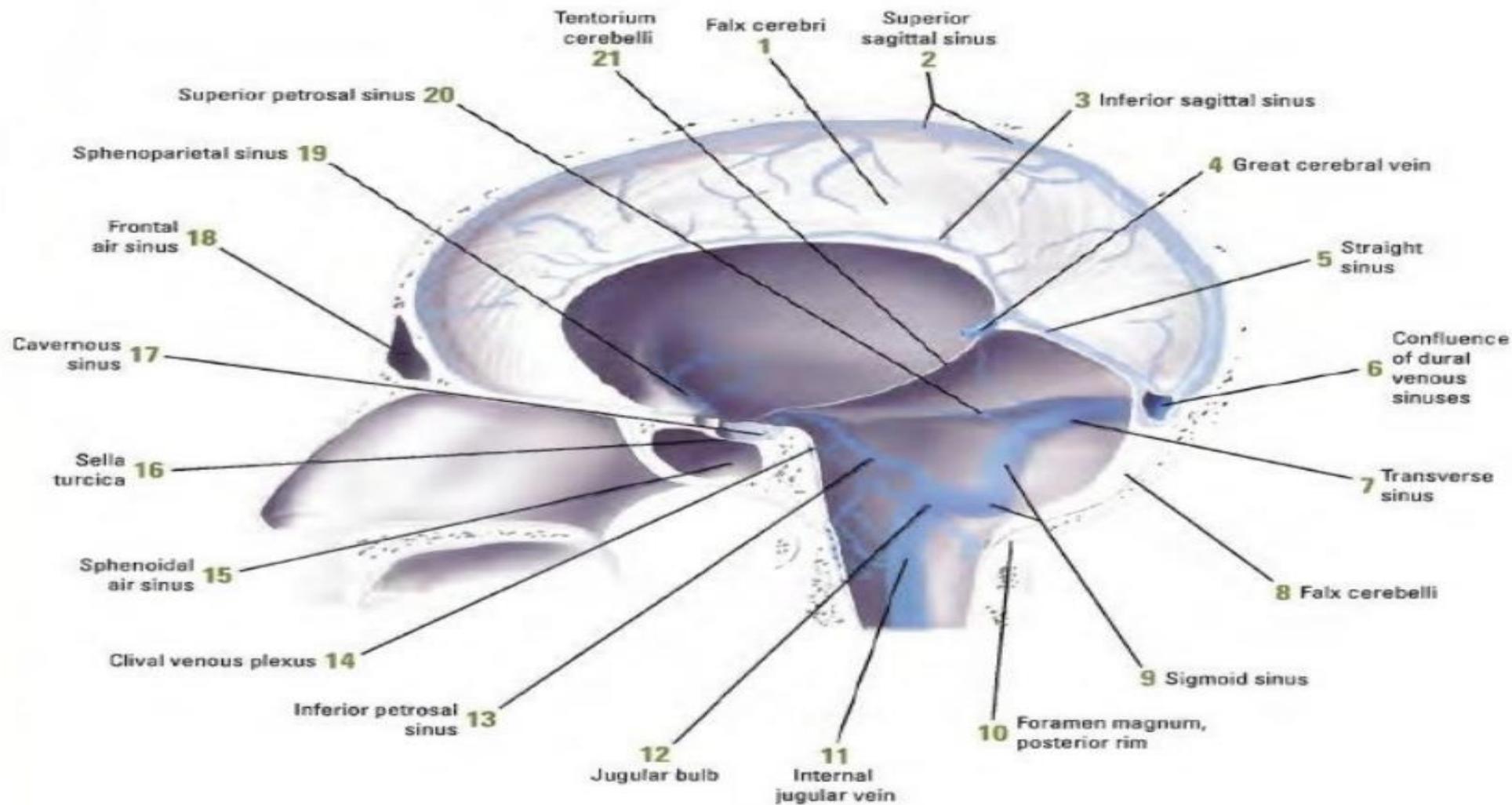
Figure 56-1 Dura Mater Venous Sinuses.



Dissection from Above



Dissection from Below



Cavernous sinus 17

Clival venous plexus 14

Confluence of dural venous sinuses (torcular of *Herophilus*) 6

Falx cerebelli 8

Falx cerebri 1

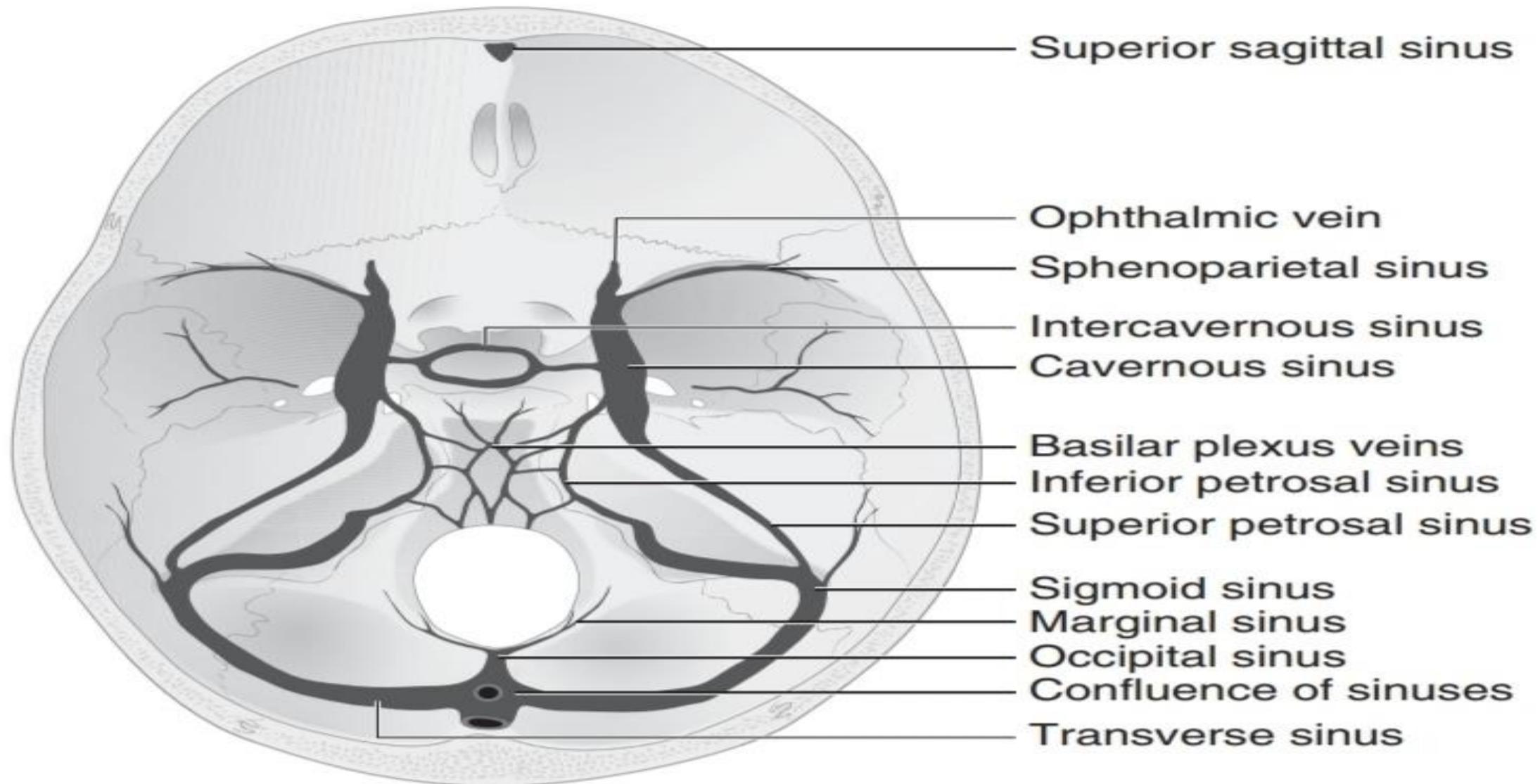


Figure 2.25 Drawing of the base of the skull with the brain removed showing the various dural sinuses.

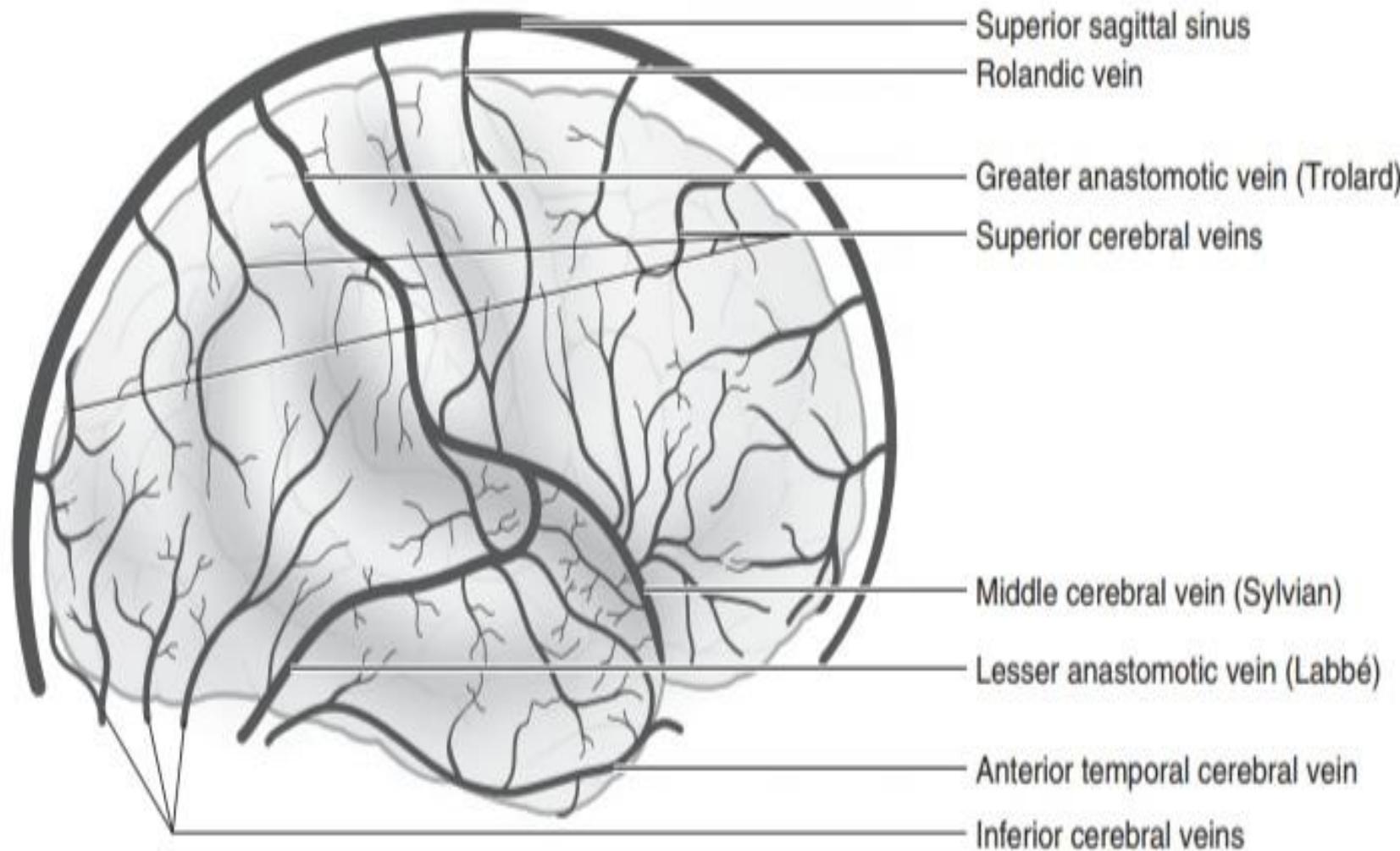


Figure 2.28 Drawing of major superficial veins seen on lateral surface of the left cerebral hemisphere.

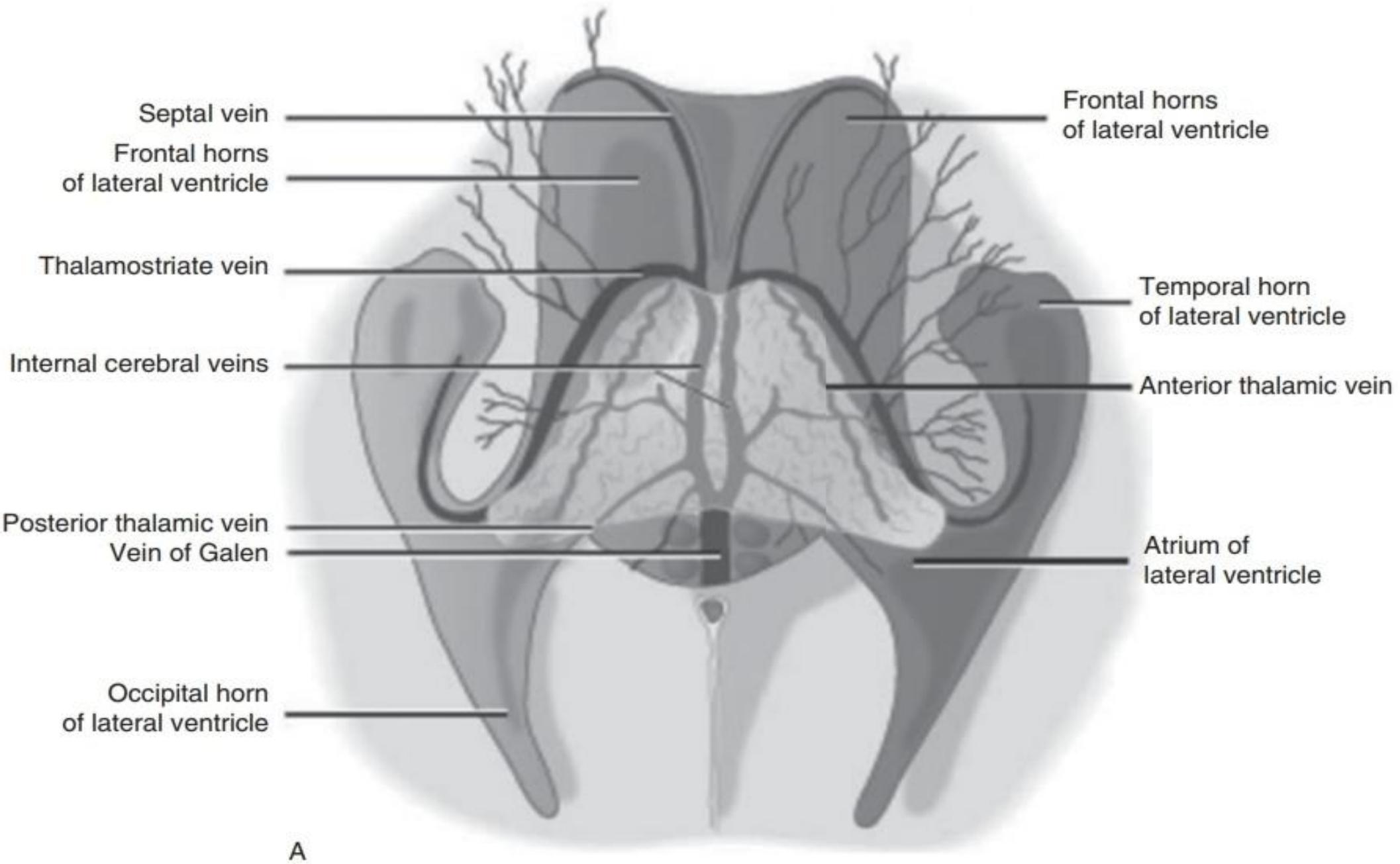


Figure 2.29 ...
the deep venous system: (A) axial section showing the veins and their relations to the lateral ventricles; (B) sagittal section.

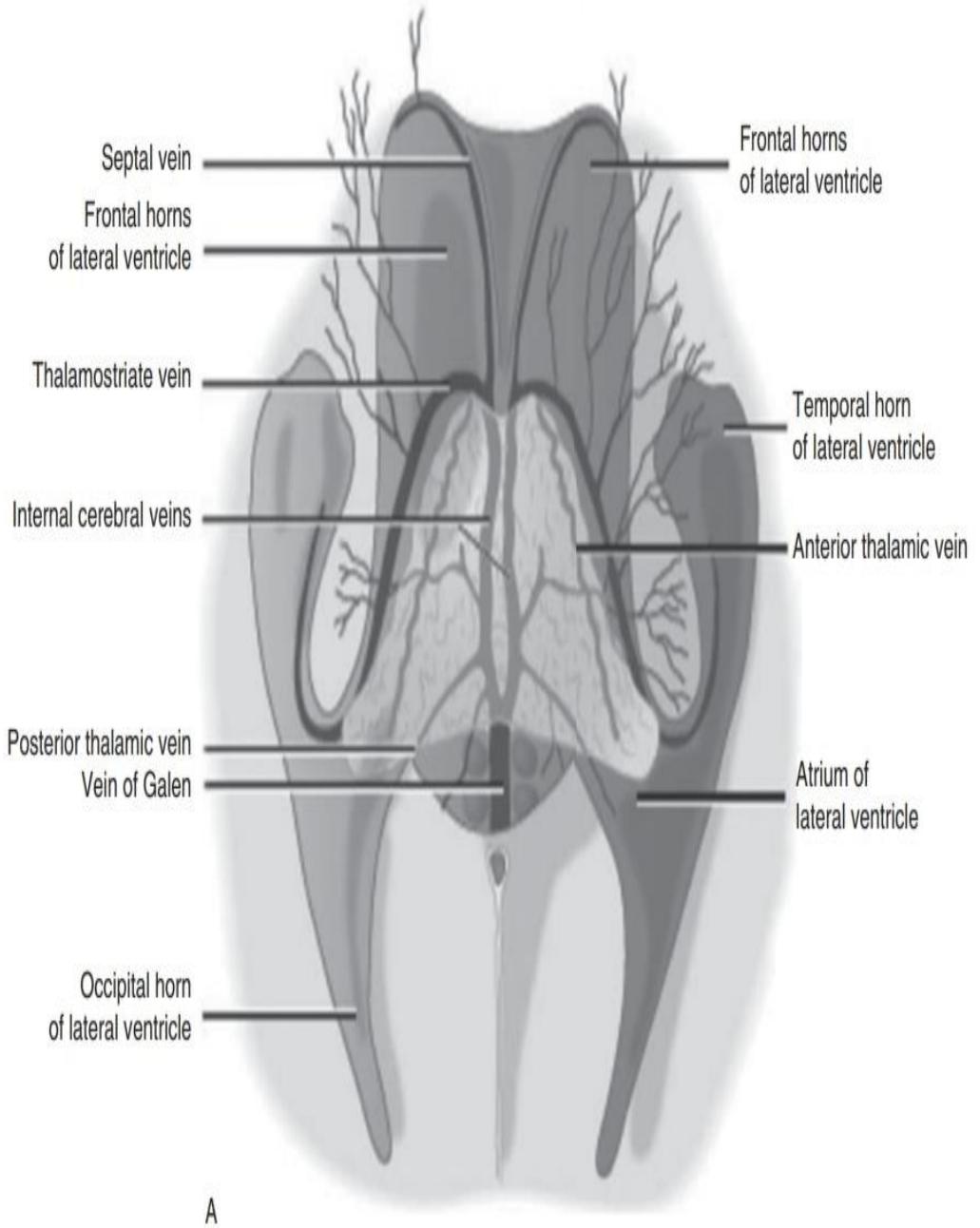
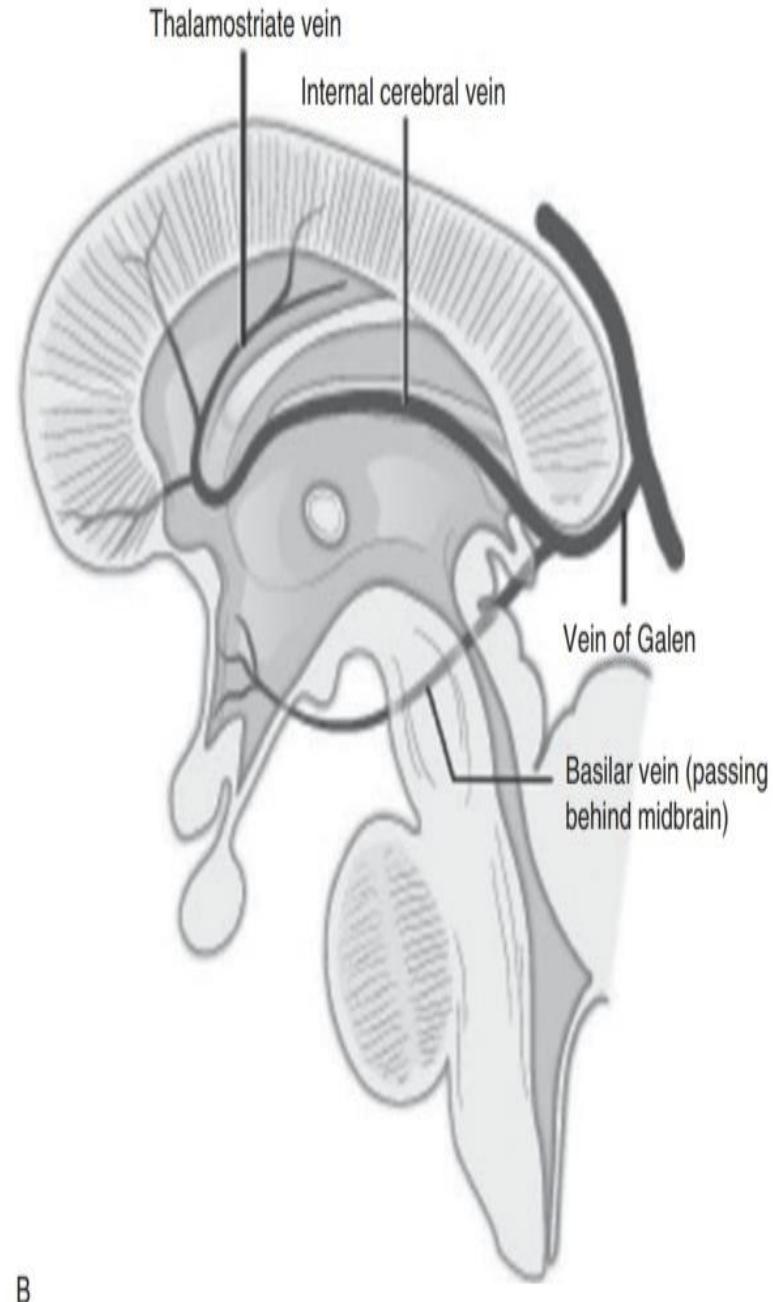


Figure 2.29 |
the deep veno
system: (A) axia
showing the ve
their relations t
ventricles; (B) s
section.



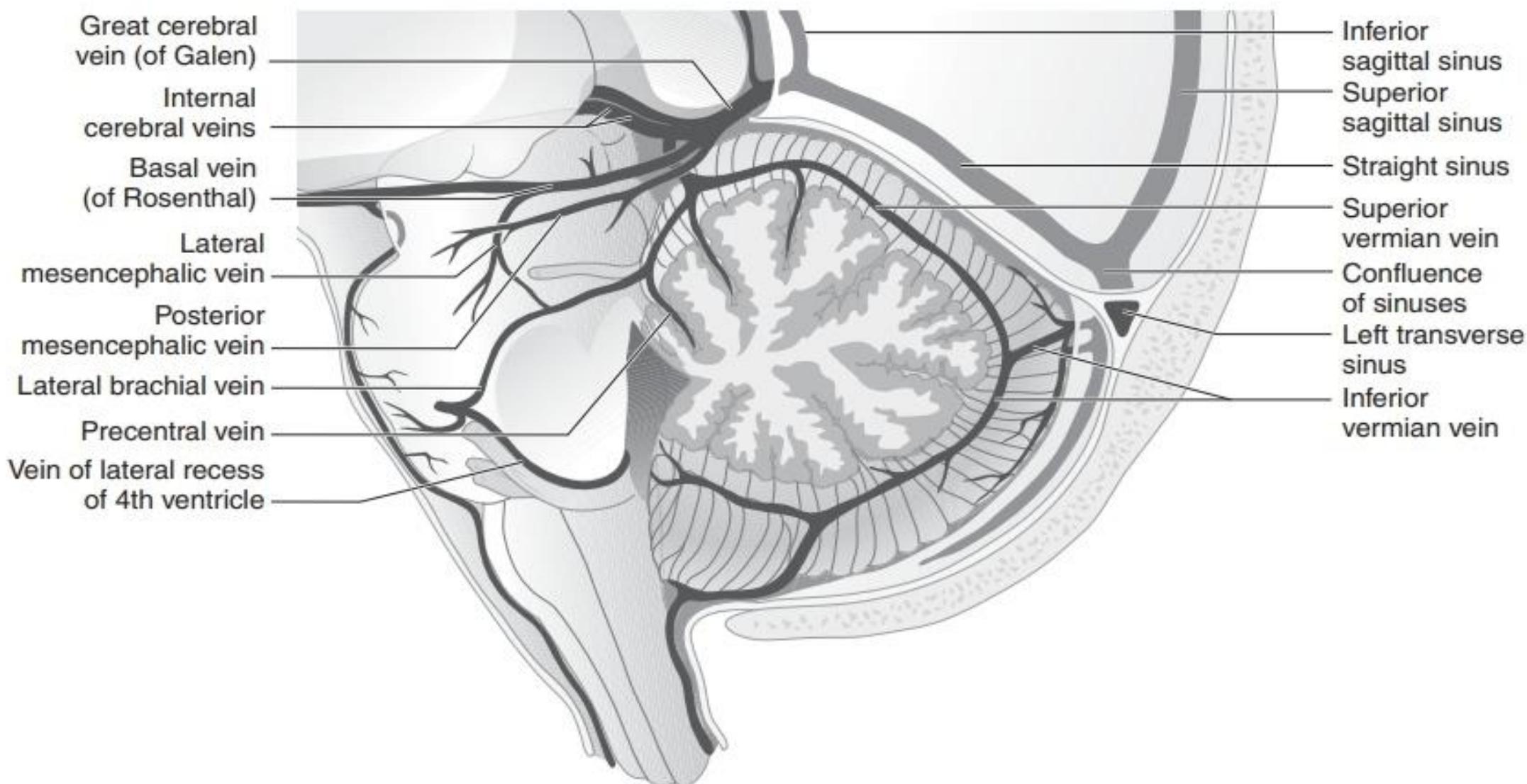
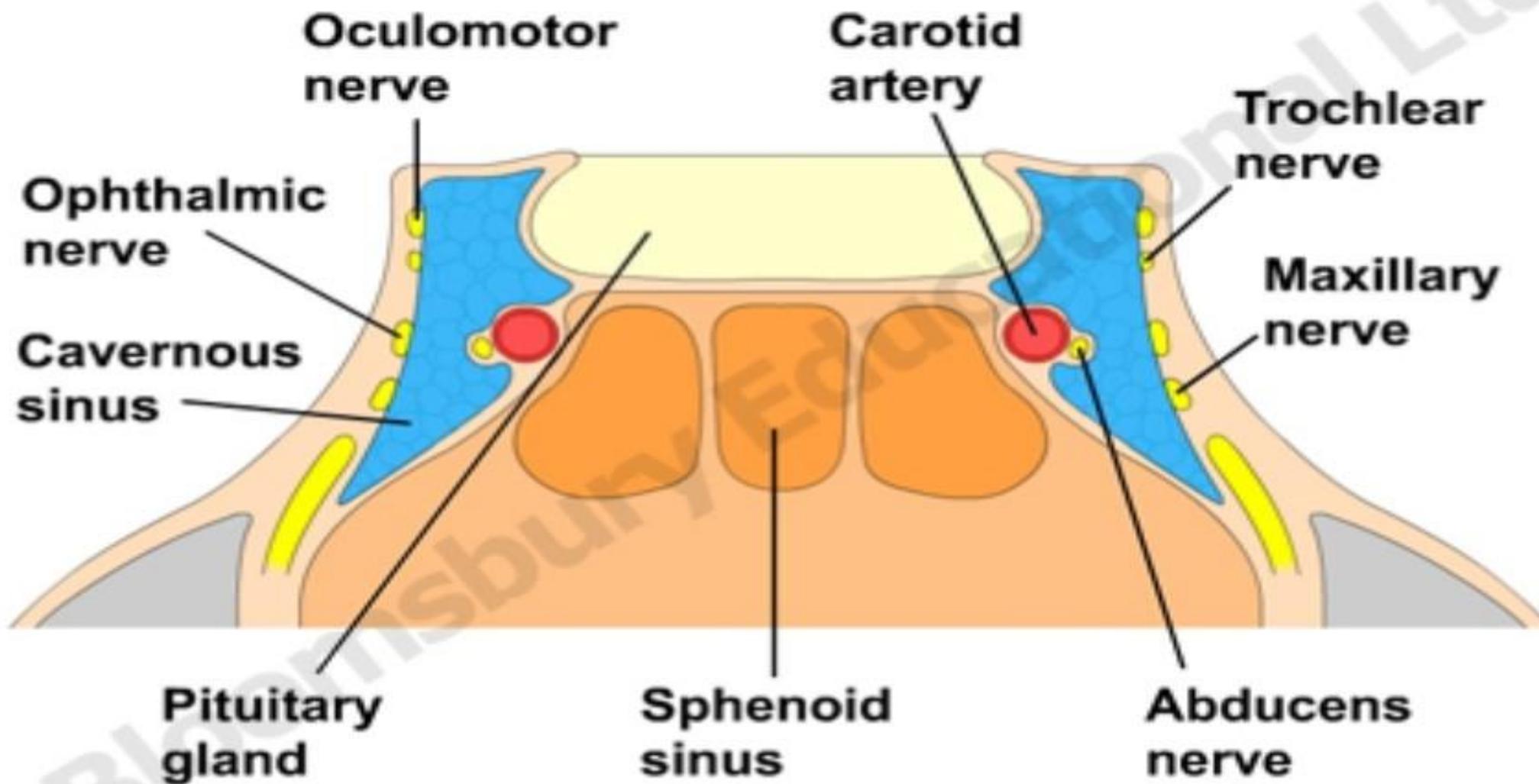


Figure 2.30 Drawing in a sagittal plane showing the brainstem and cerebellum and the major posterior fossa veins.

Cavernous sinuses



Anatomical variations transverse sinus

- 39% hypoplasia of the left sinus
- 31% symmetric
- 20% aplasia of the left sinus
- 6% hypoplasia of the right sinus
- 4% aplasia of the right sinus

JOURNAL MENU ▾

Importance of Anatomical Asymmetries of Transverse Sinuses: An MR Venographic Study

Alper F.^a · Kantarci M.^a · Dane S.^b ·
Gumustekin K.^b · Onbas O.^a · Durur I.^a

Author affiliations

Keywords: > Transverse sinus
> Anatomic asymmetries > MR venography
> Thrombosis



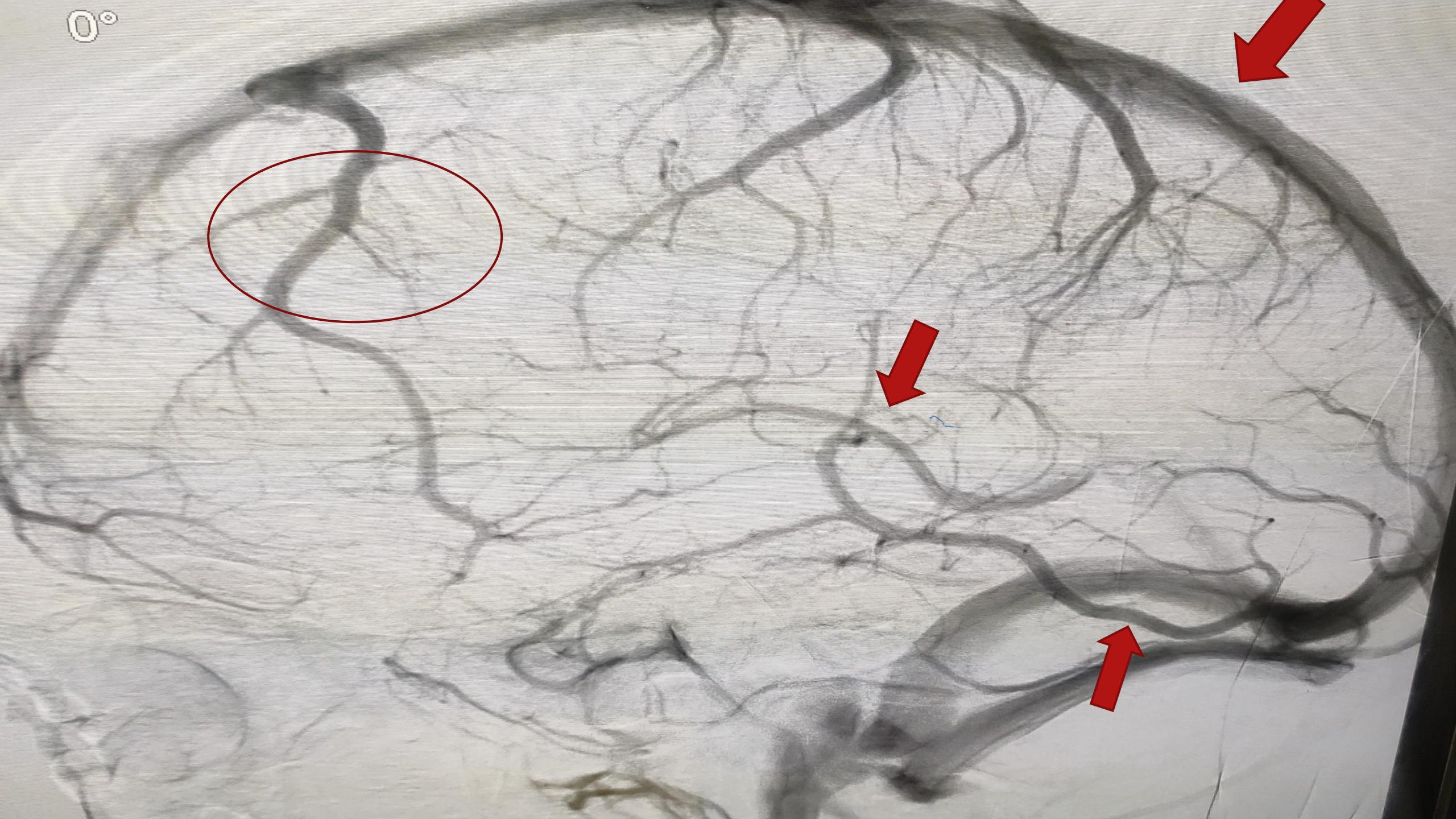
Anatomical variations. Superior sagittal sinus

- ▶ DUPLICATION OF ANTERIOR SSS
- ▶ UNILATERAL HYPOPLASTIC ANTERIOR SSS.
- ▶ COMPLETE OR BILATERAL HYPOPLASTIC ANTERIOR SSS. THE absent portion ...replaced by a pair of LARGE PARASAGITAL SUPERIOR FRONTAL CORTICAL VEINS.

▲ References

1. Drake RL, Vogl AW, Mitchell AWM et-al. Gray's Atlas of Anatomy. Churchill Livingstone. (2008) ISBN:044306721X. [Read it at Google Books](#) - [Find it at Amazon](#)
2. Jr. HRJJ, Burns T, Aminoff MJ et-al. The Netter Collection of Medical Illustrations: Nervous System, Volume 7, Part 1 - Brain. Elsevier Health Sciences. (2013) ISBN:1455733873. [Read it at Google Books](#) - [Find it at Amazon](#)
3. D. San Millán Ruiz, J.H.D. Fasel, P. Gailloud. Unilateral Hypoplasia of the Rostral End of the Superior Sagittal Sinus. (2012) American Journal of Neuroradiology. 33 (2): 286. doi:10.3174/ajnr.A2748 - Pubmed

0°



179°
0°



9
22-14

4, F, 27Y

1
M
1 / 1

Skyra 320
MR E11 *3/
HFS ST
+LPH 3/2
3:0
→ 500

0.0

ND/NORM

1

t70 / 60

ELA 27Y F

994, F, 27Y

1

with contrast

AFR

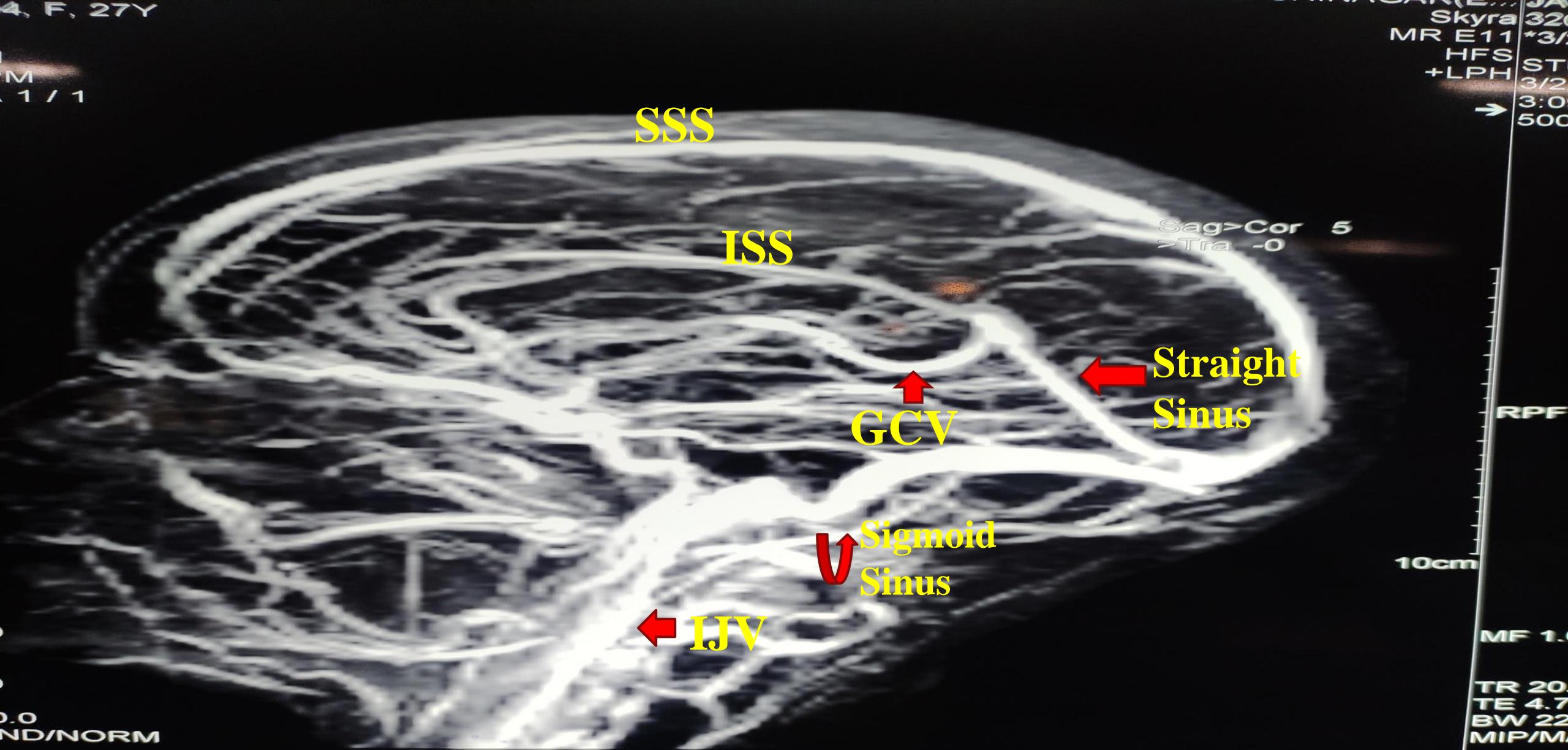
GOVT MEDICAL COLLEGE SRINAGAR(E...)

JAMEE

Skyra 32079

MR E11 *3/22/19

HFS STU



AFR

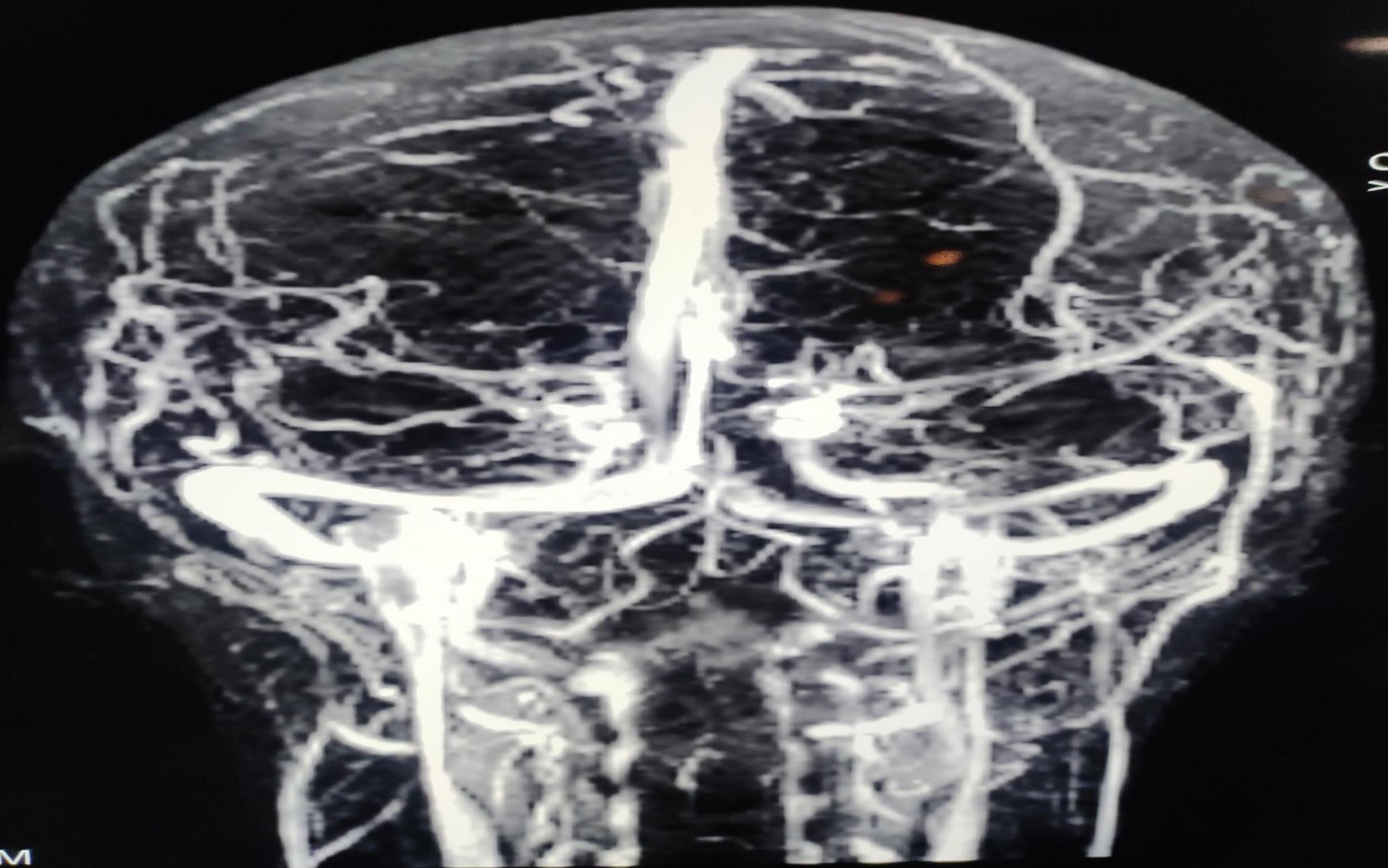
GOVT MEDICAL COLLEGE SRINAGAR(E...)

JAMEE

Skyra 32079

MR E11 *3/22/19

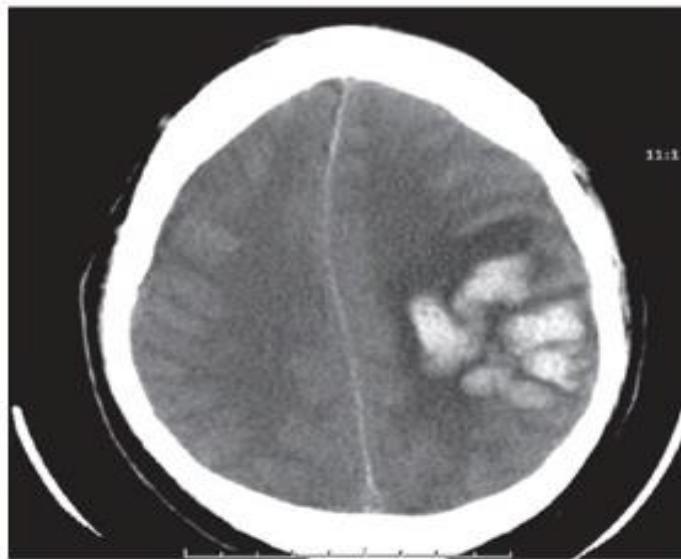
HFS STU



Cor>Tra
>Sag -5

NORM

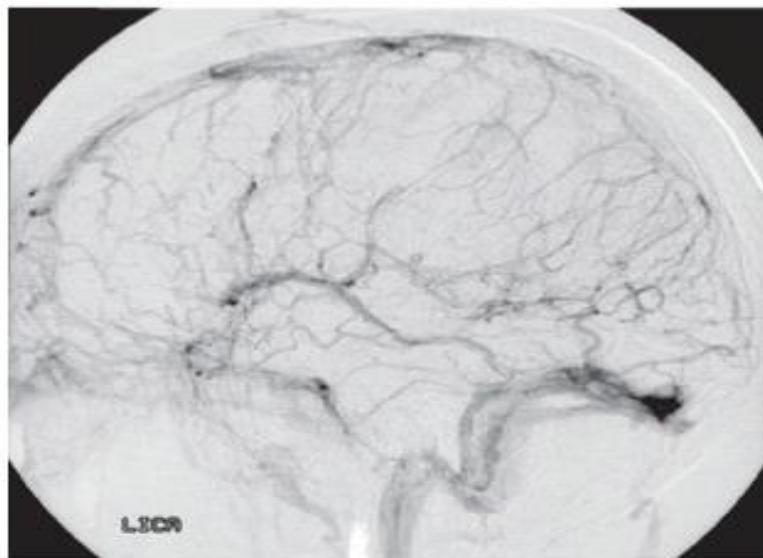
Cor>Tra(-19.7)>S



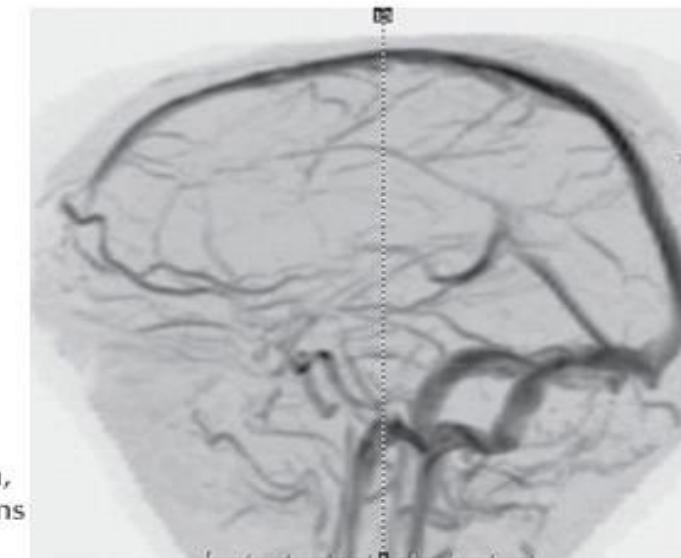
A. CT 2 days after admission showing left posterior frontal parietal patchy hemorrhage within the ischemic region.



B. Magnetic resonance venography (MRV) demonstrates absence of flow in posterior sagittal sinus and some cortical veins.



C. Digital angiogram, venous phase confirms the MRV findings.



D. Normal MRV for comparison.

Figure 56-6 Sagittal Sinus Thrombosis.



THANK YOU