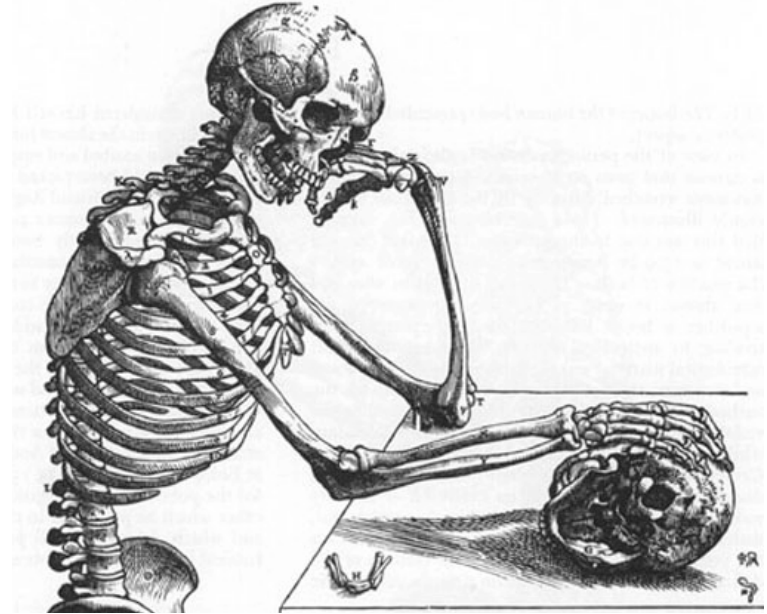


G17B: Brain and Base of Skull

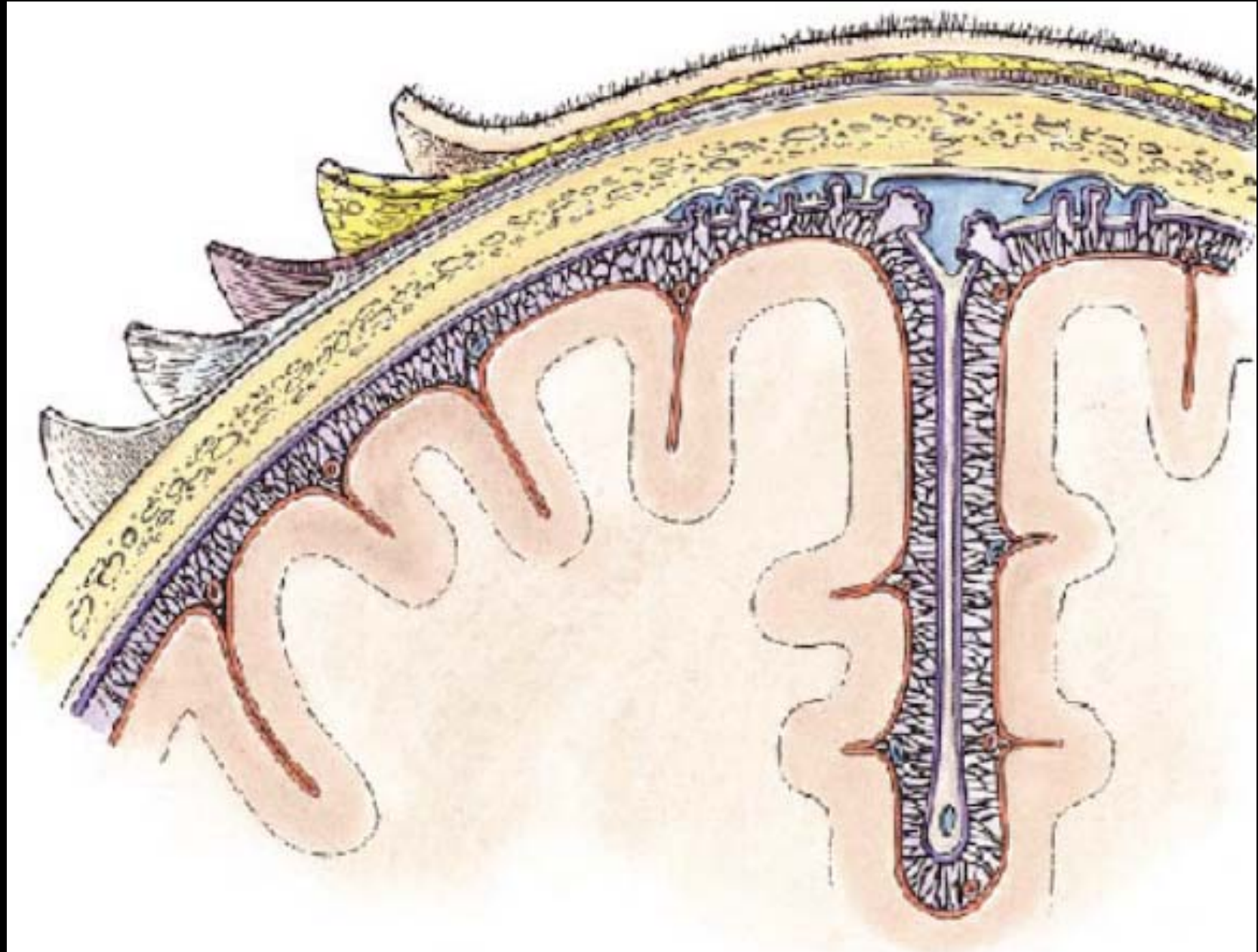


GL17:

A - Clinical Apps (HSEB 1700)

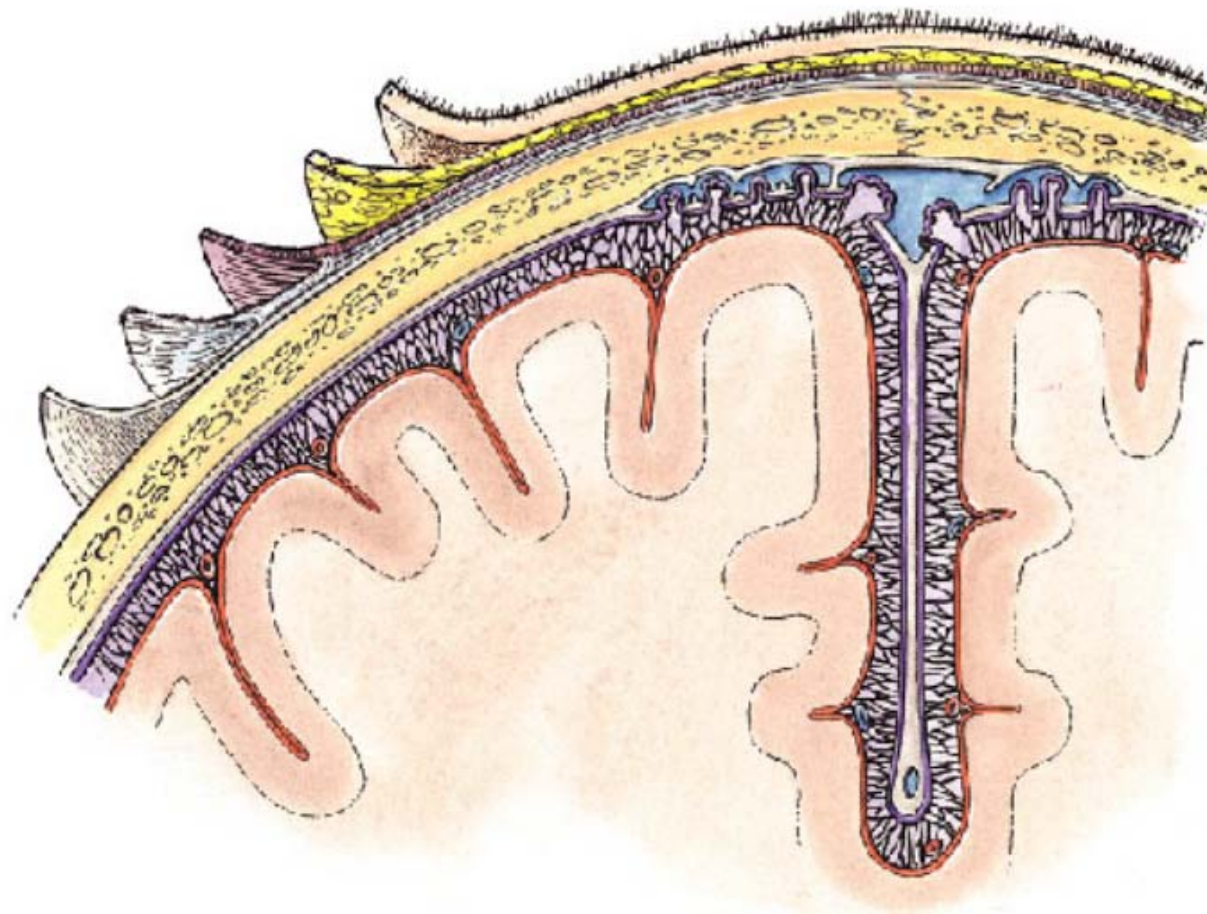
B - Scalp, Calvarium, Brain (Cadaver)

G17B: Objectives



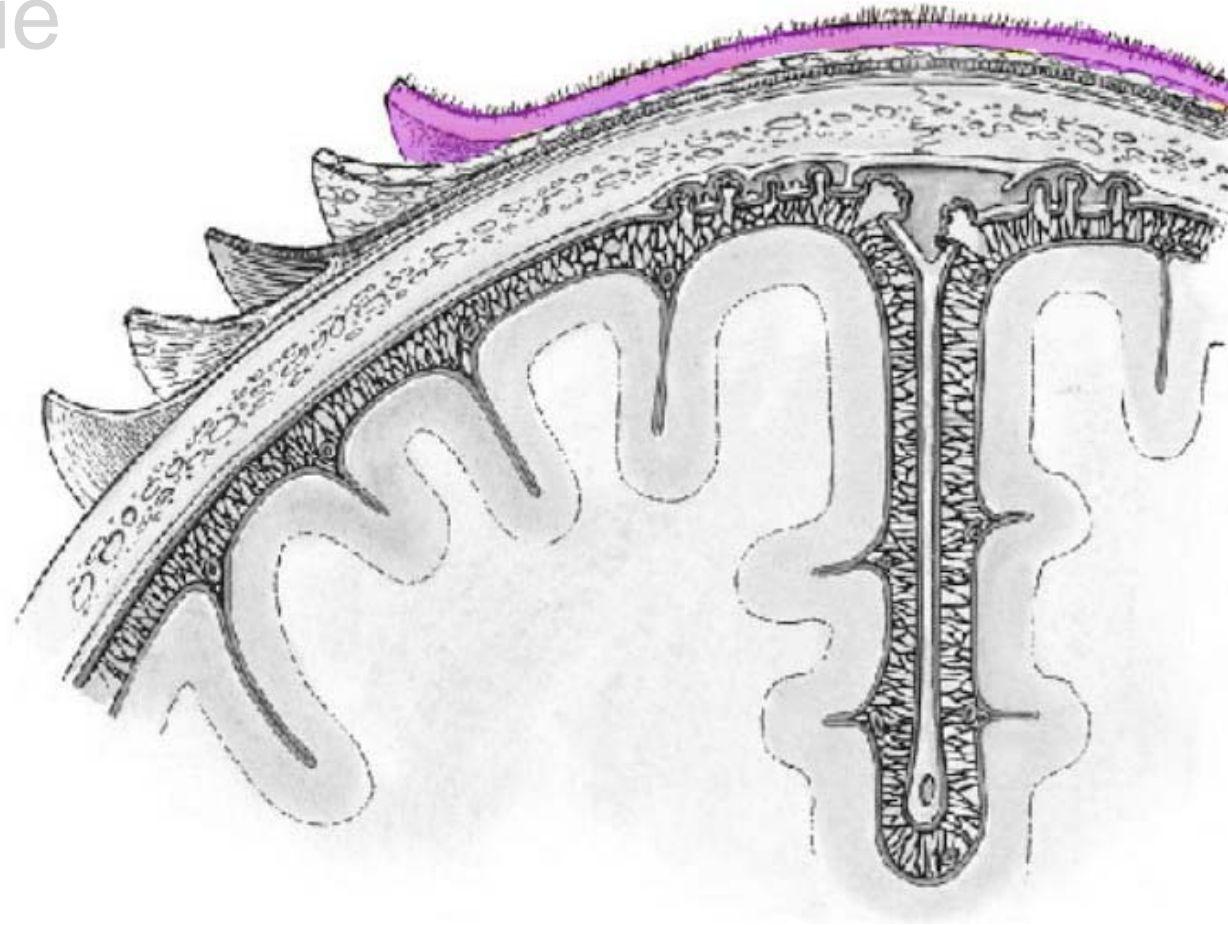
1) Scalp

- Skin
- Connective tissue
- Aponeurosis
- Loose CT
- Pariosteum



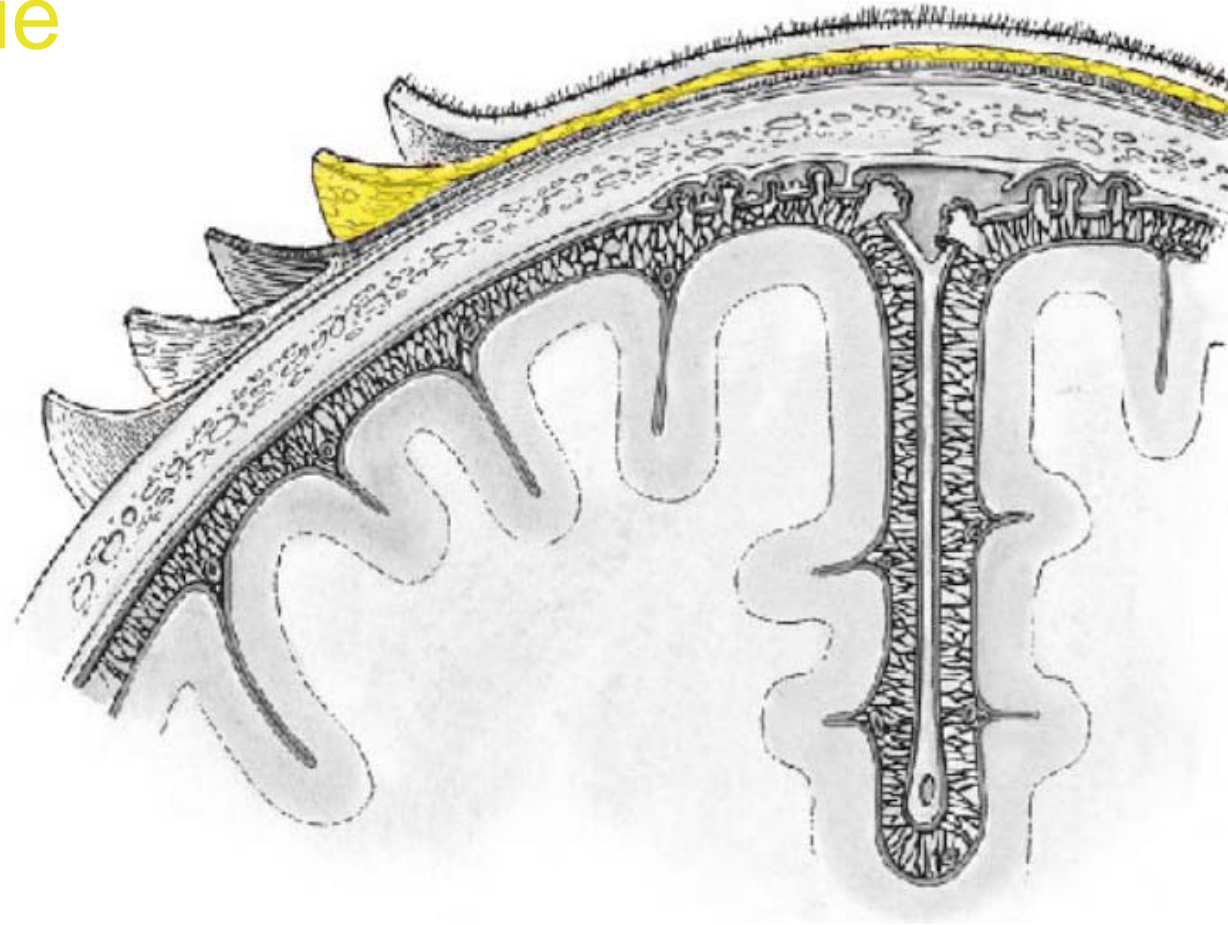
1) Scalp

- Skin
- Connective tissue
- Aponeurosis
- Loose CT
- Perosteum



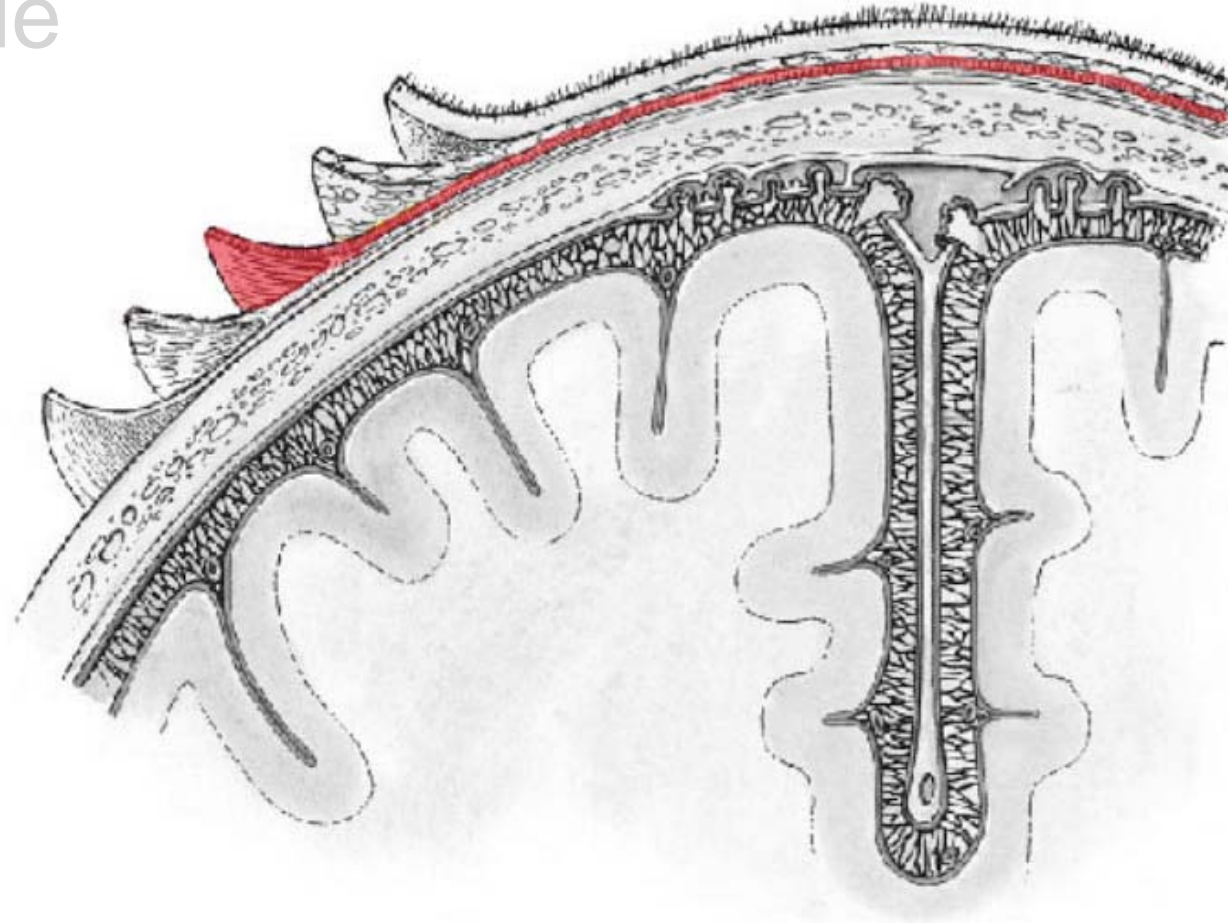
1) Scalp

- Skin
- Connective tissue
- Aponeurosis
- Loose CT
- Perosteum



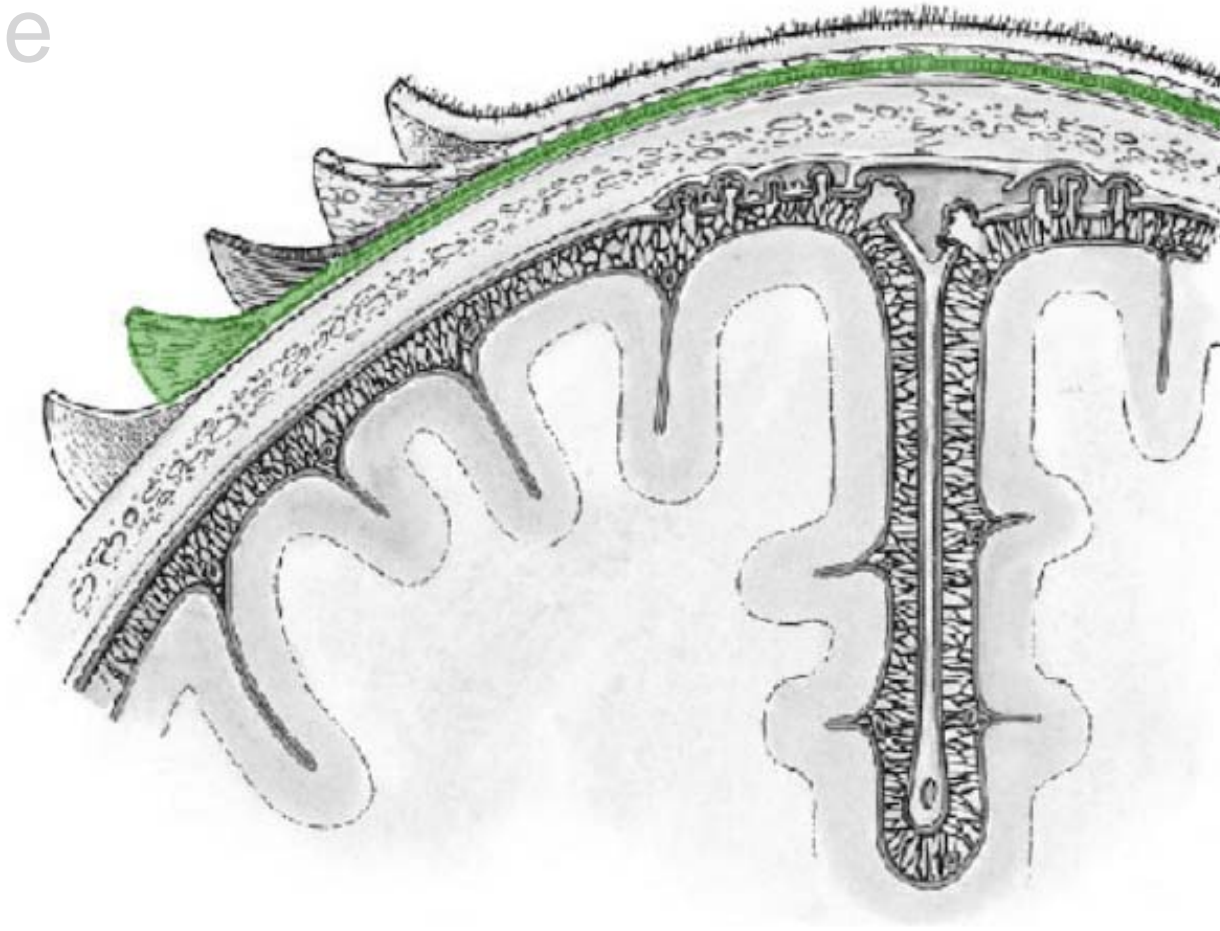
1) Scalp

- Skin
- Connective tissue
- **Aponeurosis**
- Loose CT
- Pariosteum



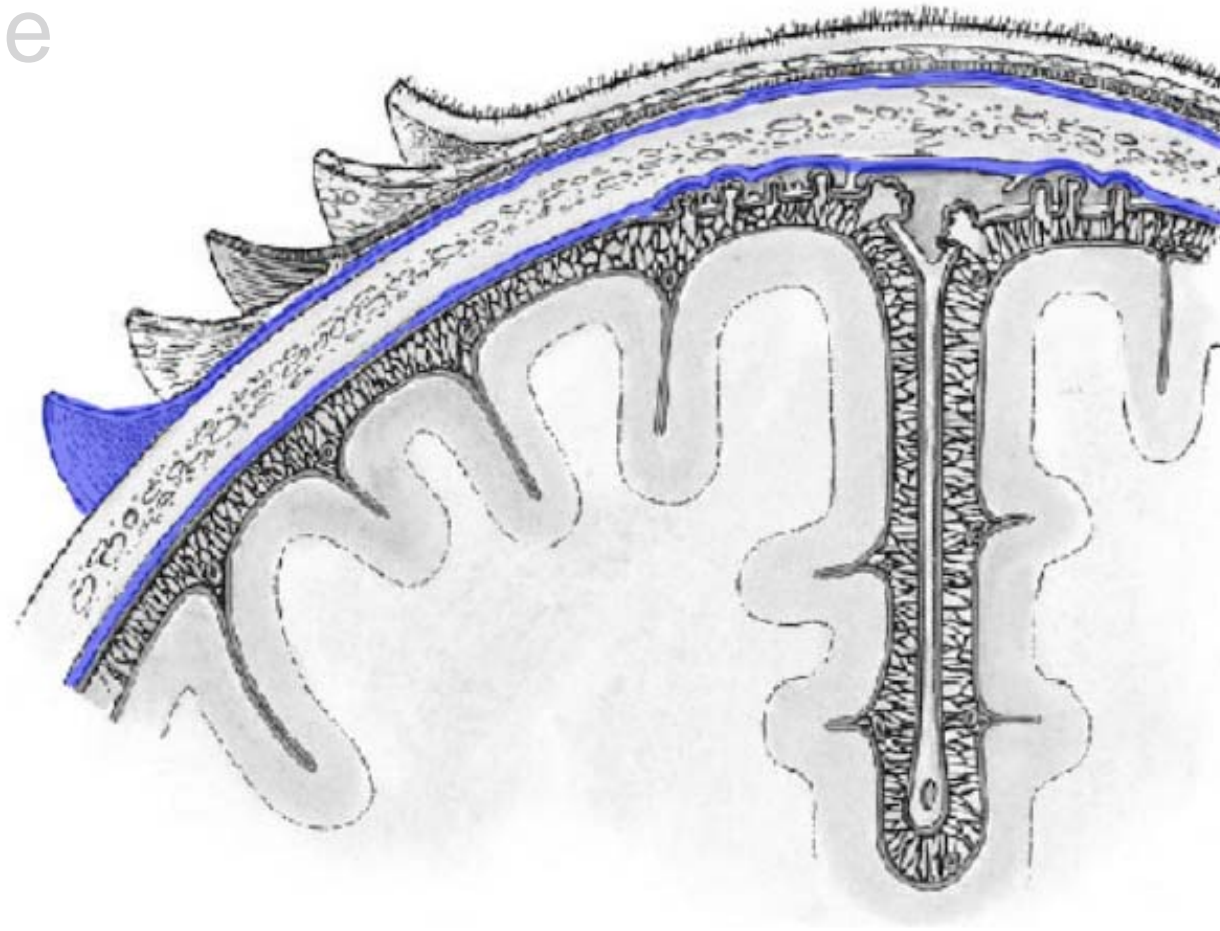
1) Scalp

- Skin
- Connective tissue
- Aponeurosis
- Loose CT
- Pariosteum



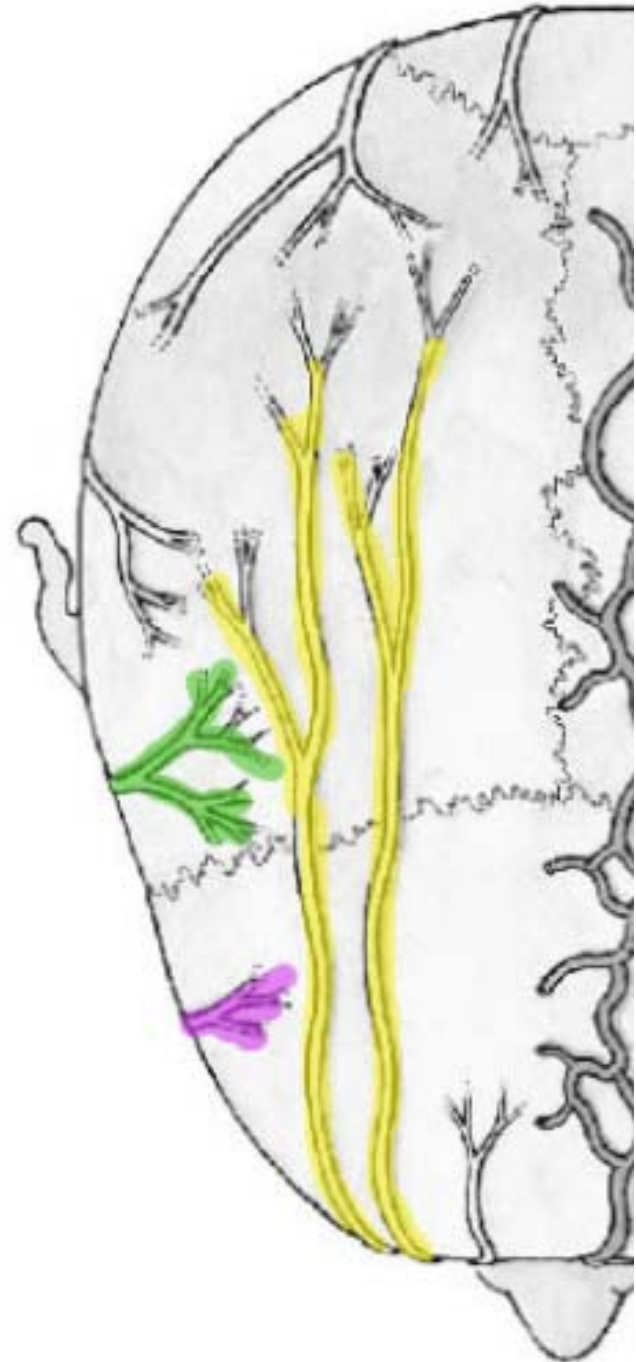
1) Scalp

- Skin
- Connective tissue
- Aponeurosis
- Loose CT
- Perosteium



1) Scalp - Cutaneous innervation

- **CN V-1**
- **CN V-2**
- **CN V-3**
- Lesser occipital n.
- Greater occipital n.
- Least occipital n.

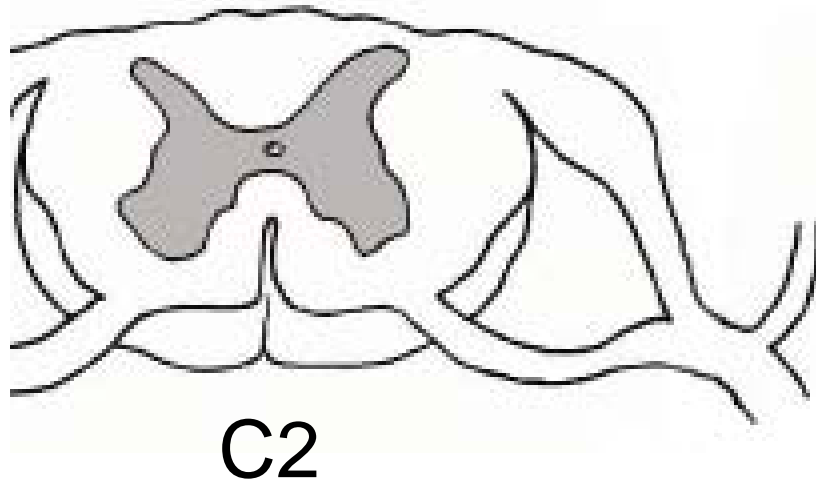


1) Scalp - Cutaneous innervation

- CN V-1
- CN V-2
- CN V-3
- Least occipital n. (C3)
- Greater occipital n. (C2)
- Lesser occipital n. (C2)



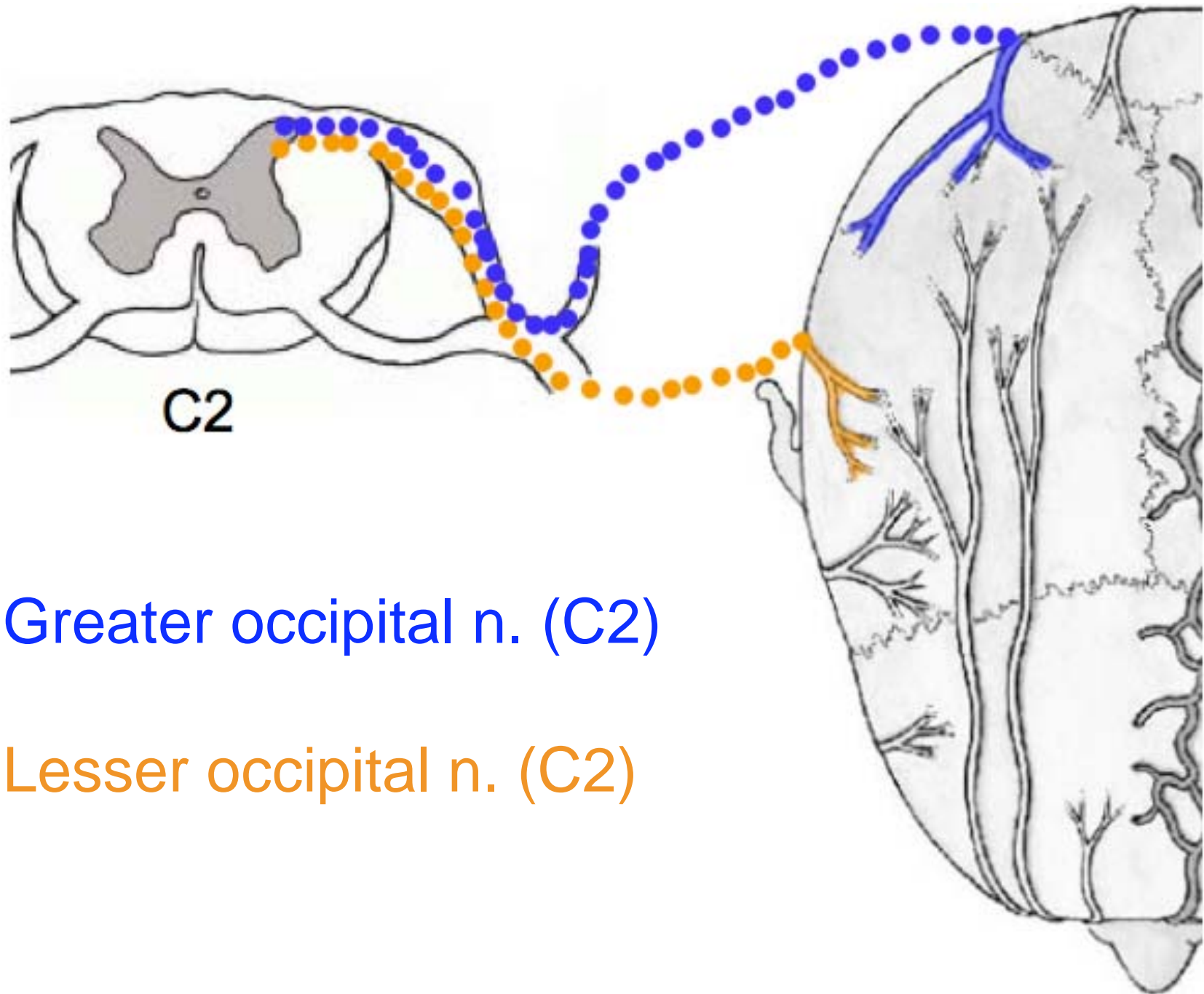
1) Scalp - Cutaneous innervation



- Greater occipital n. (C2)
- Lesser occipital n. (C2)

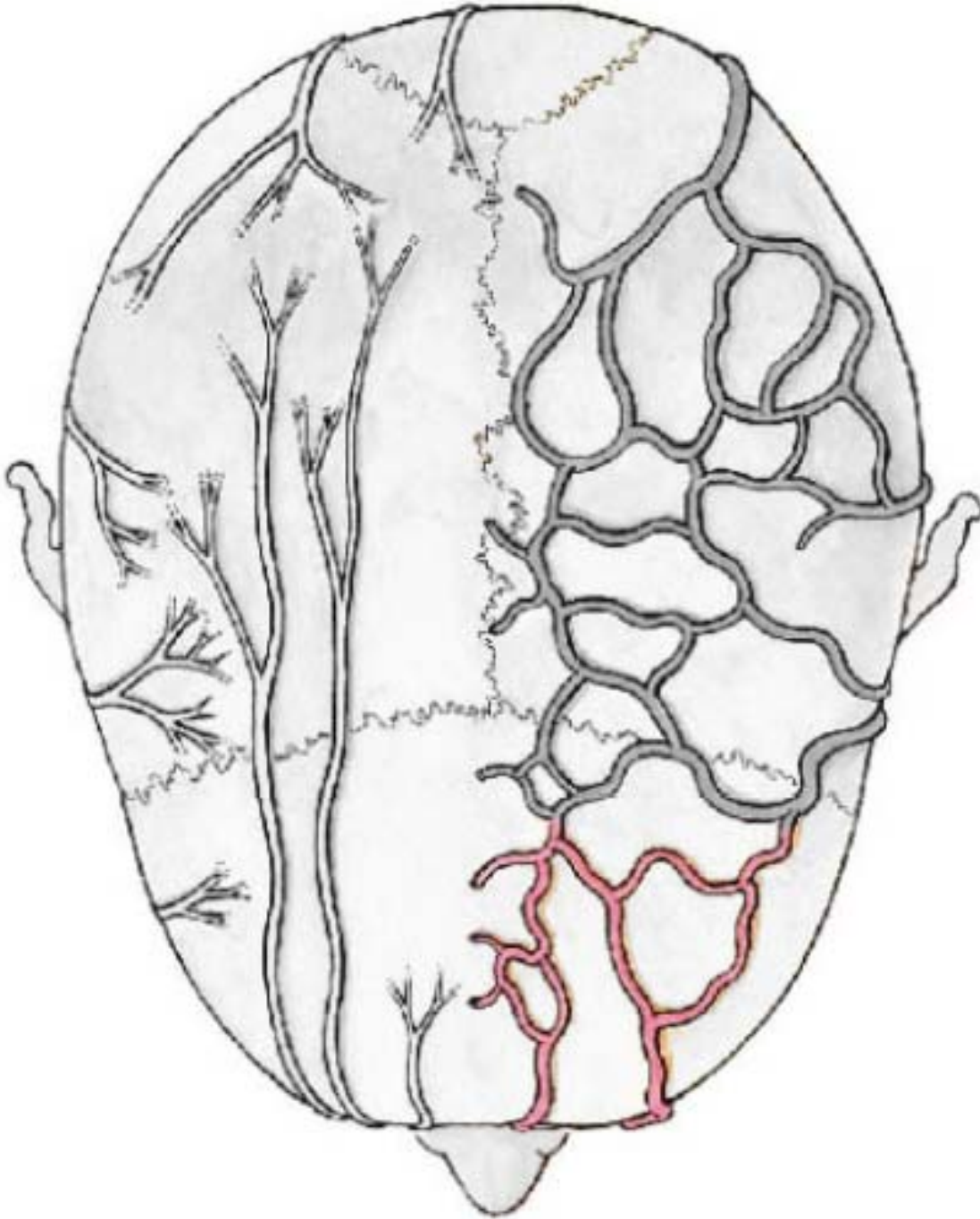


1) Scalp - Cutaneous innervation



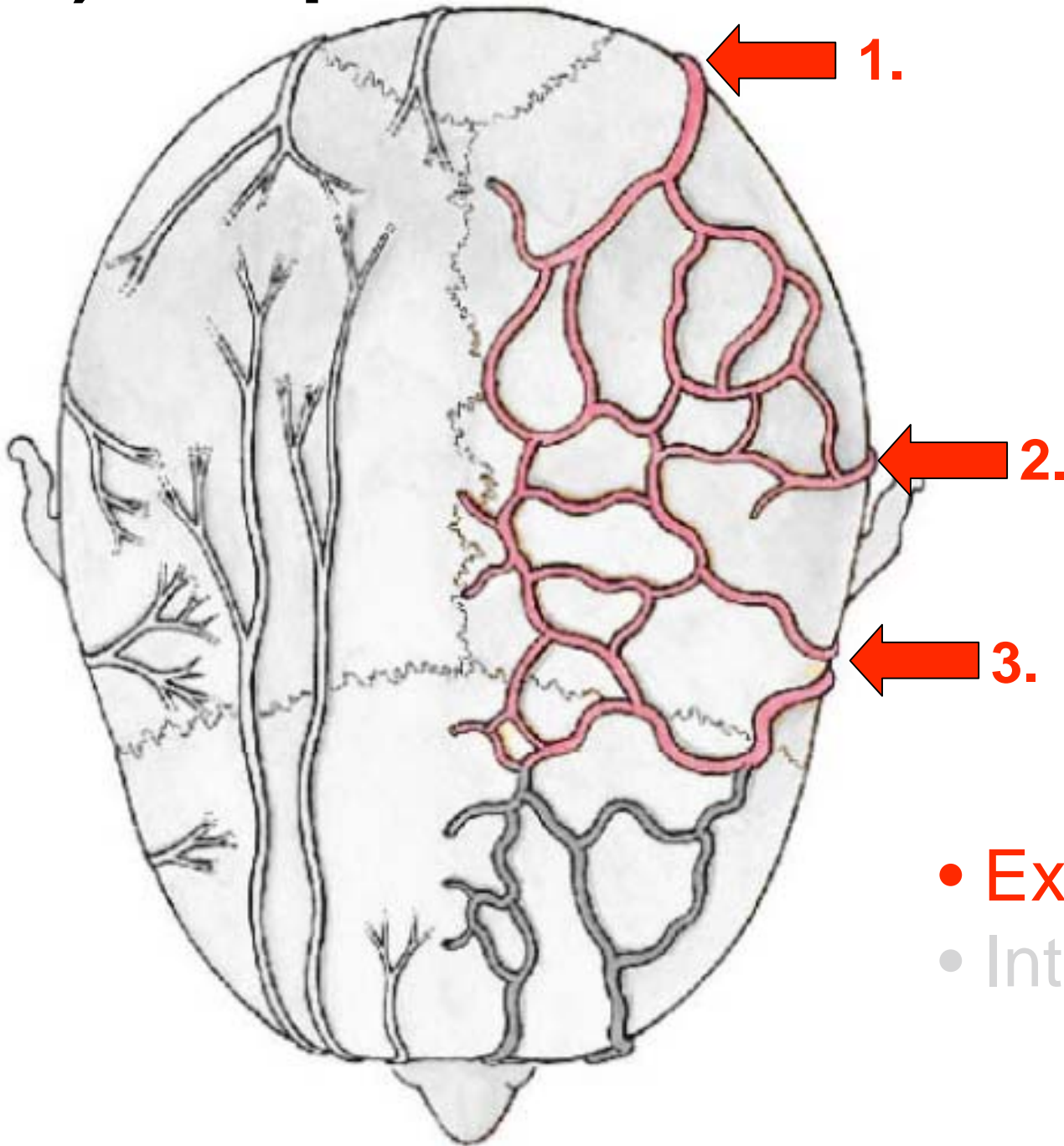
- Greater occipital n. (C2)
- Lesser occipital n. (C2)

1) Scalp - Arterial vascularization



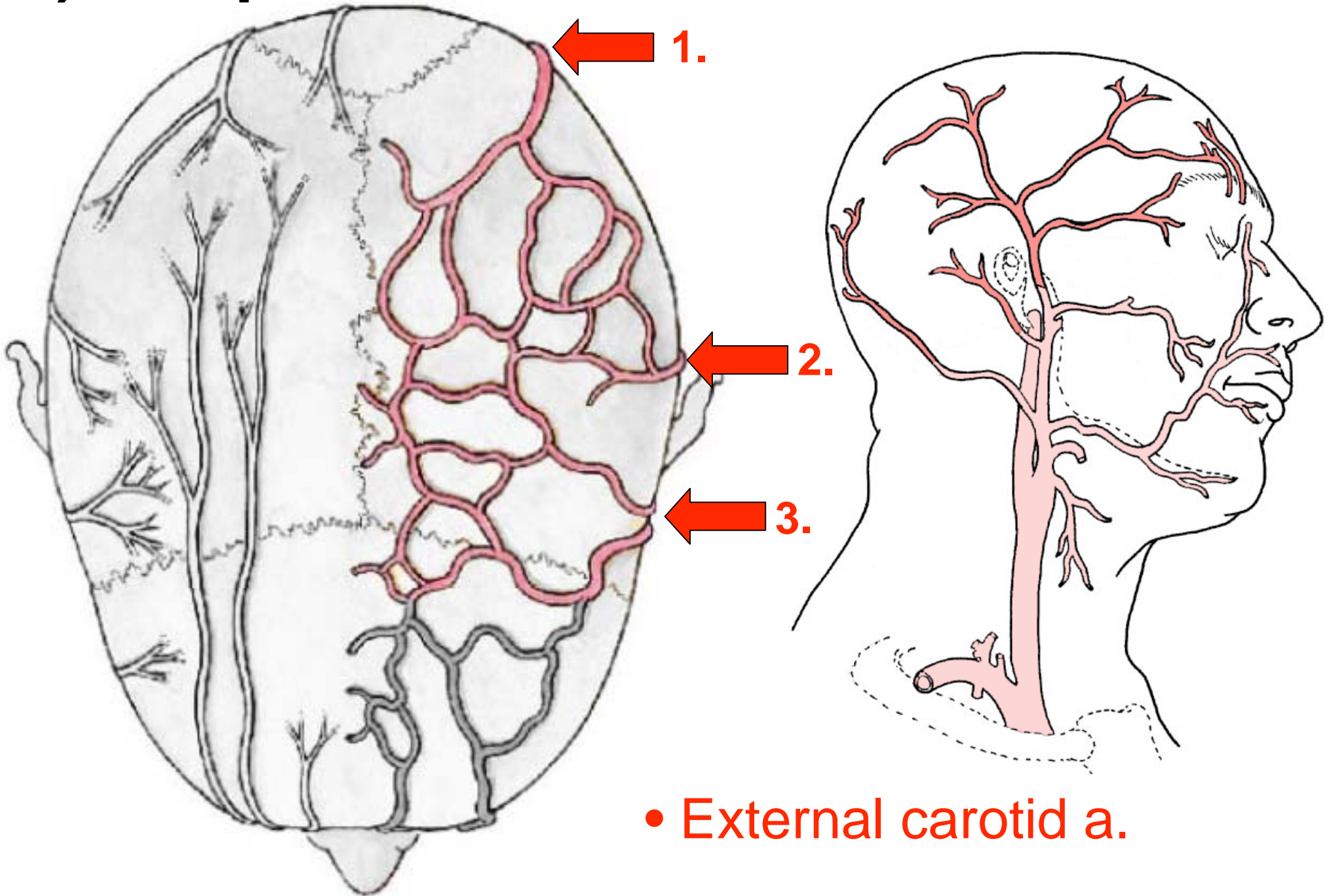
- External carotid a.
- **Internal carotid a.**

1) Scalp - Arterial vascularization

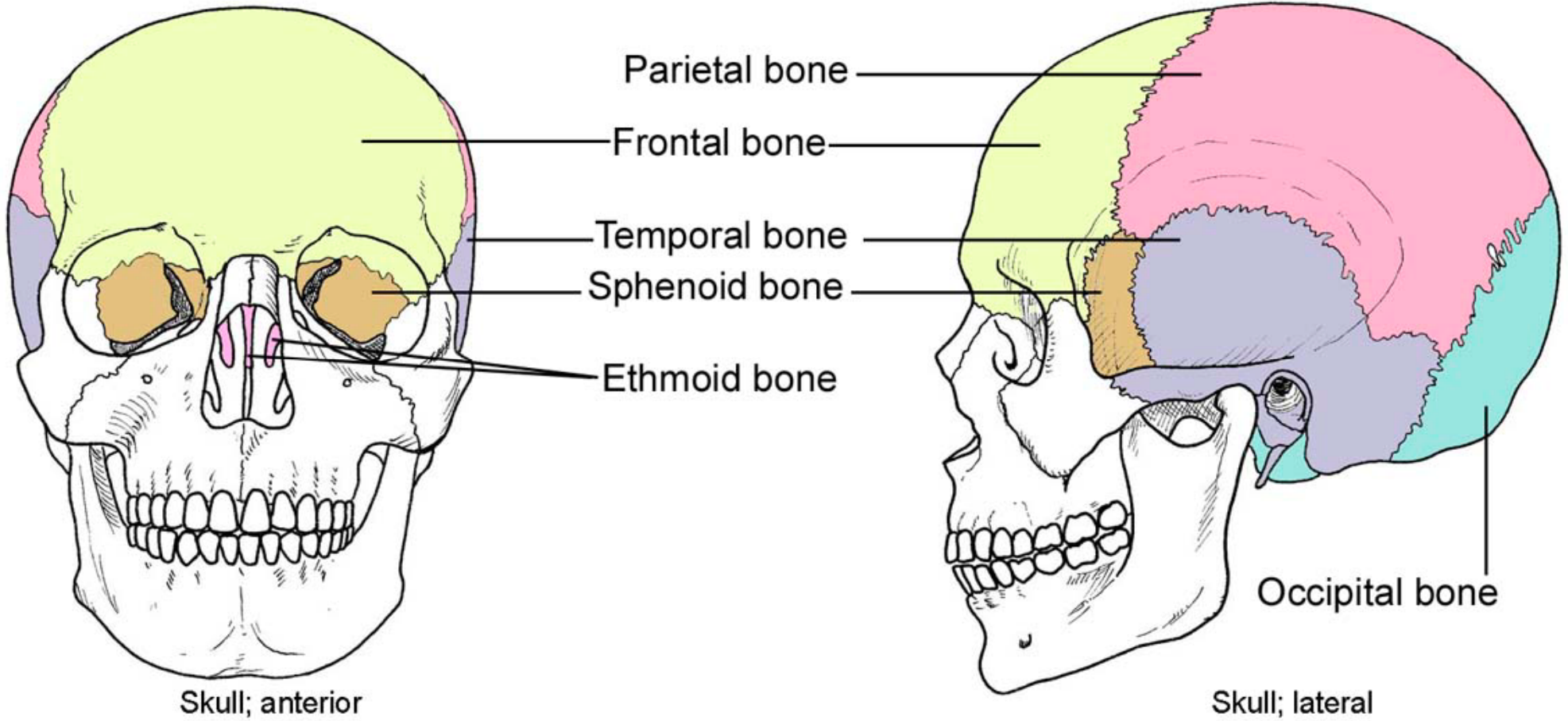


- External carotid a.
- Internal carotid a.

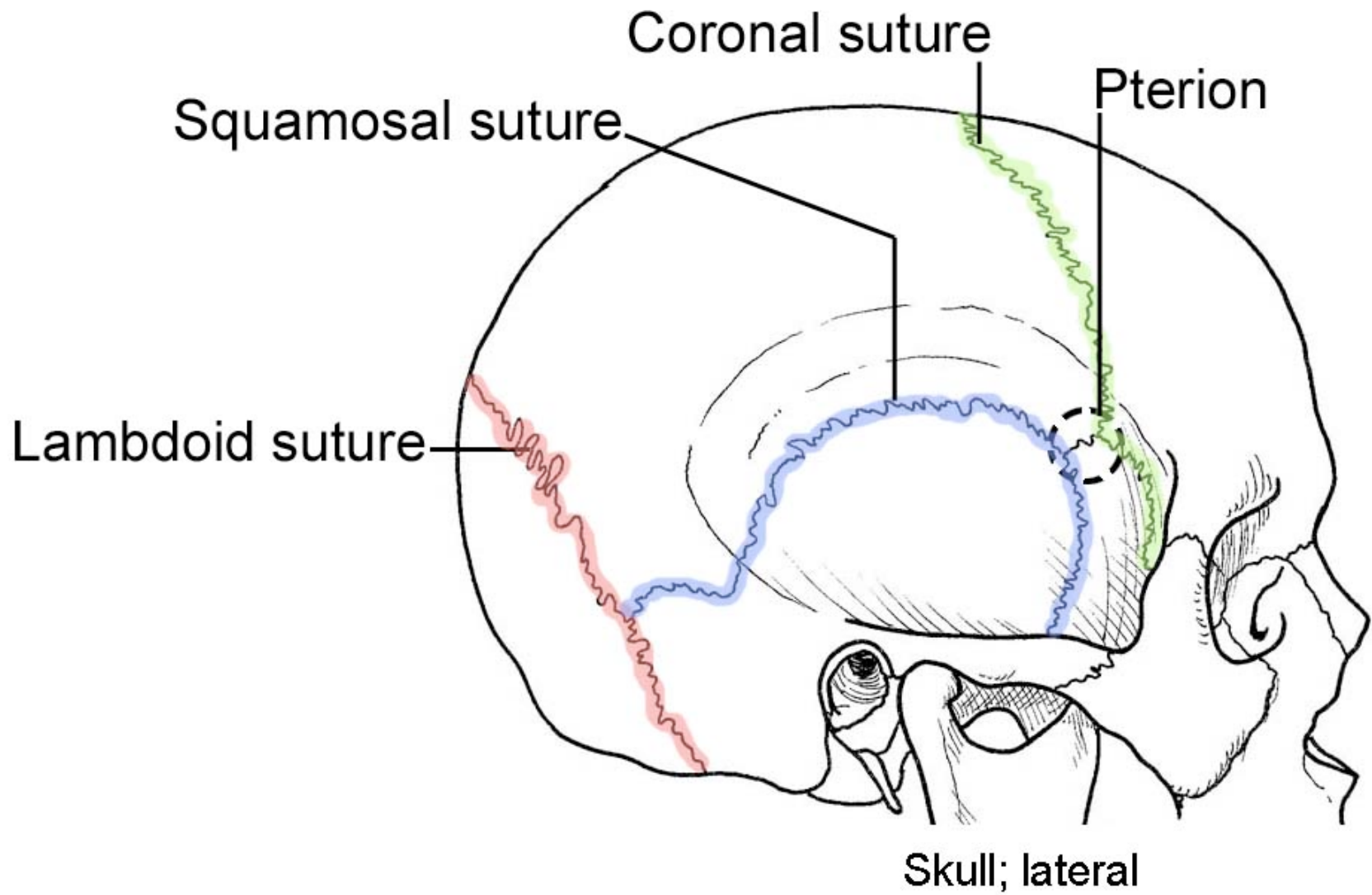
1) Scalp - Arterial vascularization



2) Skull



2) Skull

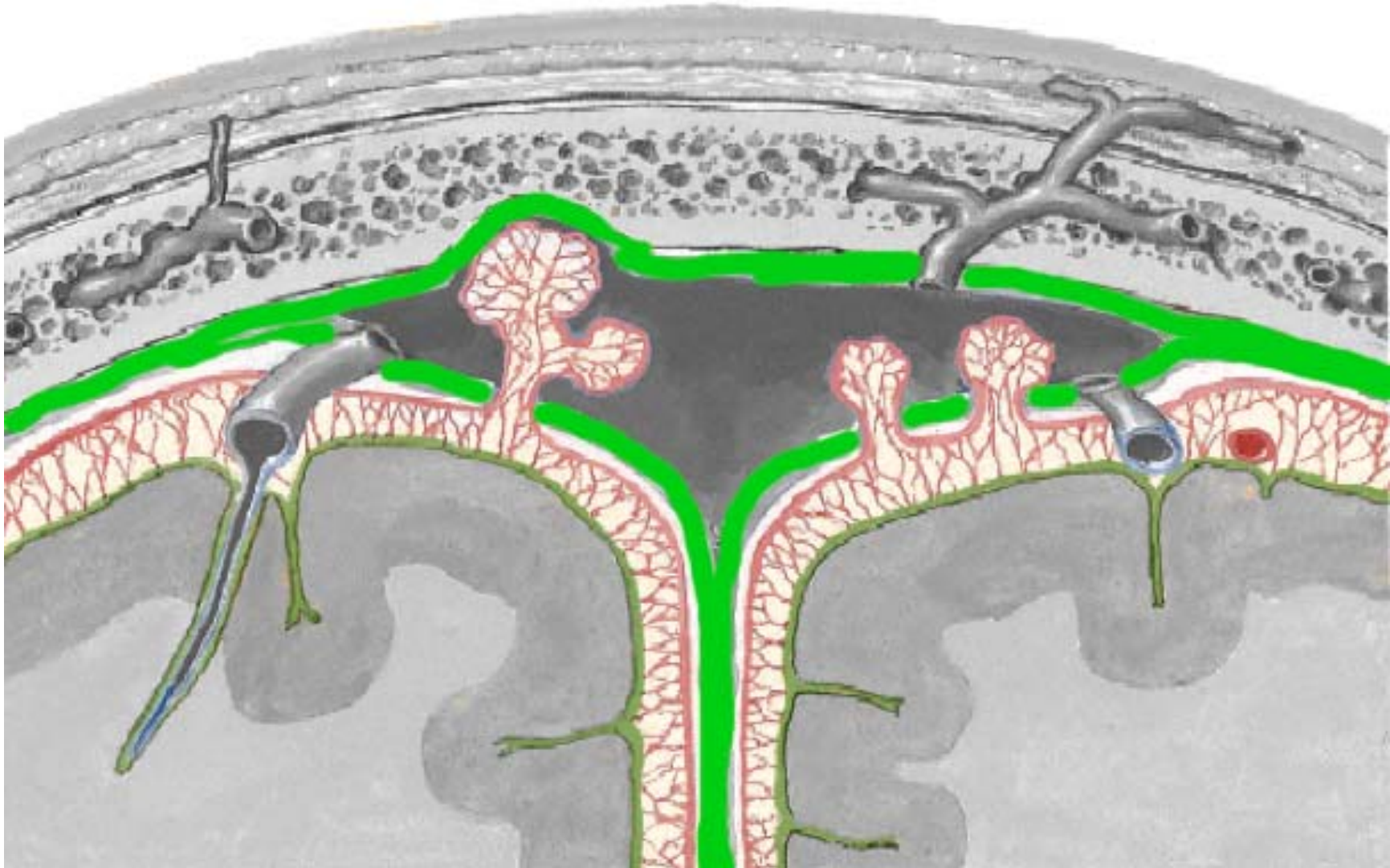


3) Cranial Meninges

Dura mater

Arachnoid mater

Pia mater



3) Cranial Meninges

Dura mater

Arachnoid mater

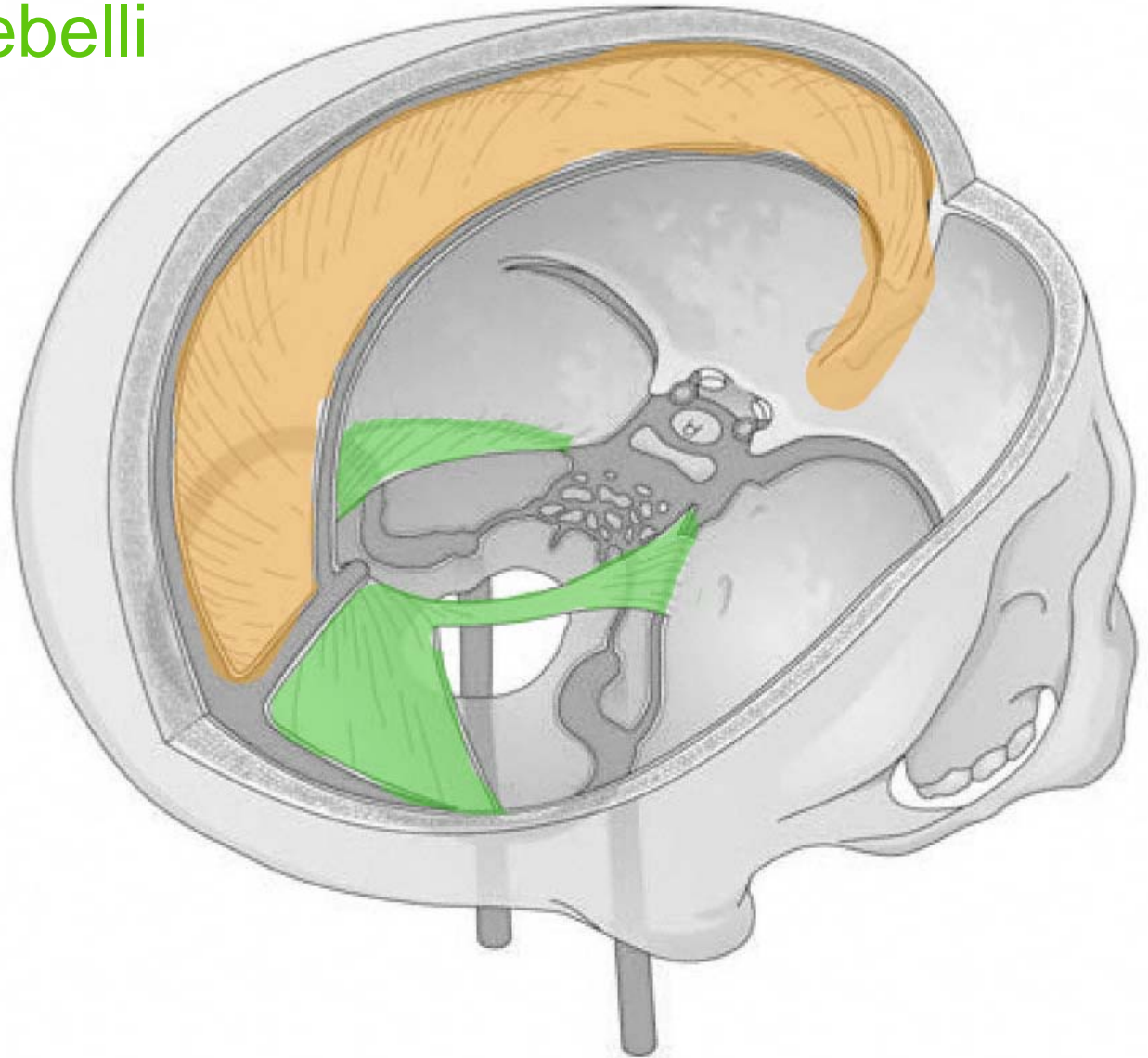
Pia mater



3) Cranial Meninges

Dura mater

- Falx cerebri
- Tentorium cerebelli
- Falx cerebelli



3) Cranial Meninges

Dura mater

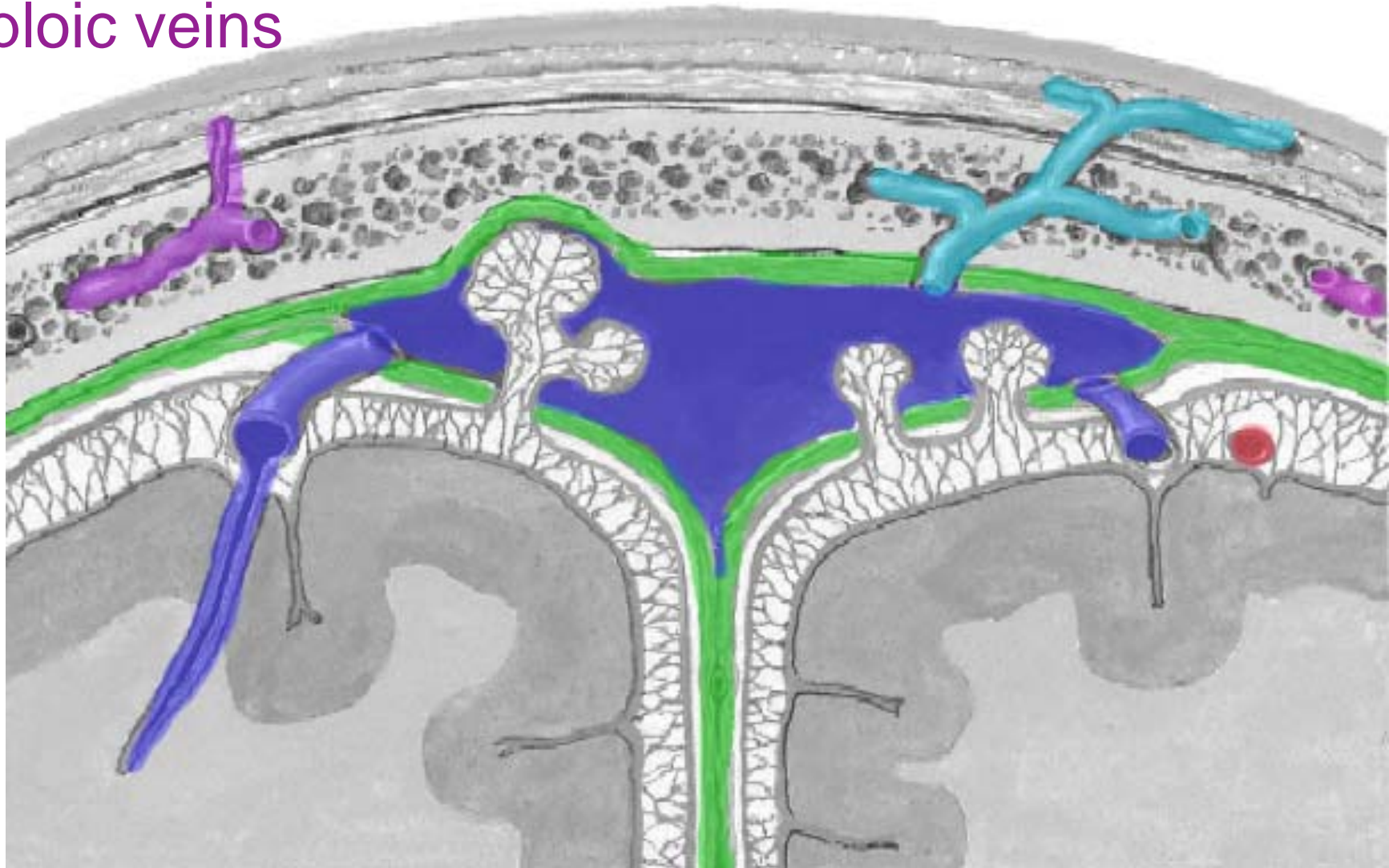
- Dural venous sinus



3) Cranial Meninges

Dura mater

- Cerebral veins
- Emissary veins
- Diploic veins



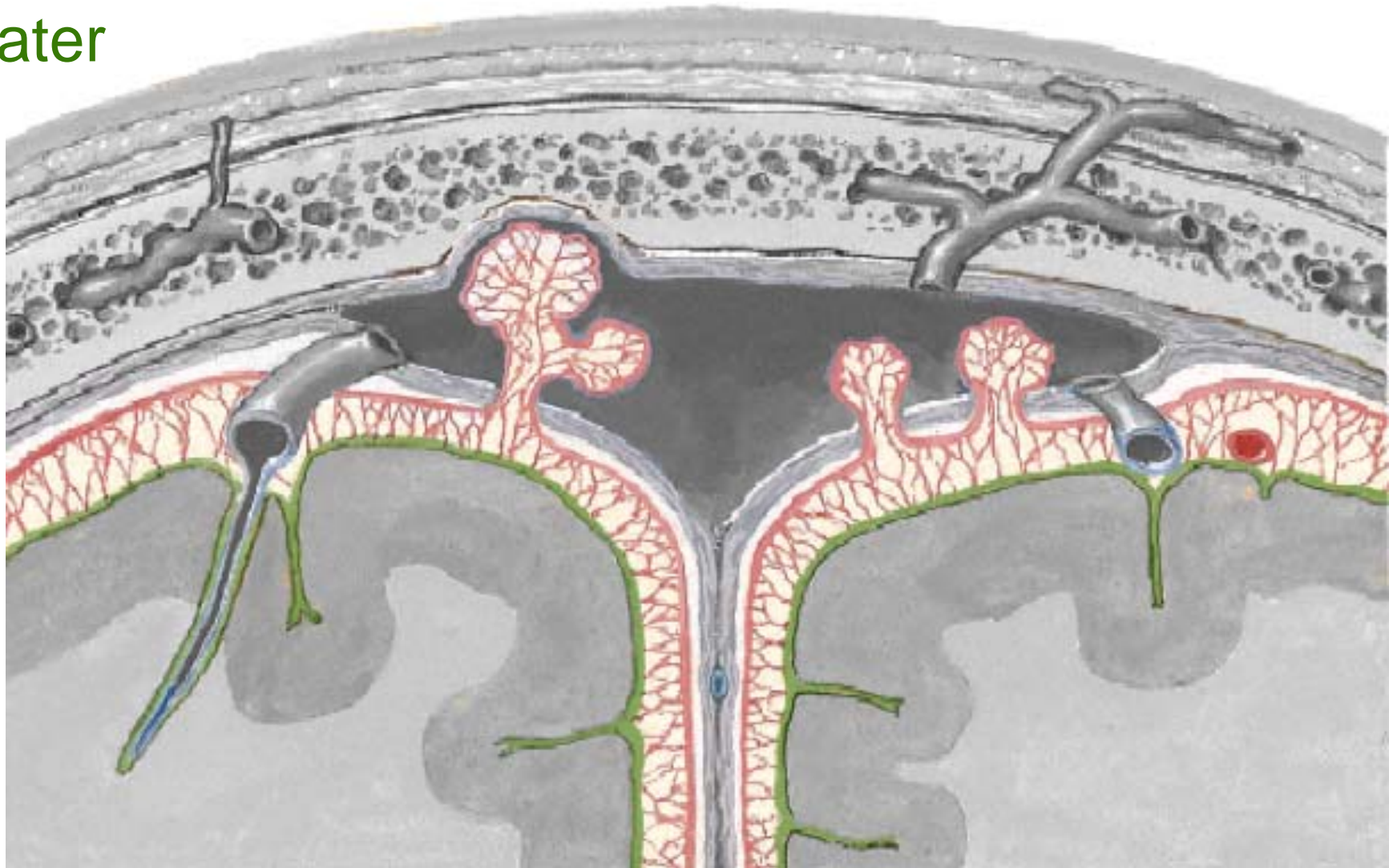
3) Cranial Meninges

Arachnoid mater

Arachnoid granulations (villi)

Subarachnoid space

Pia mater



3) Cranial Meninges

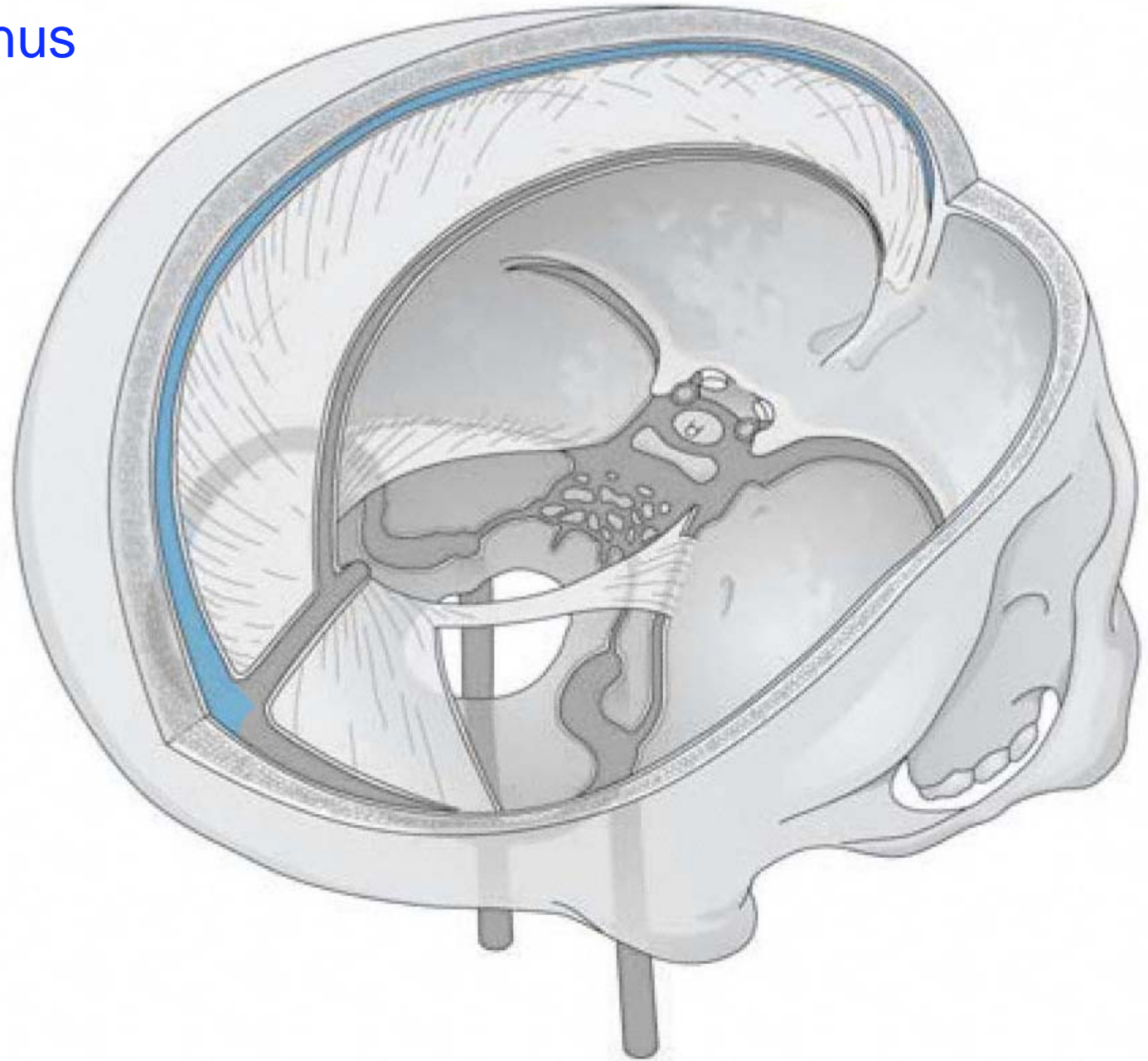
Dura mater

- Dural venous sinus



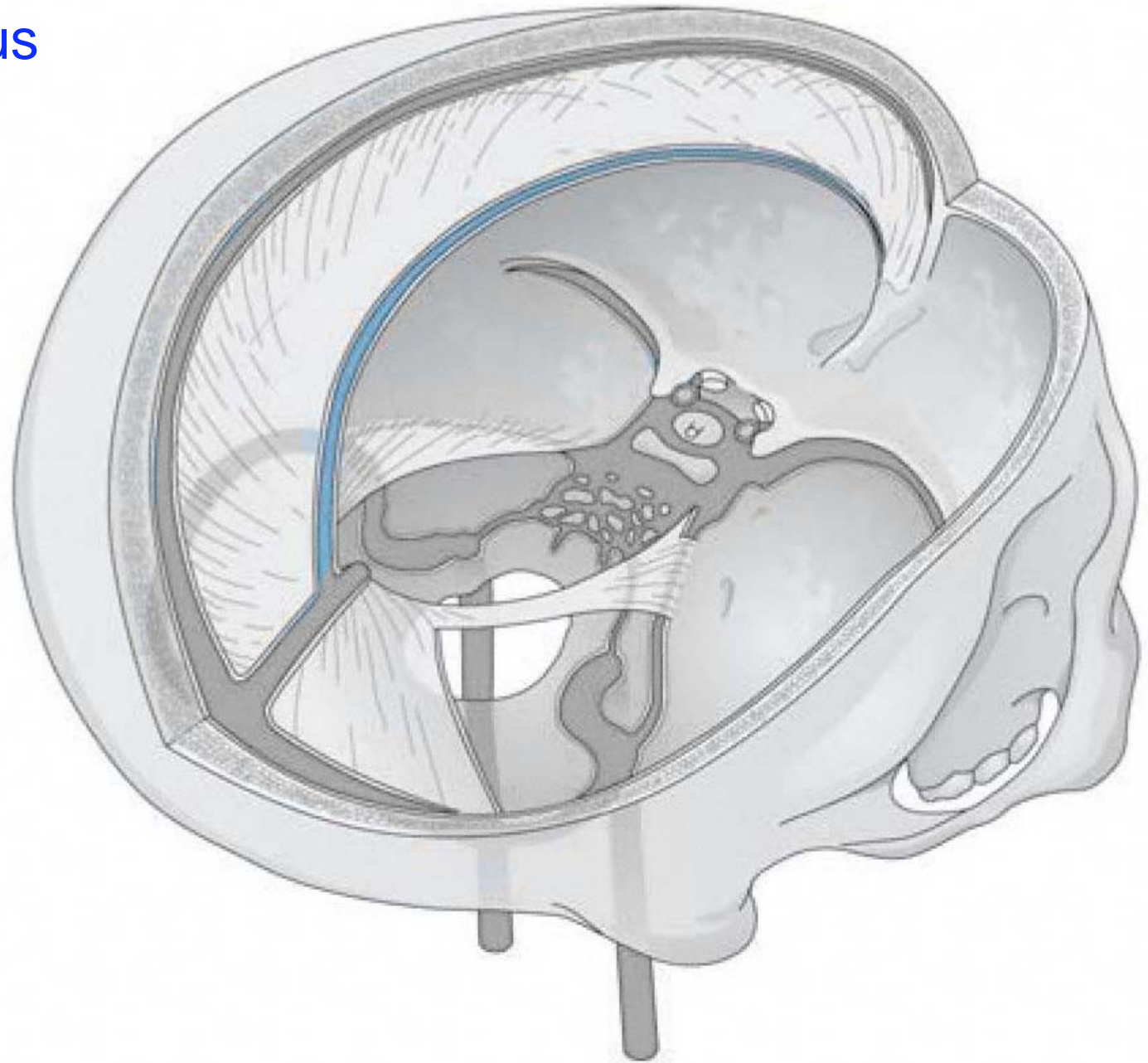
3) Cranial Meninges - Dural ven. sinuses

Superior sagittal sinus



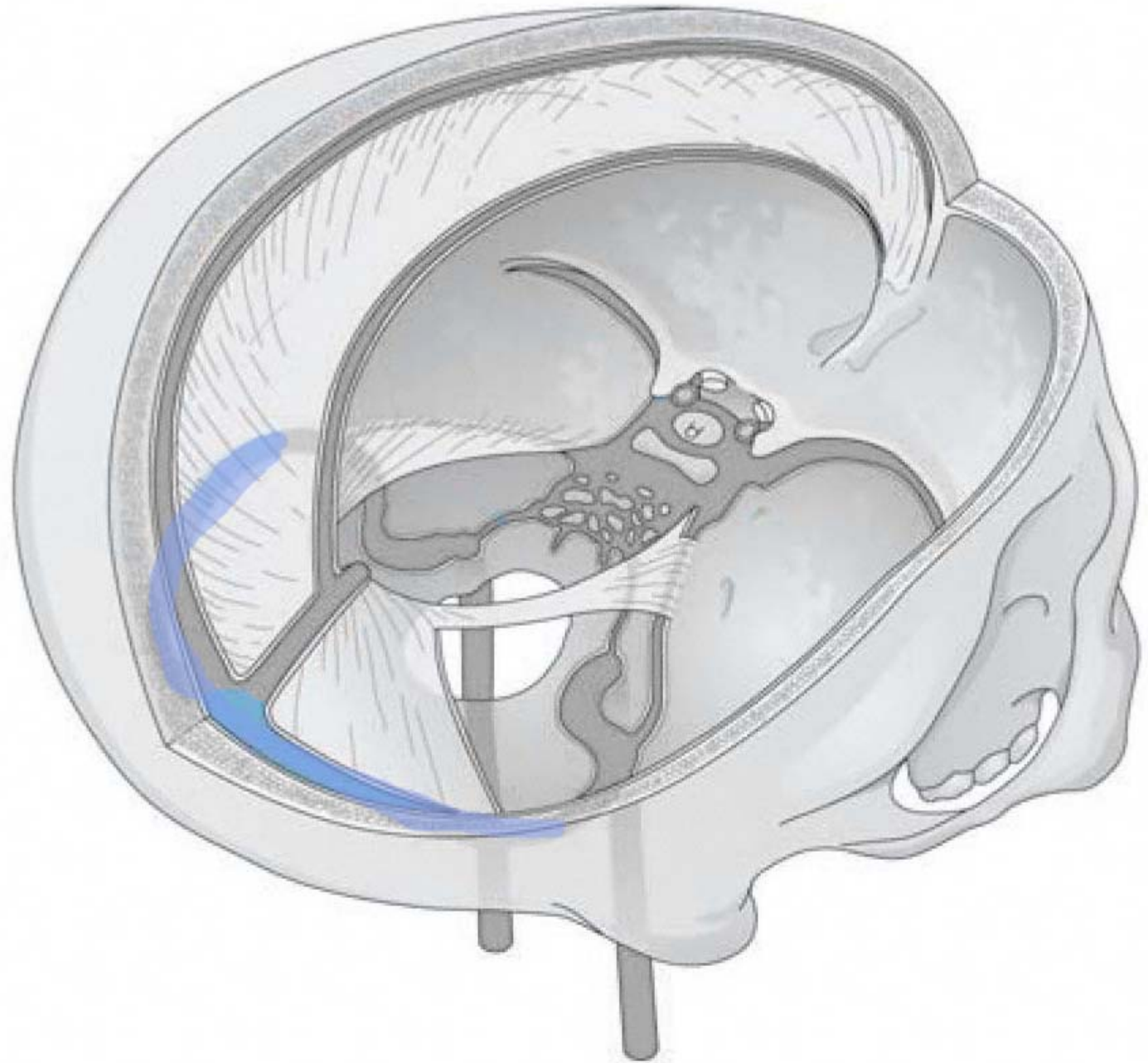
3) Cranial Meninges - Dural ven. sinuses

Inferior sagittal sinus



3) Cranial Meninges - Dural ven. sinuses

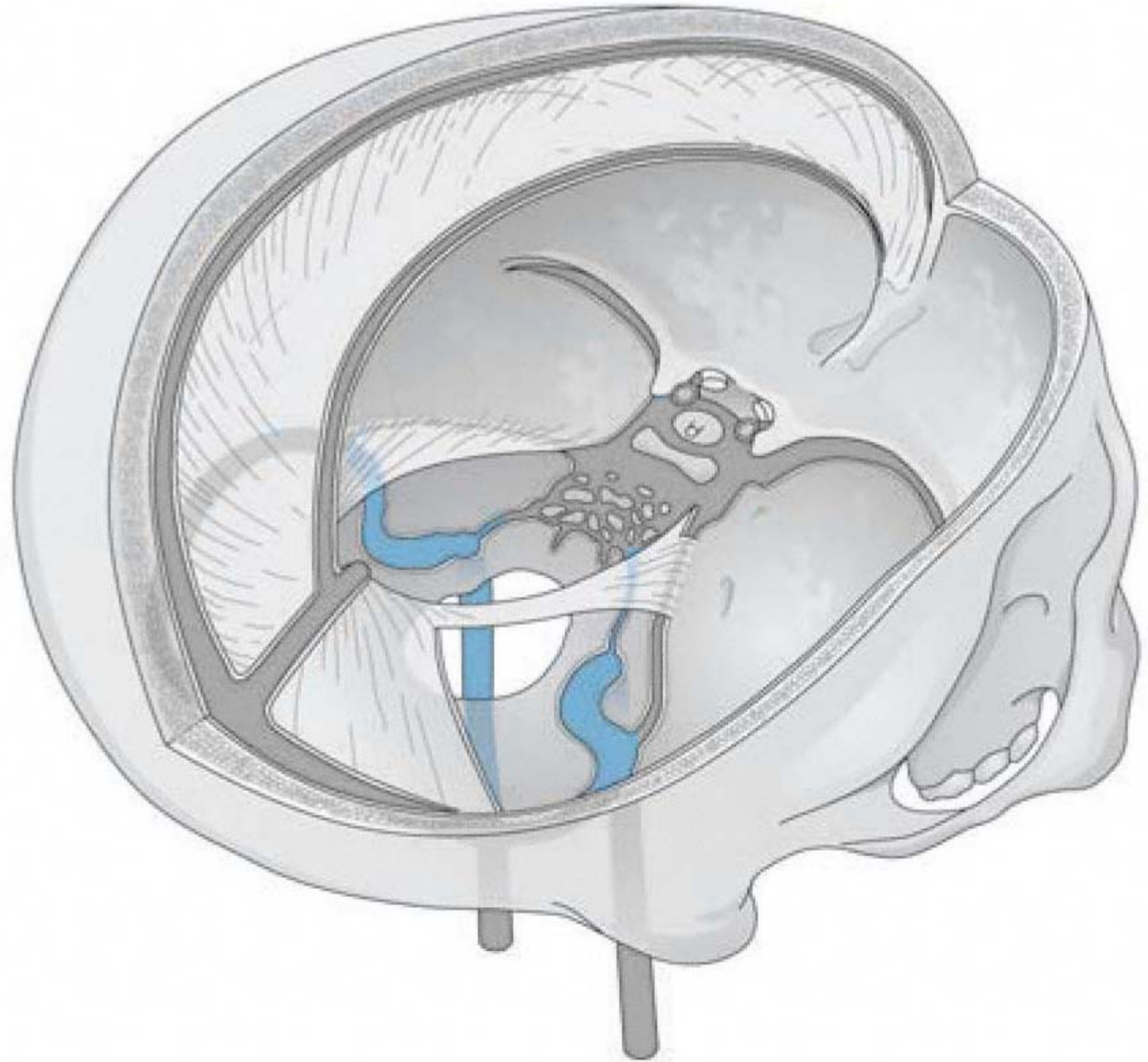
Transverse sinus



3) Cranial Meninges - Dural ven. sinuses

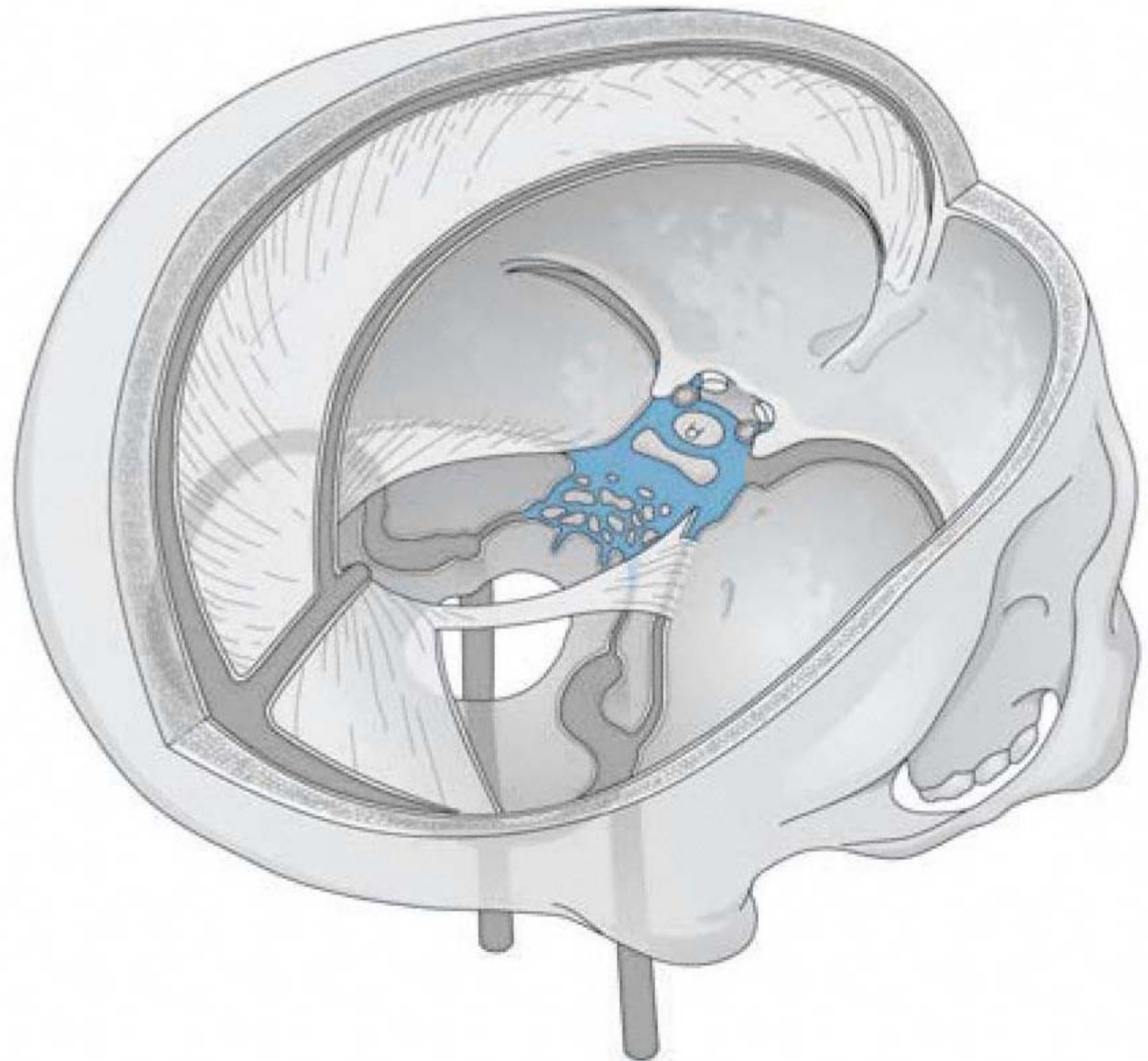
Sigmoid sinus

IJV



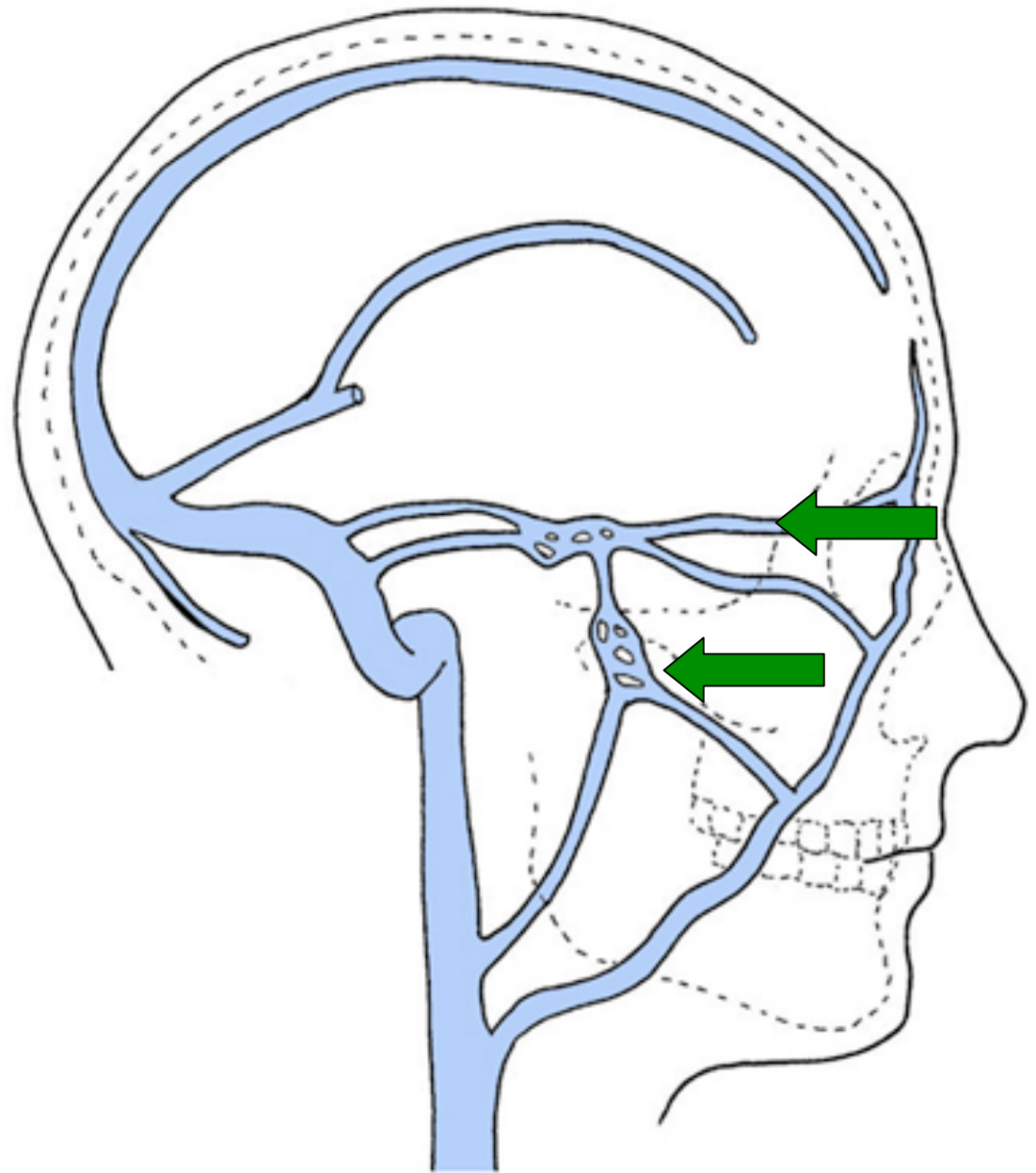
3) Cranial Meninges - Dural ven. sinuses

Cavernous sinus



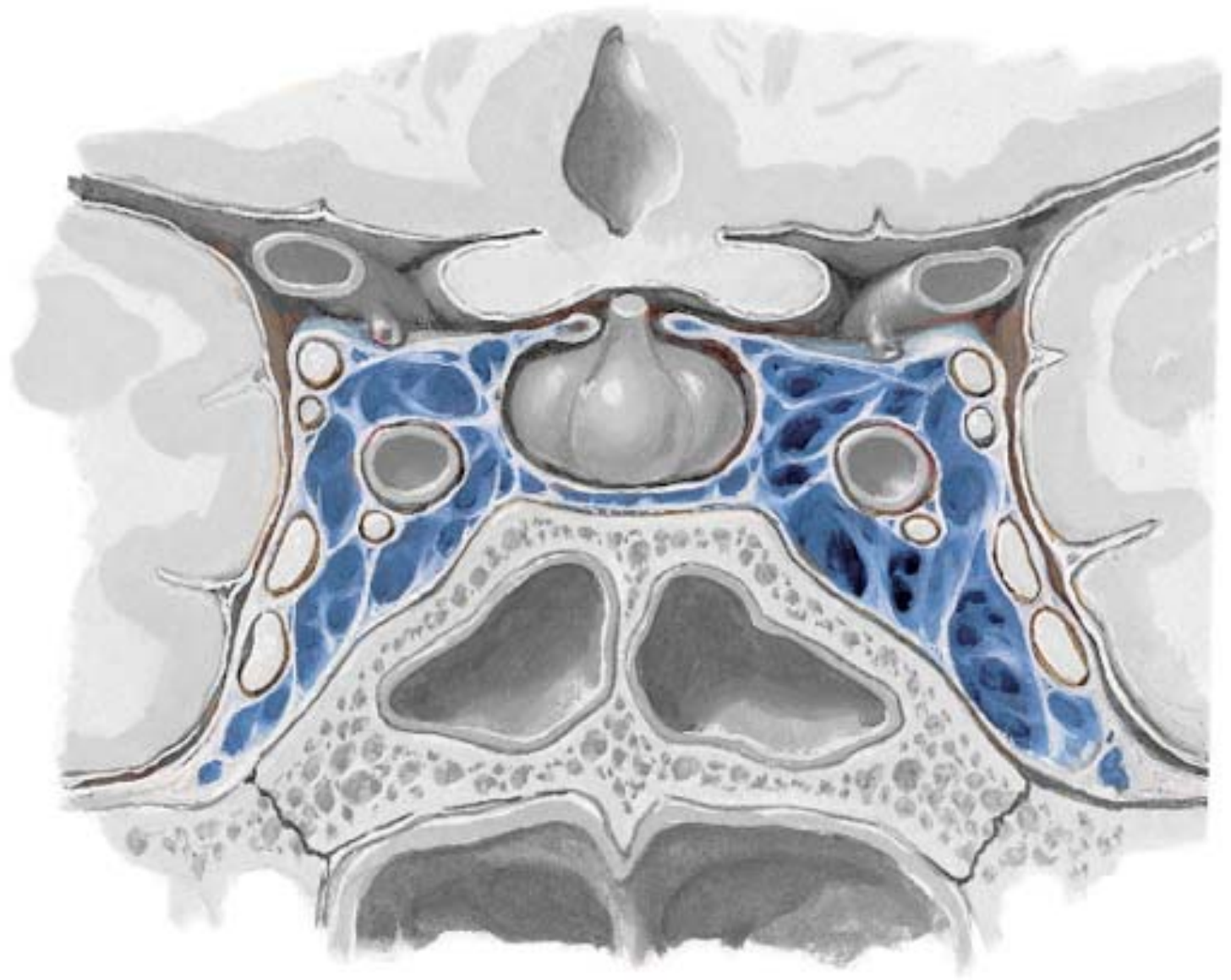
3) Cranial Meninges - Dural ven. sinuses

Cavernous sinus



3) Cranial Meninges - Cavernous sinus

Cavernous sinus

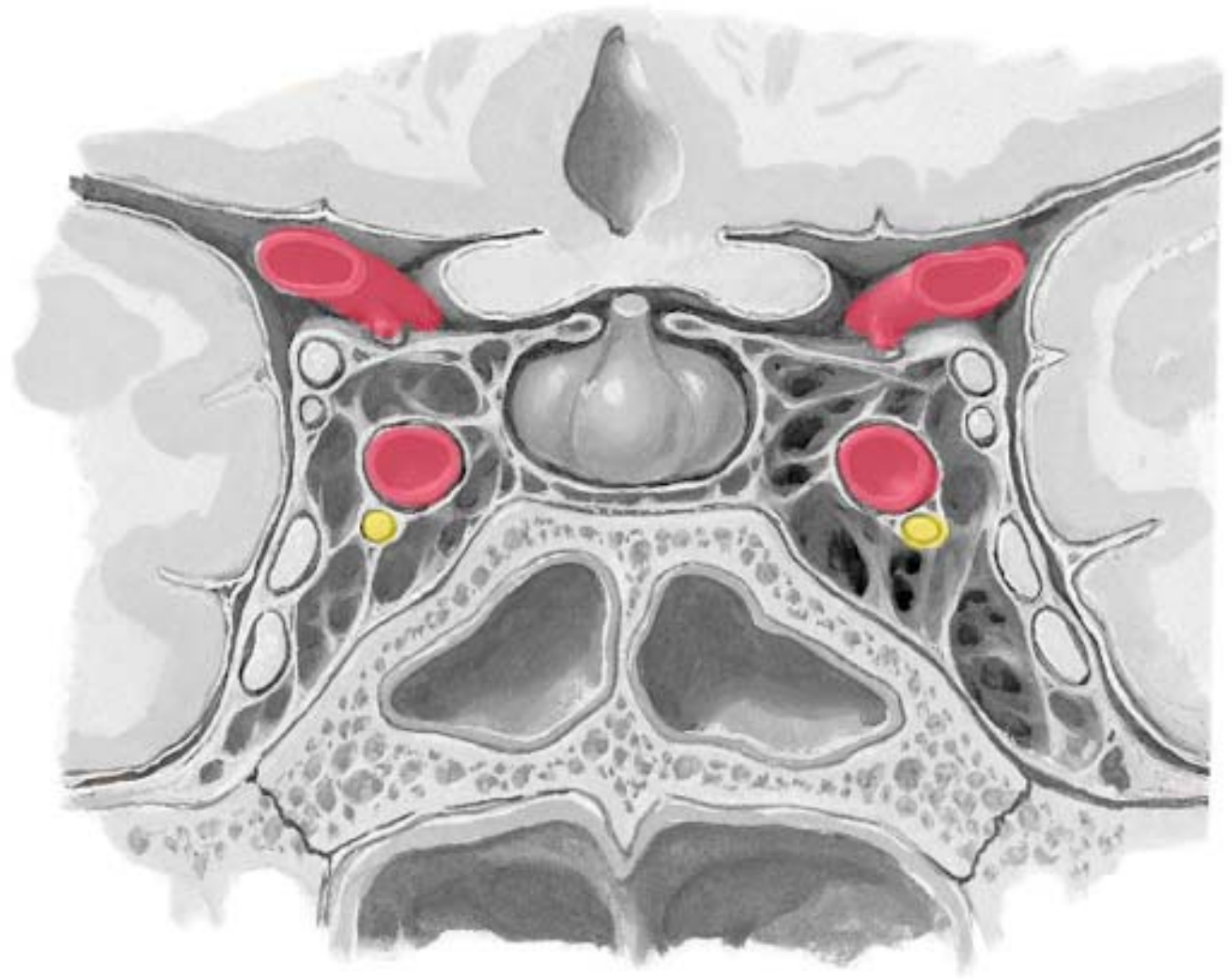


3) Cranial Meninges - Cavernous sinus

Structures passing THROUGH the sinus:

ICA

CN VI



3) Cranial Meninges - Cavernous sinus

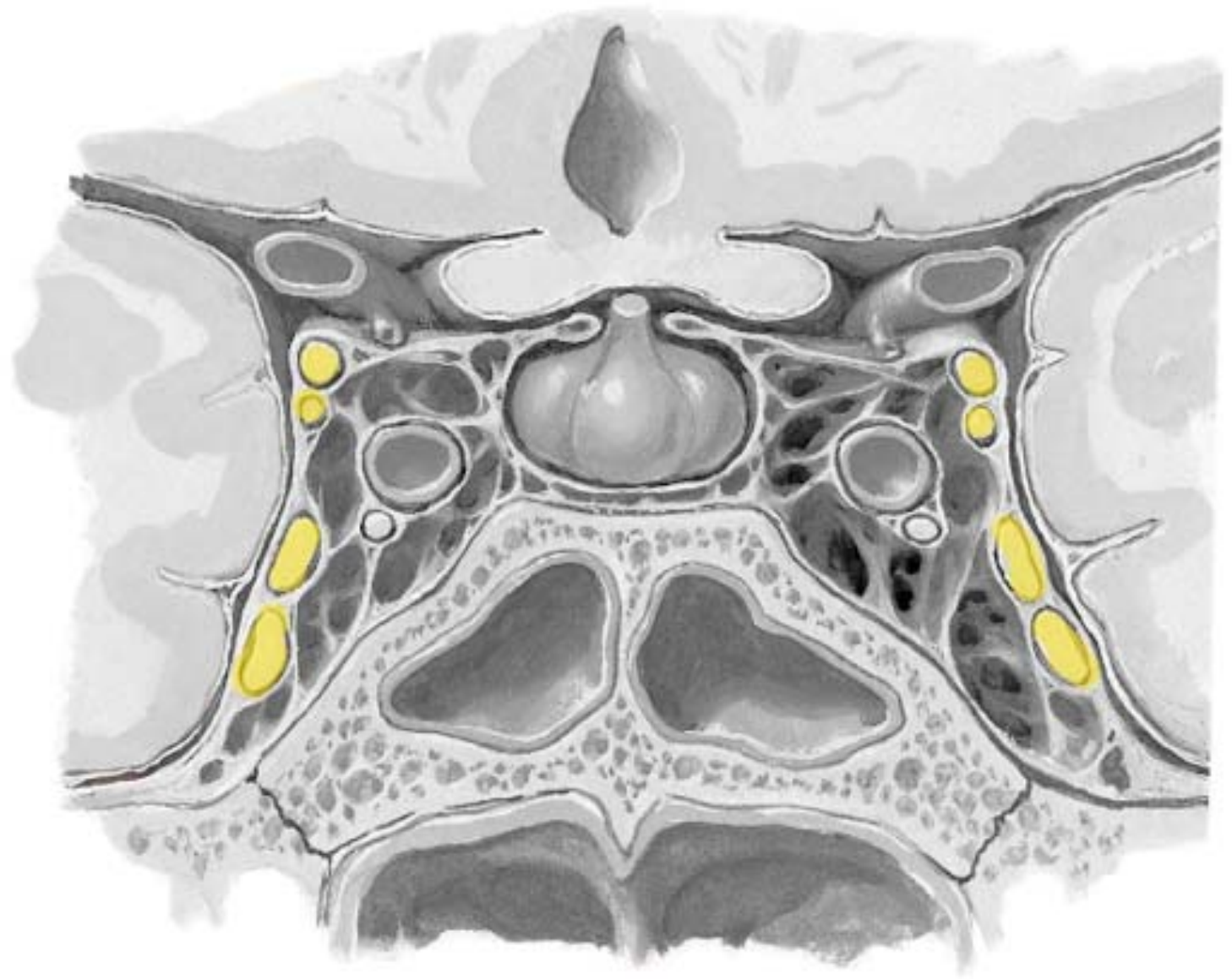
Structures in LATERAL WALL of sinus:

CN III

CN IV

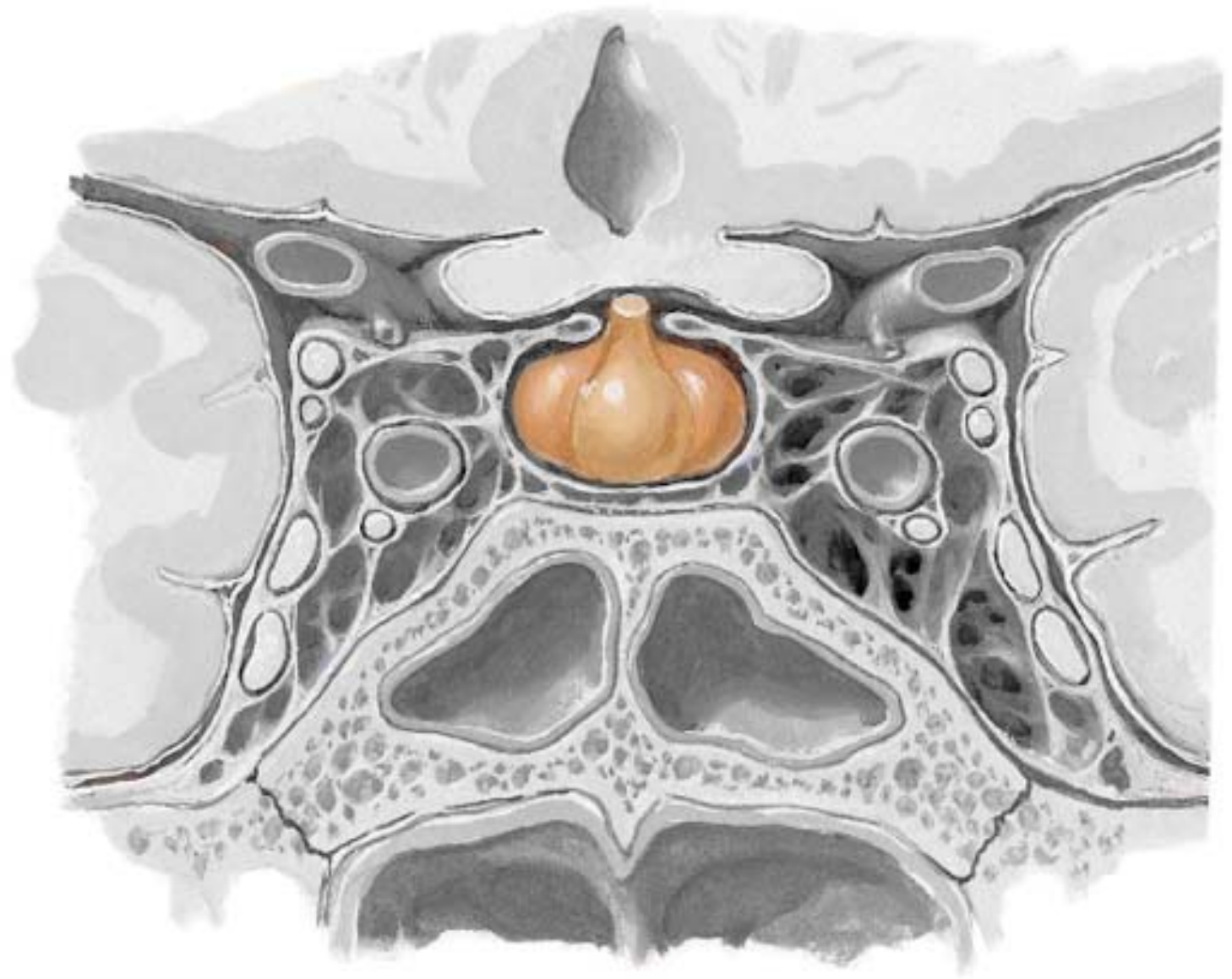
CN V-1

CN V-2



3) Cranial Meninges - Cavernous sinus

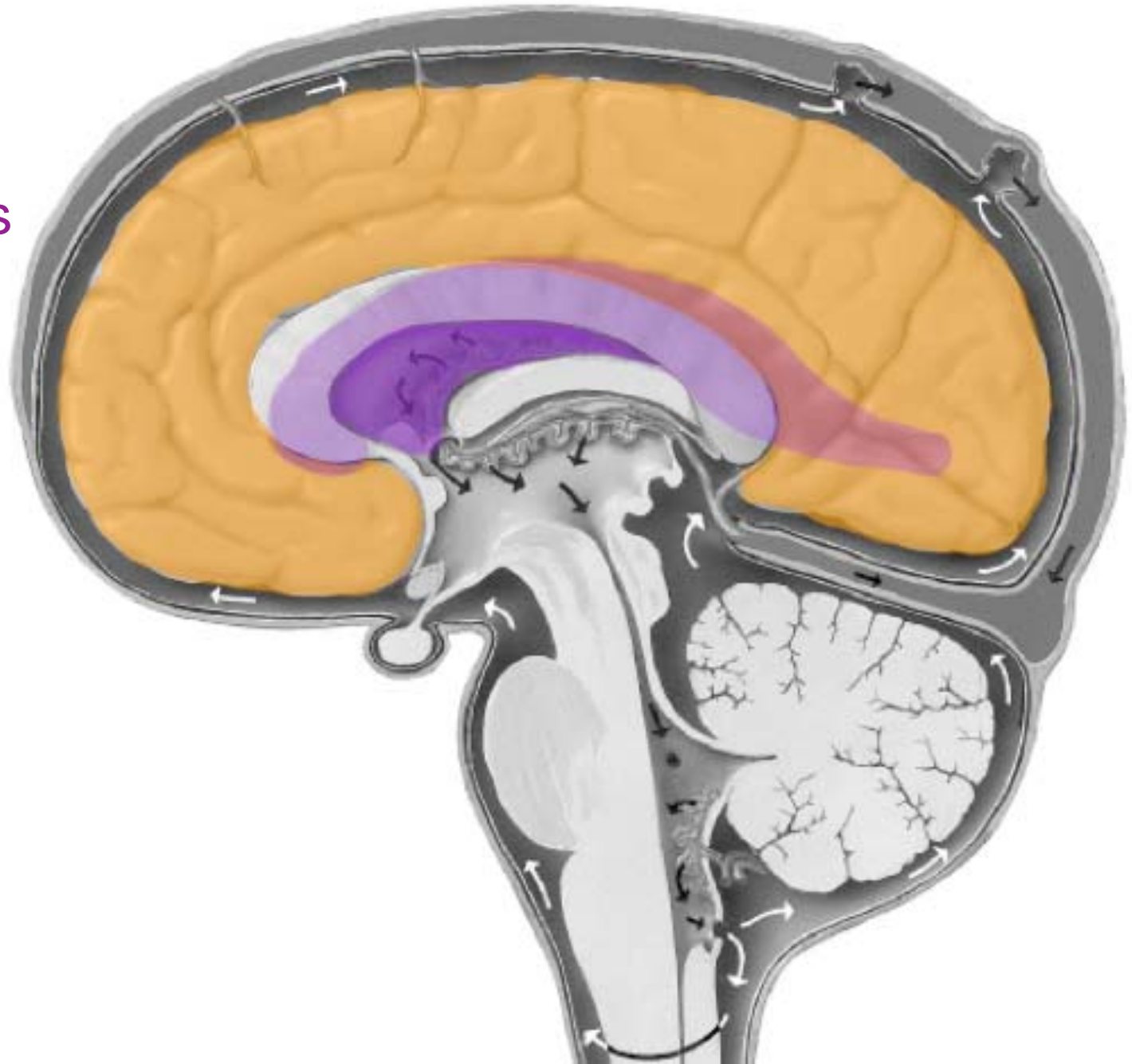
Pituitary gland



4) Brain

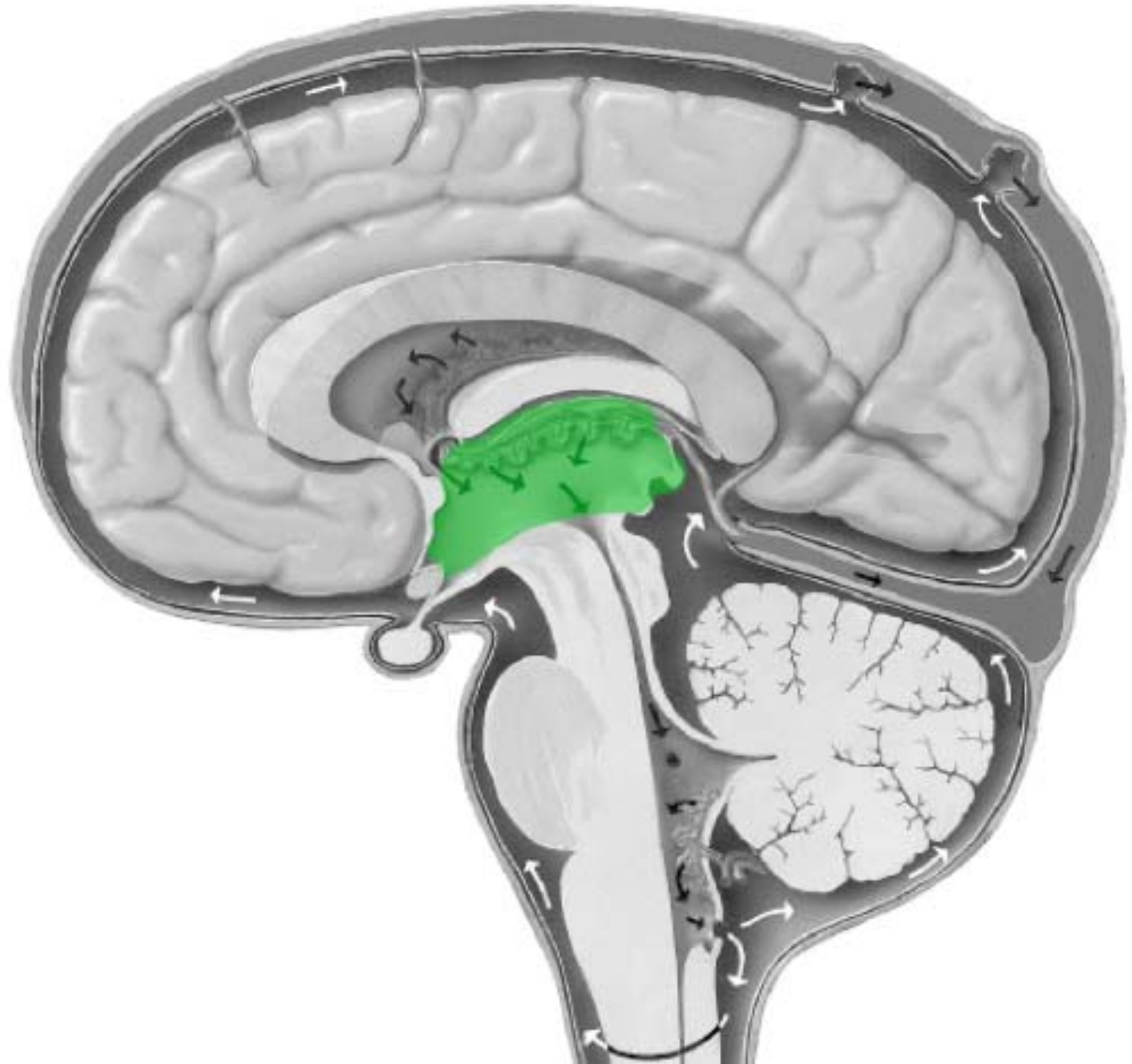
Cerebrum

Lateral ventricles



4) Brain

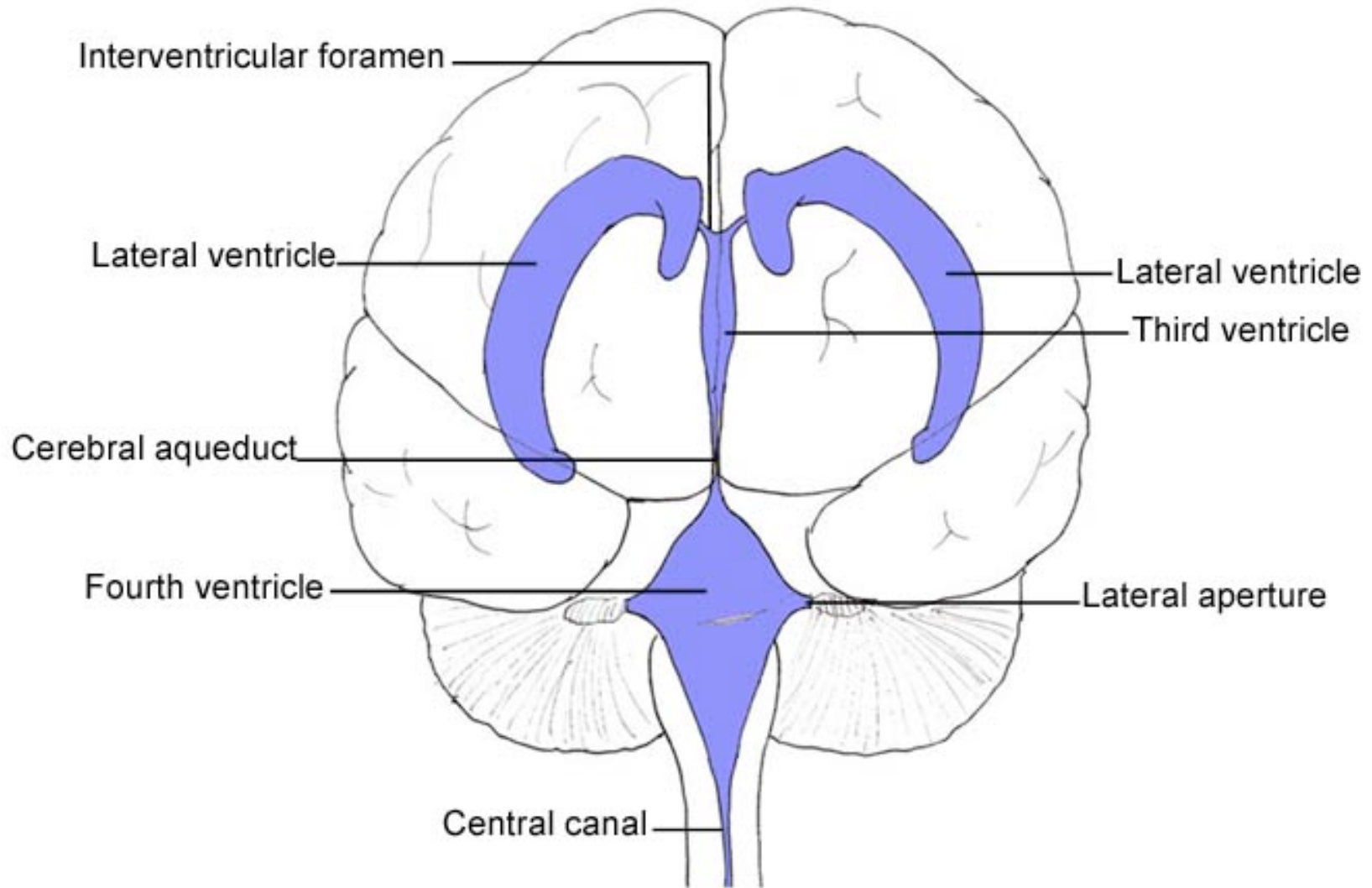
Diencephalon
Third ventricle



4) Brain

Lateral ventricles

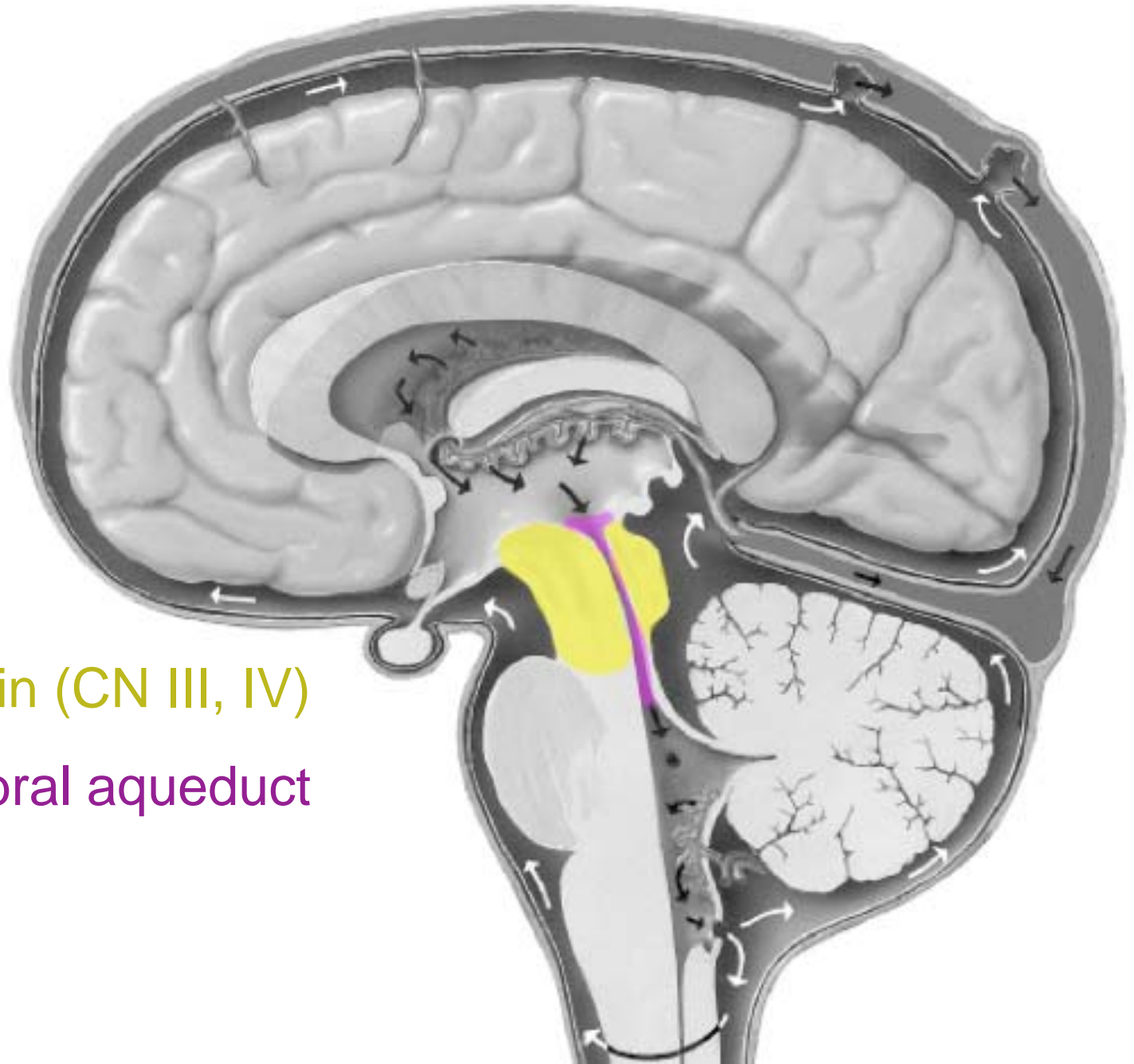
Third ventricle



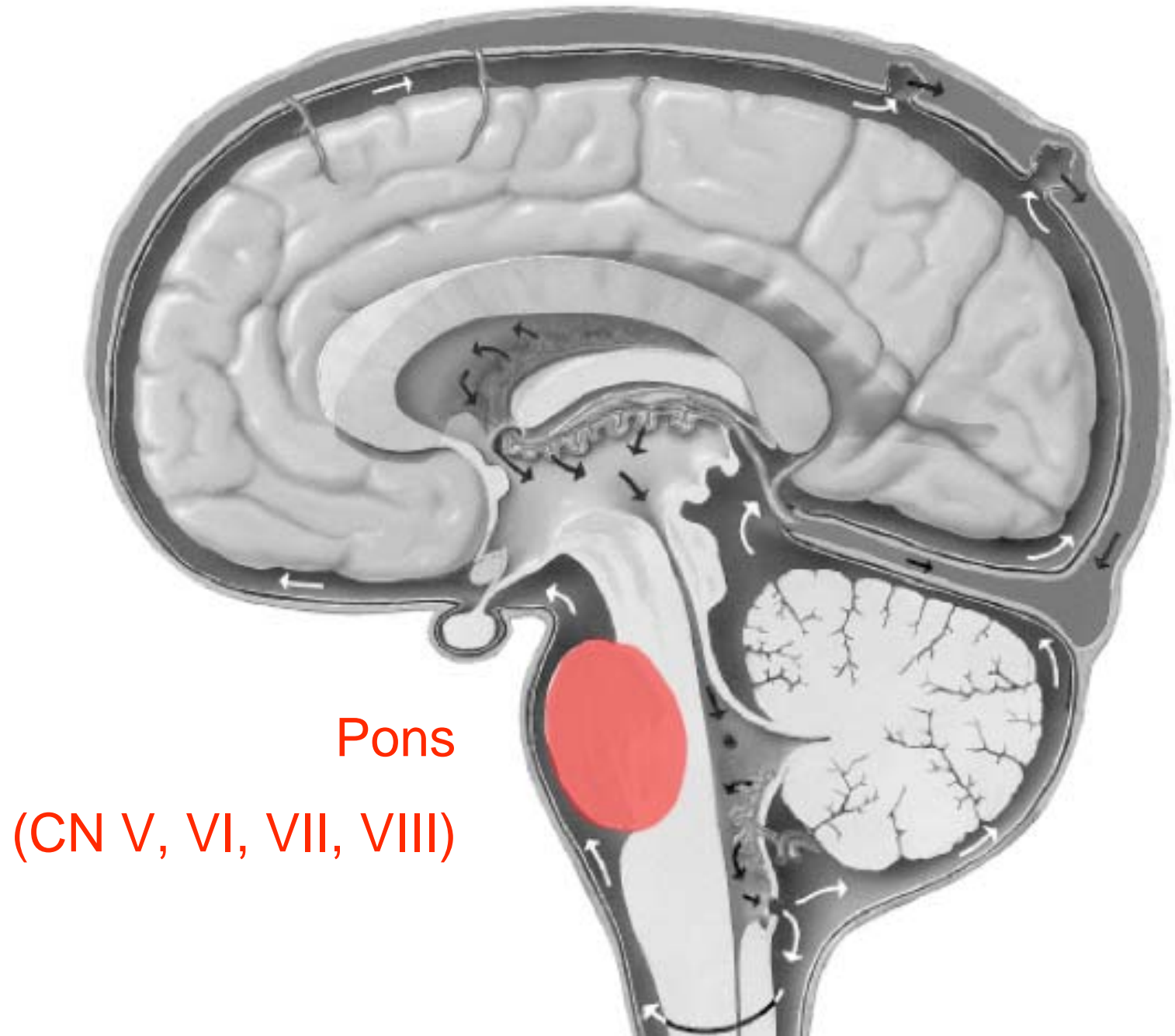
4) Brain

Midbrain (CN III, IV)

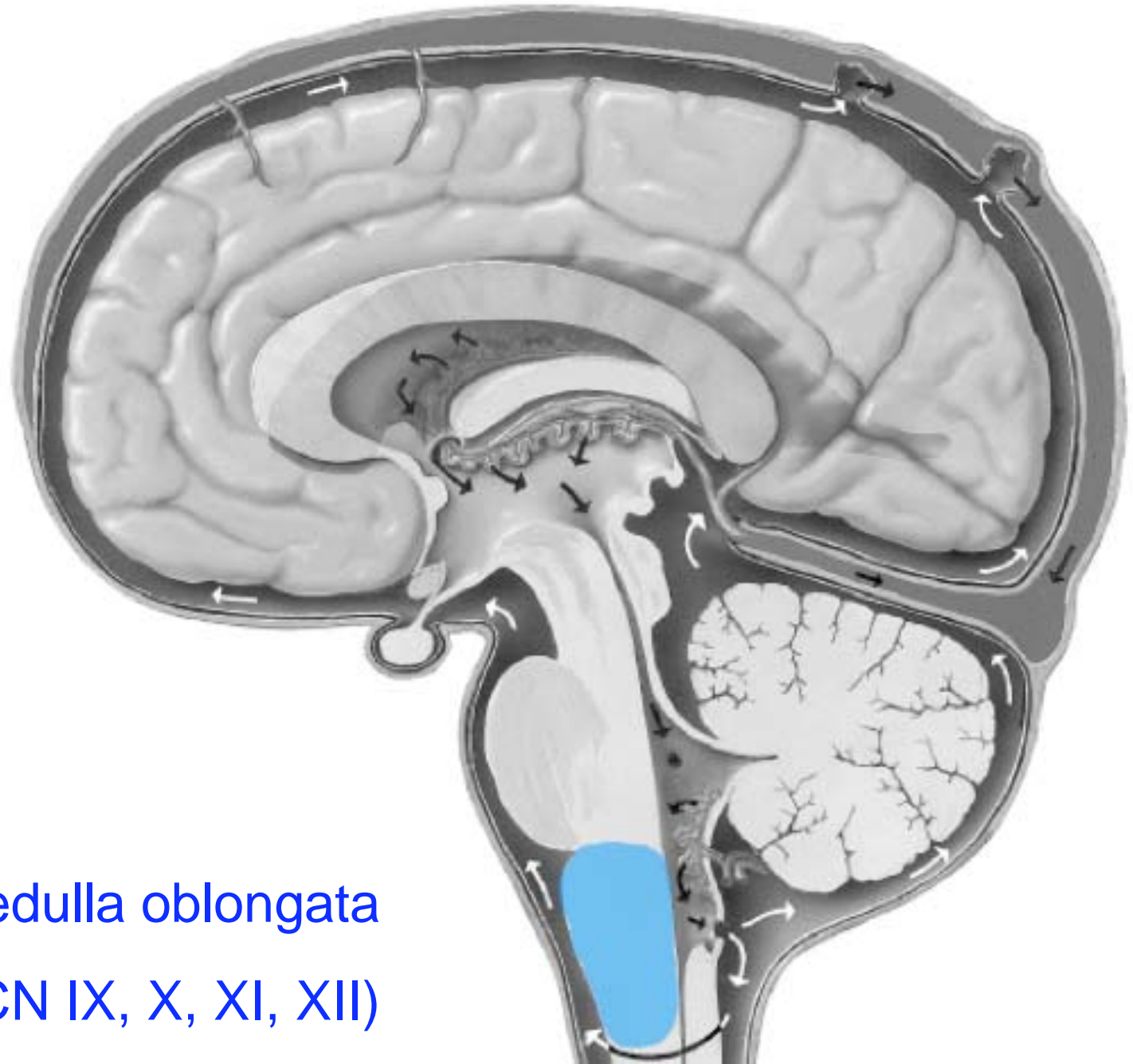
Cerebral aqueduct



4) Brain

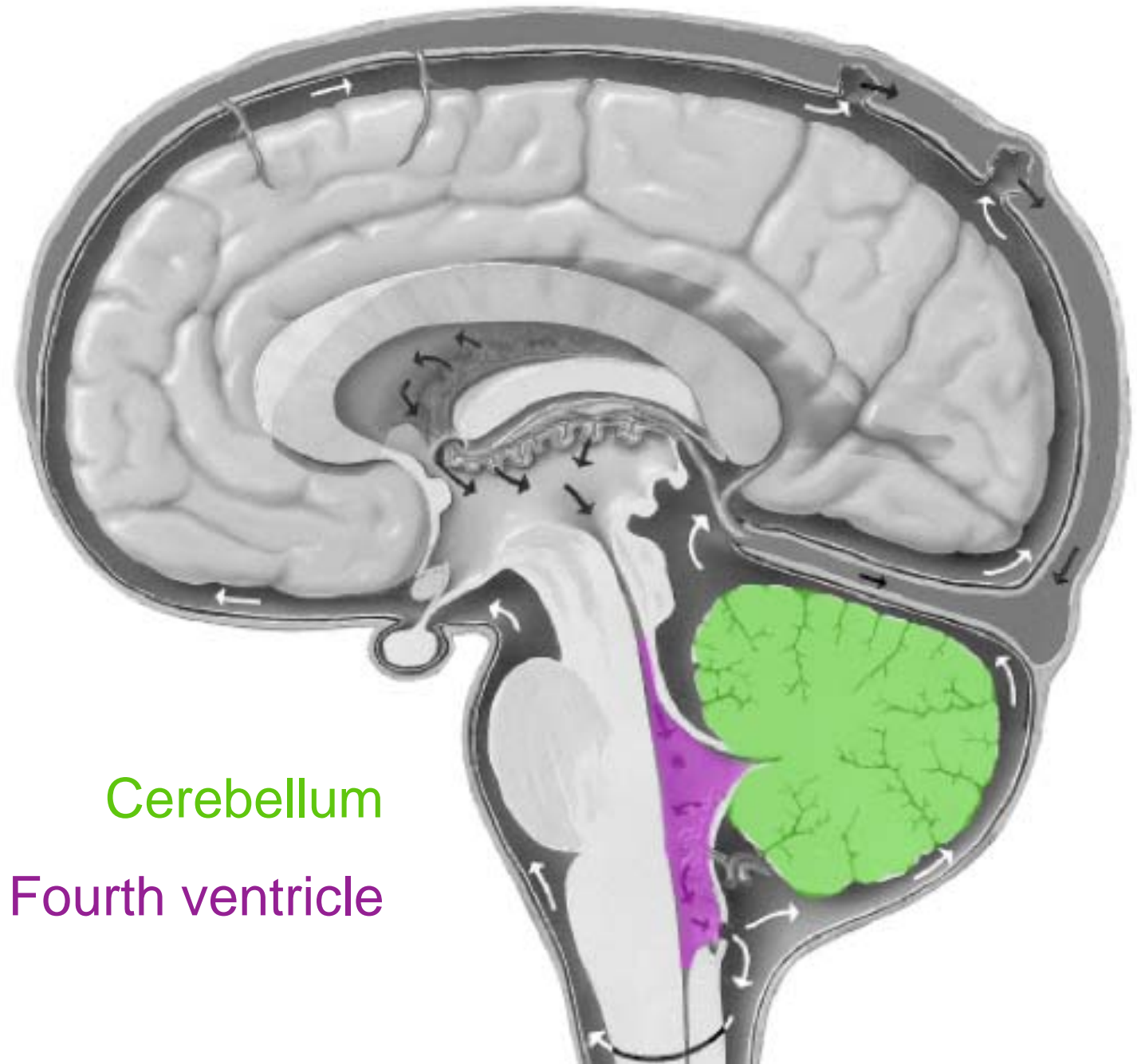


4) Brain



Medulla oblongata
(CN IX, X, XI, XII)

4) Brain

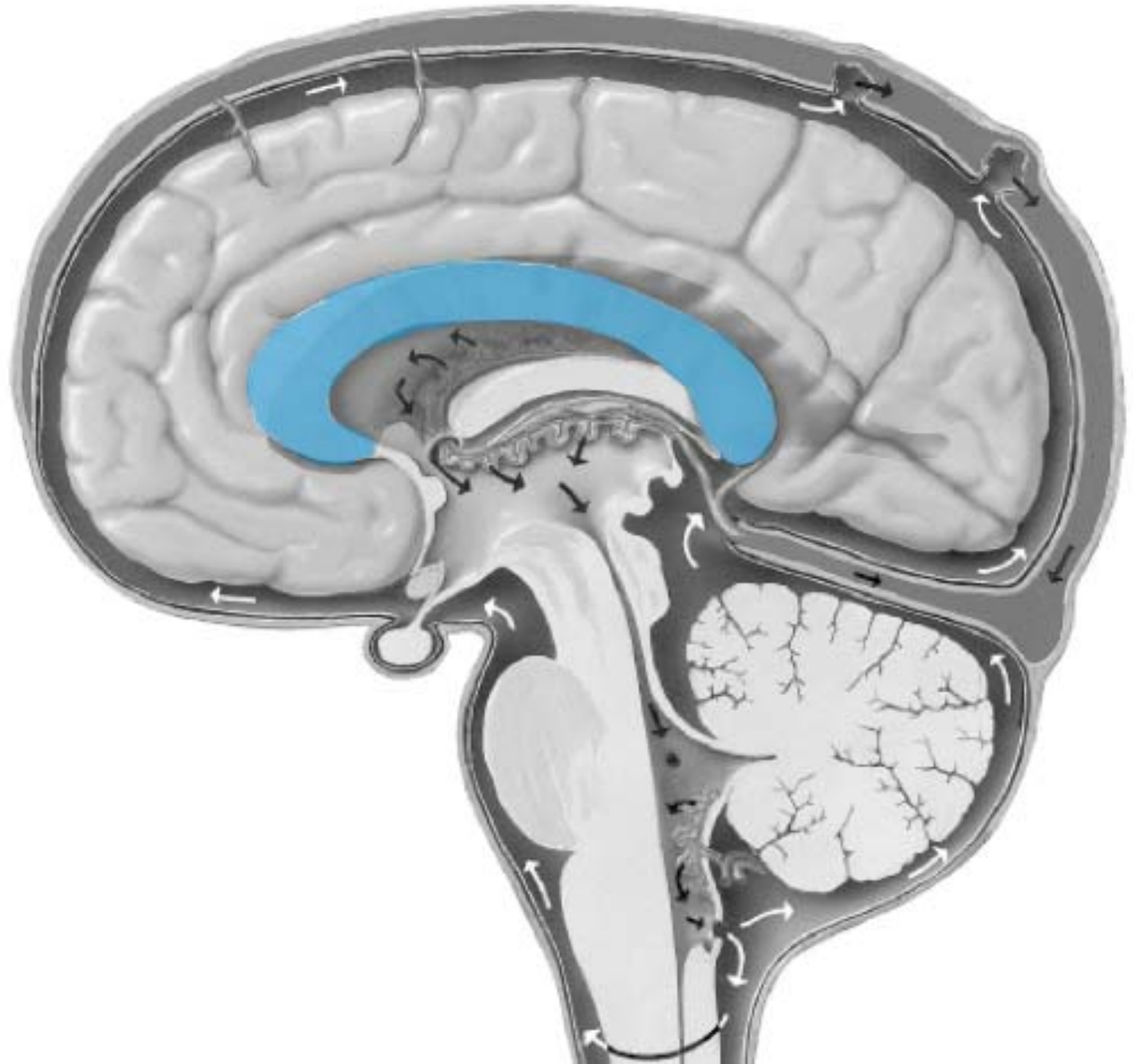


Cerebellum

Fourth ventricle

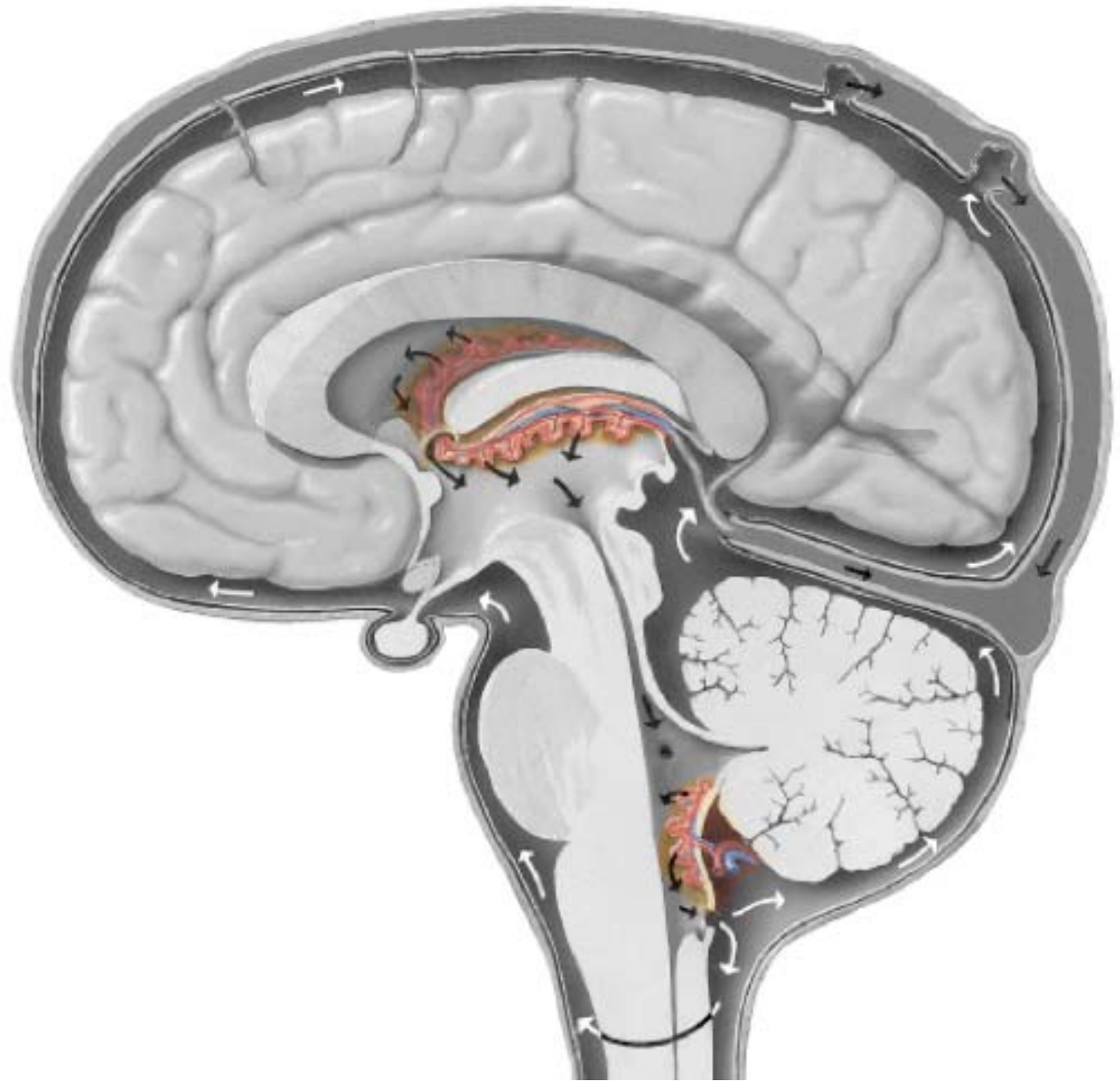
4) Brain

Corpus callosum



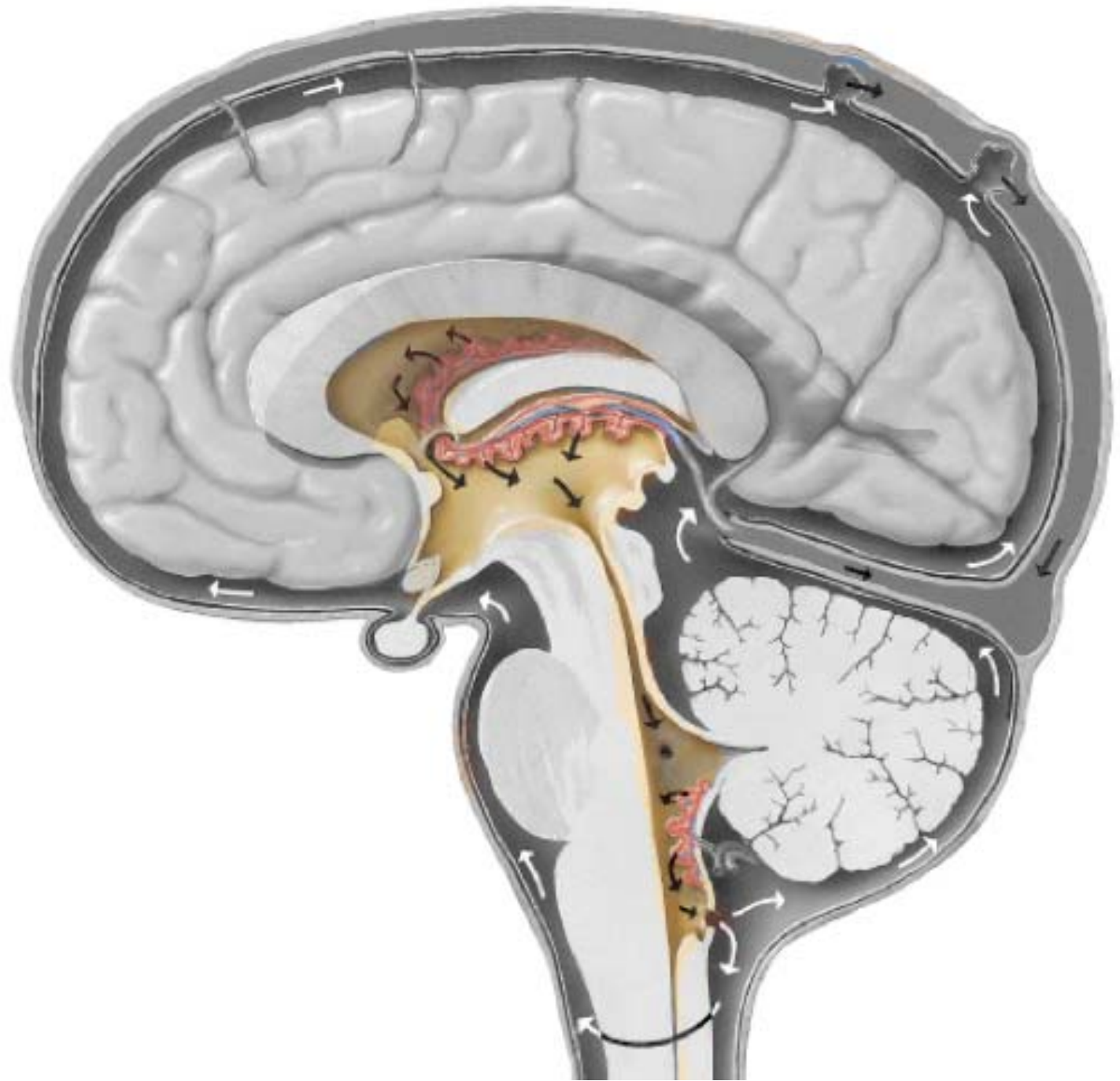
4) Brain

Choroid plexus

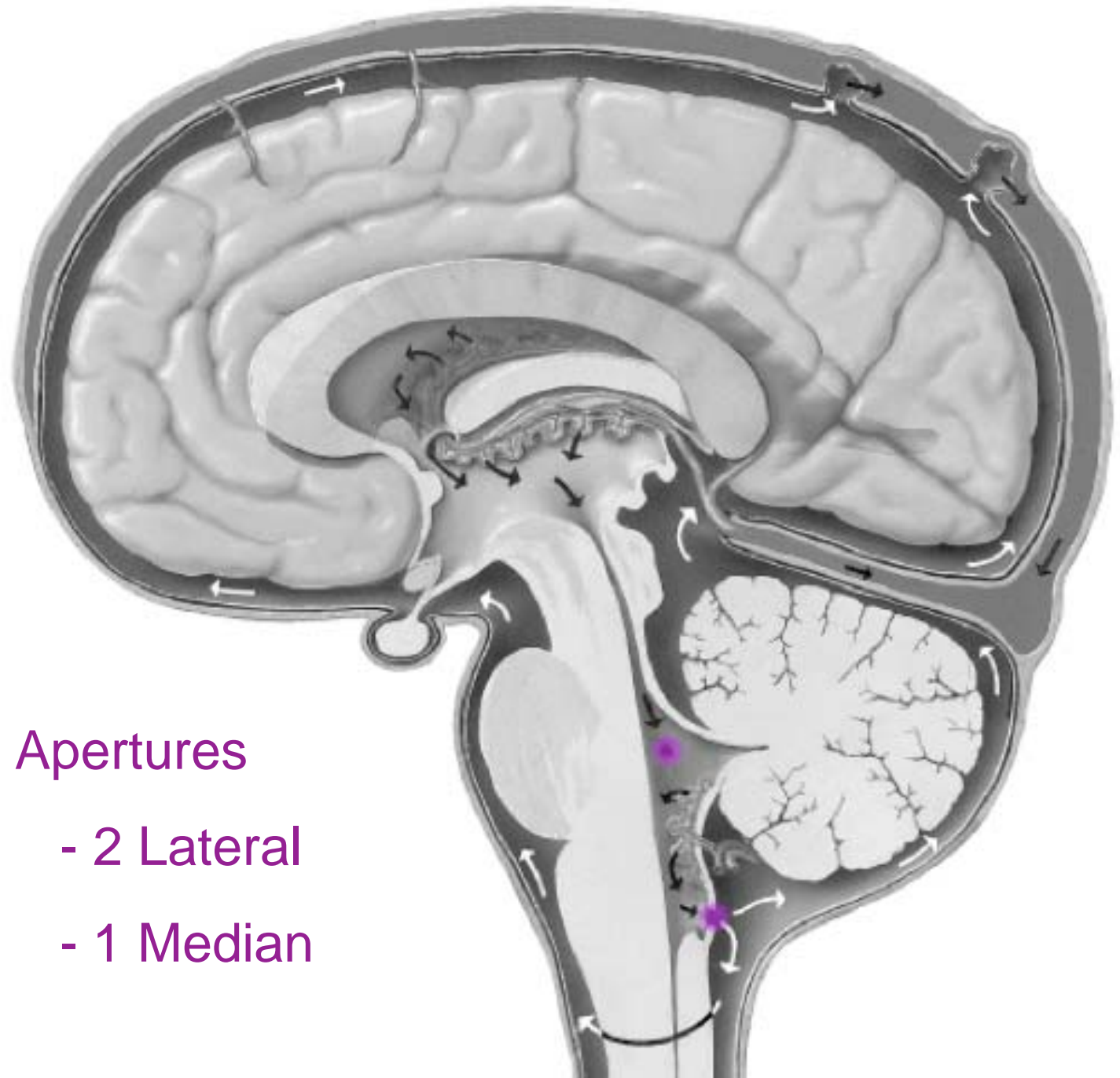


4) Brain

Ventricles



4) Brain



Apertures

- 2 Lateral

- 1 Median

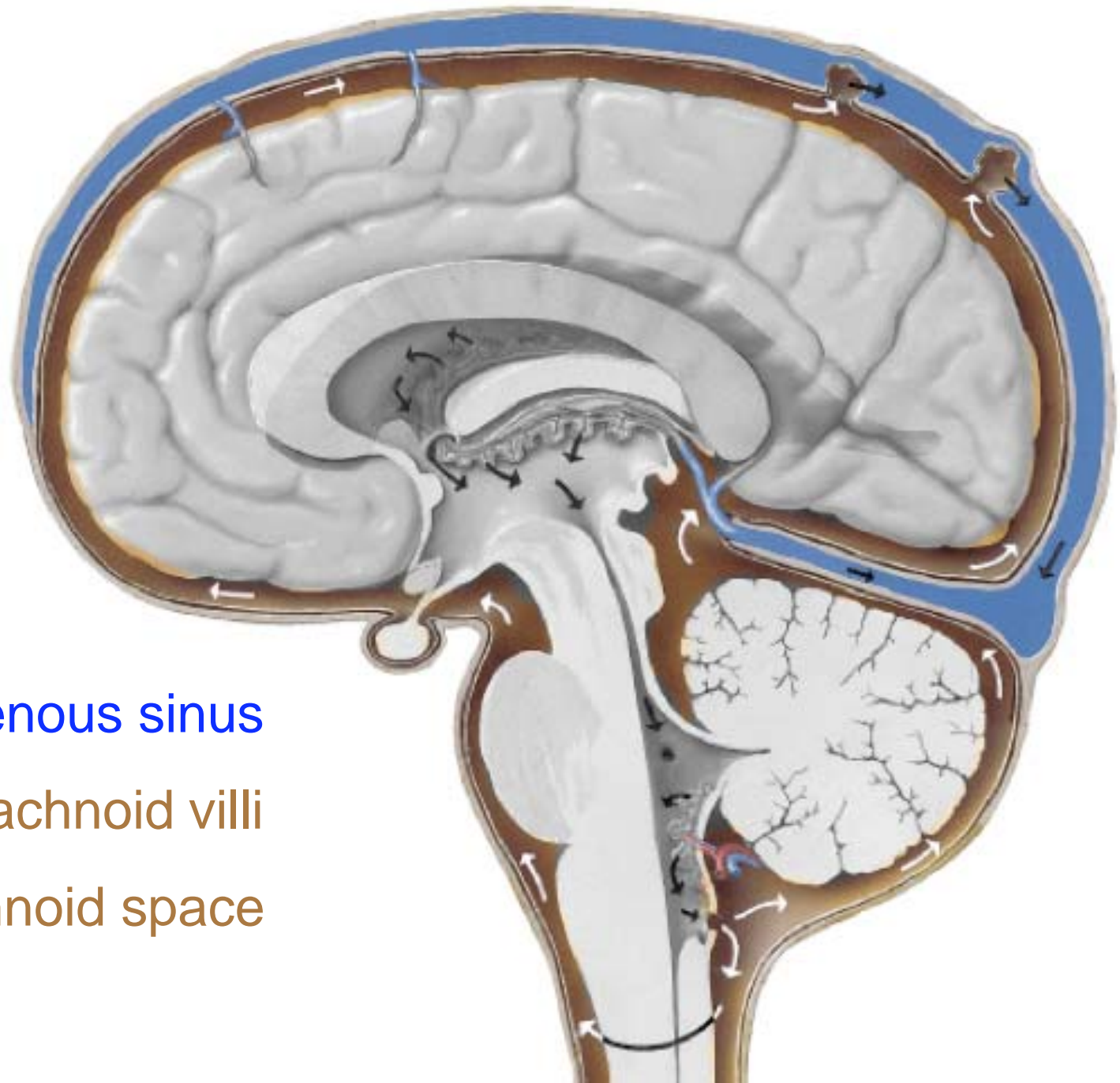
Nutty Putty Caves



Nutty Putty Caves



4) Brain



Dural venous sinus

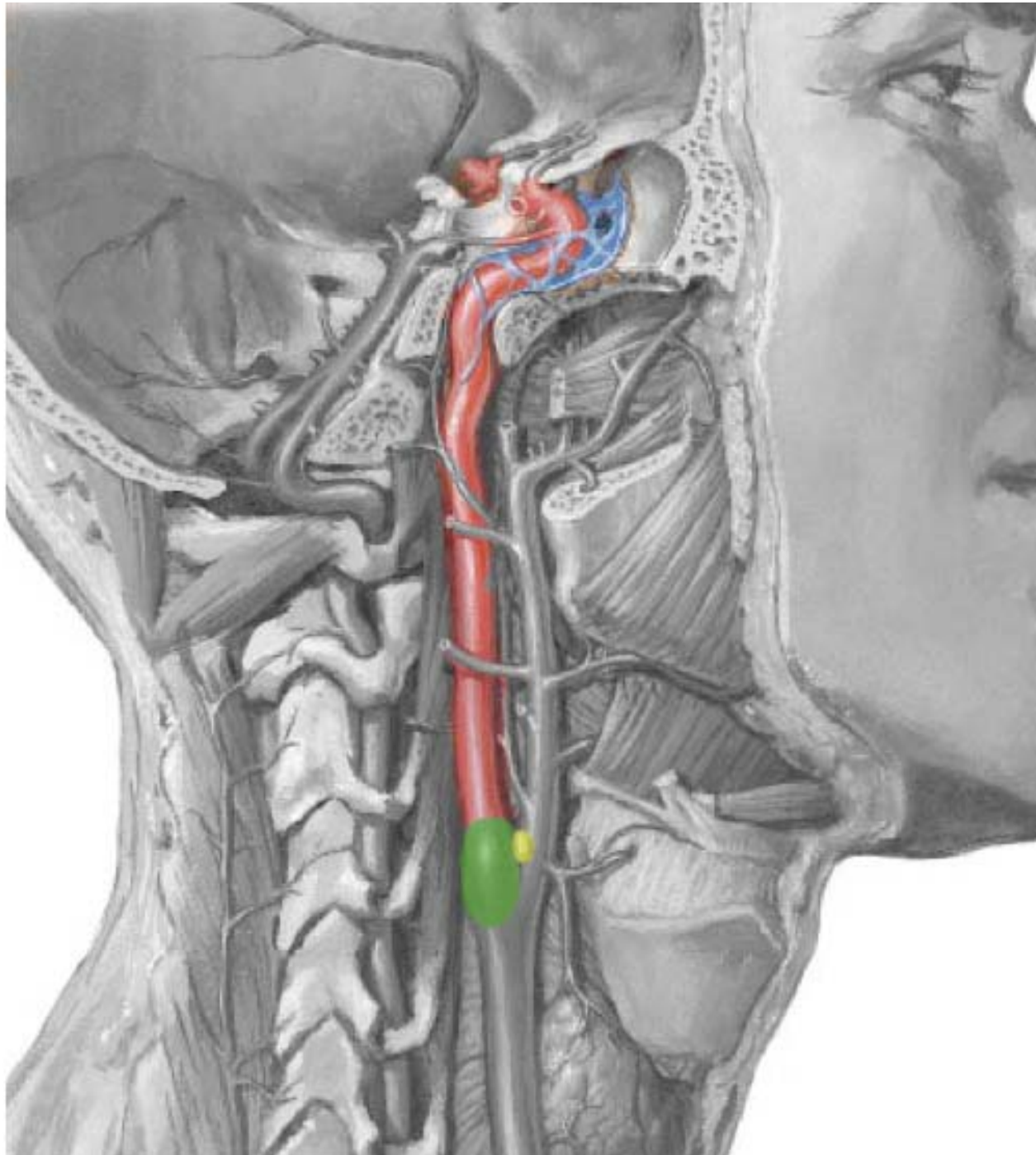
Subarachnoid villi

Subarachnoid space

5) Blood Supply to the Brain

Internal carotid artery

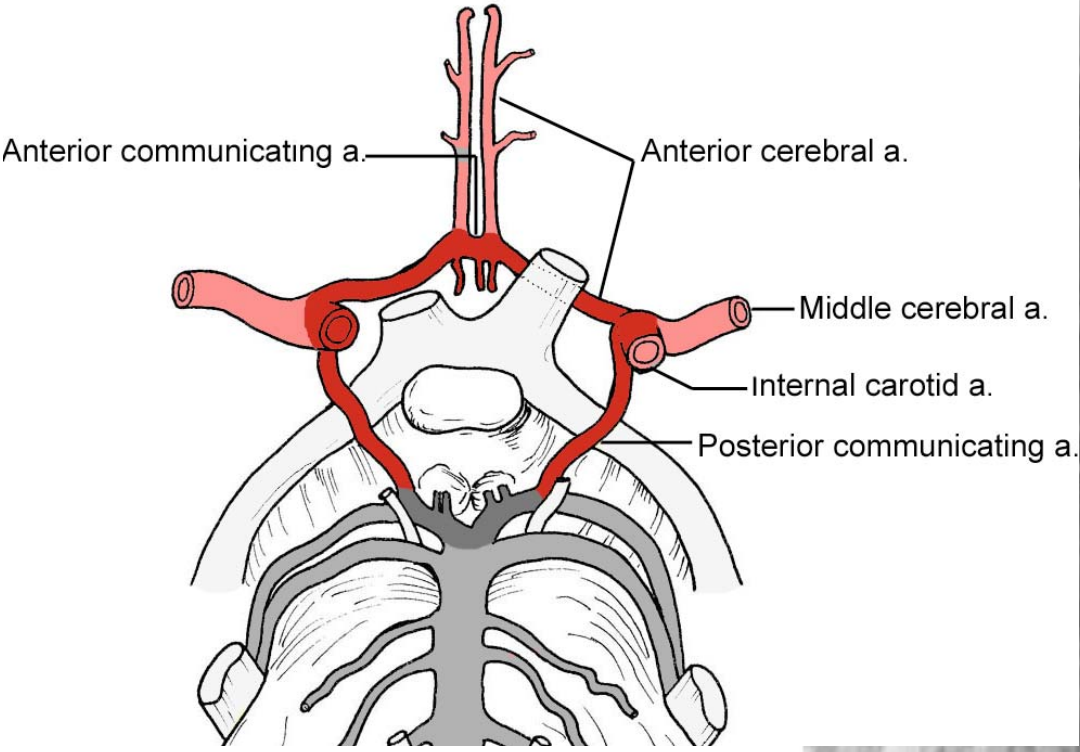
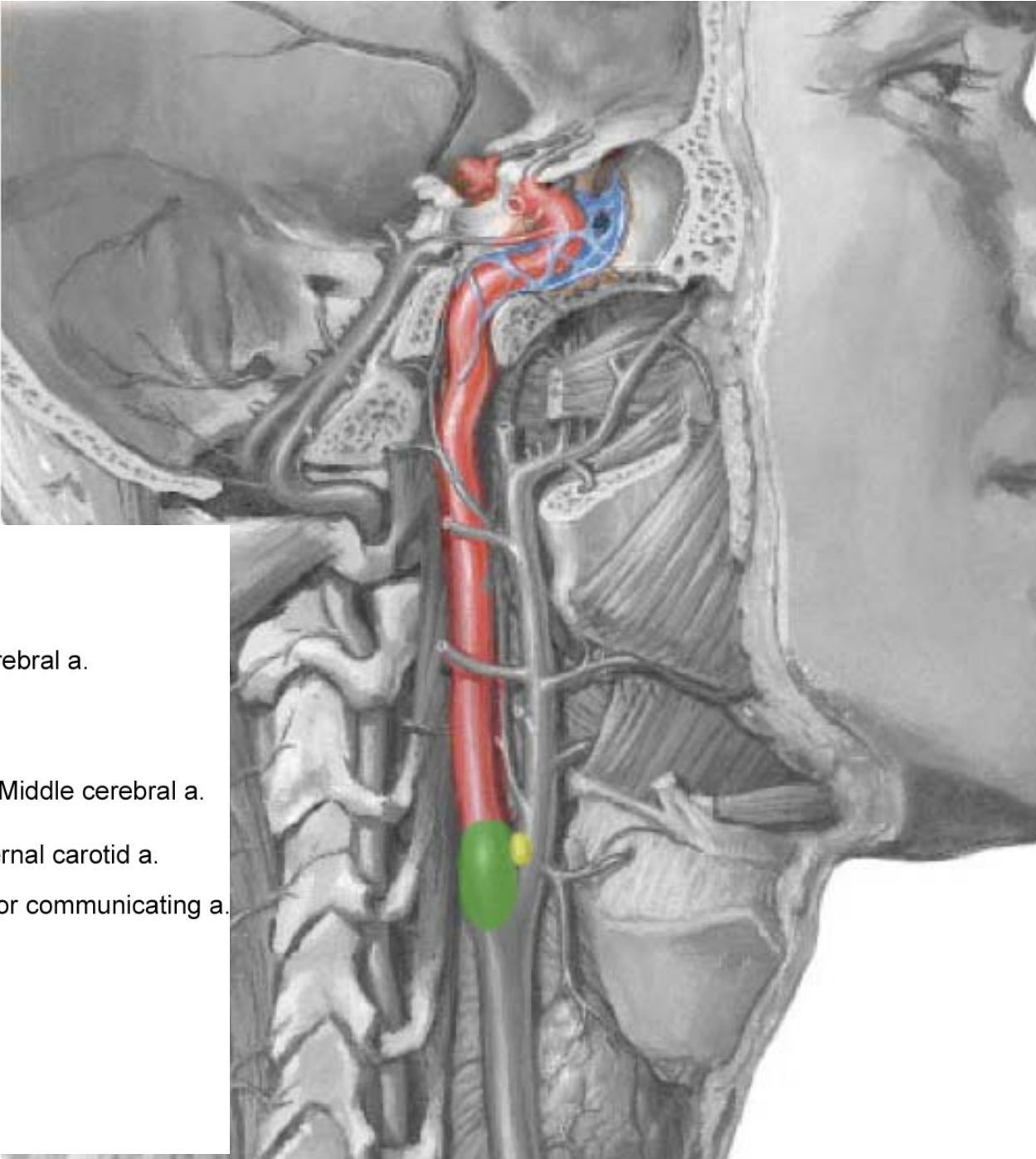
Vertebral artery



5) Blood Supply to the Brain

Internal carotid artery

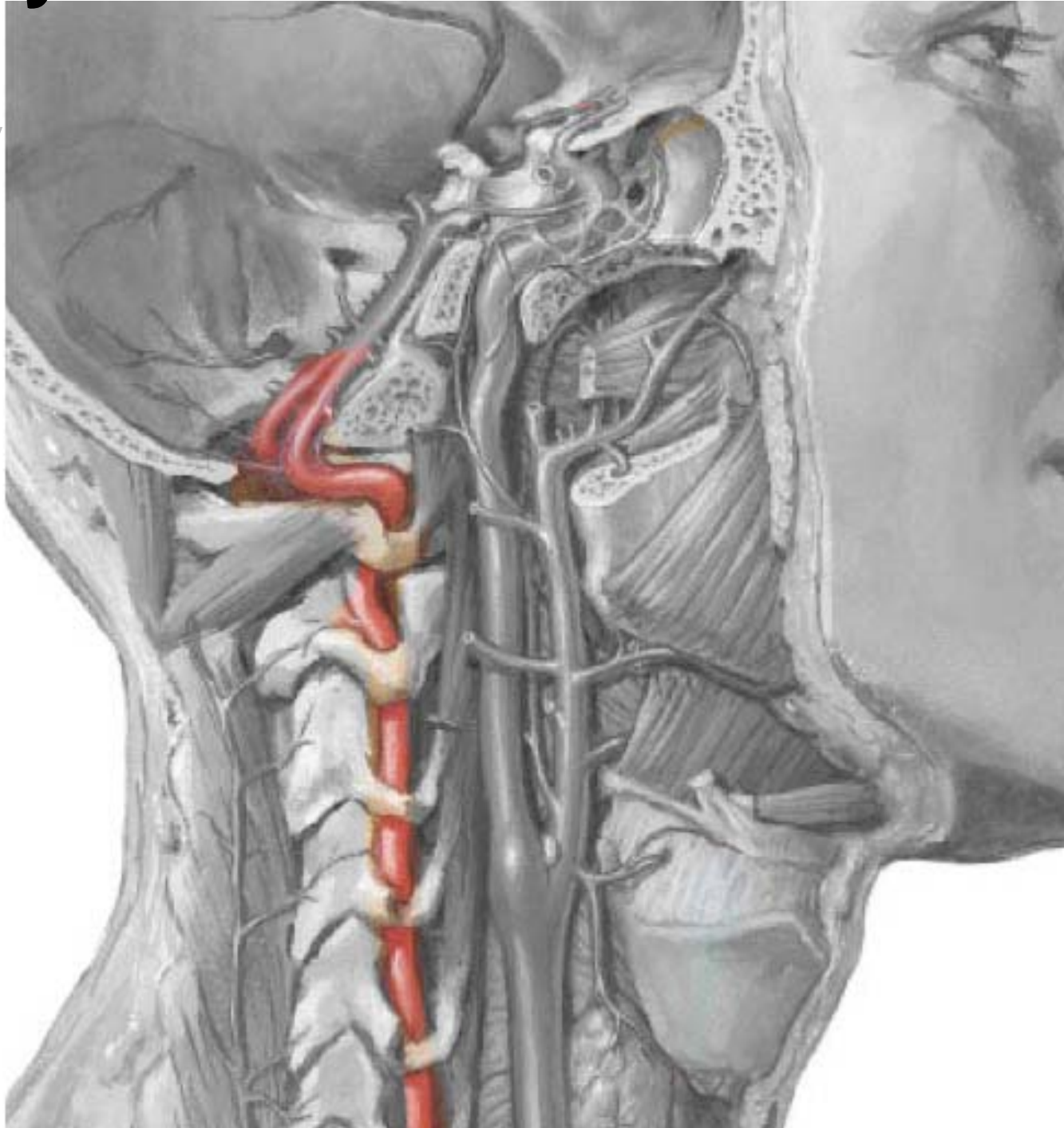
Vertebral artery



5) Blood Supply to the Brain

Internal carotid artery

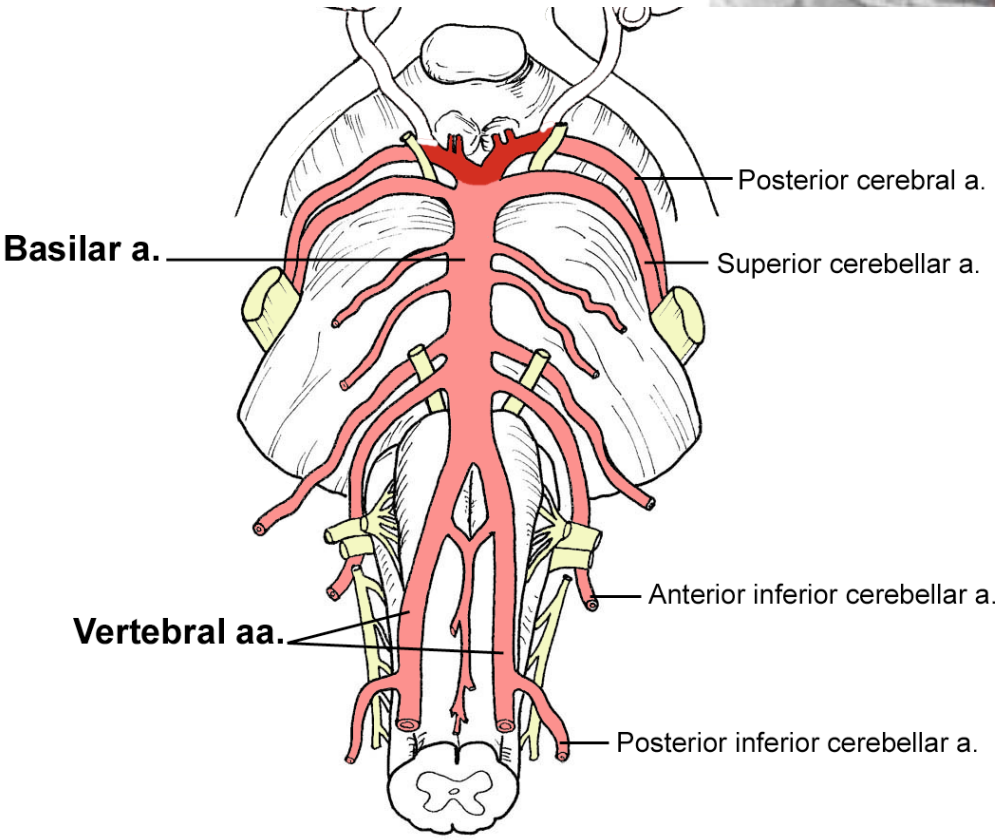
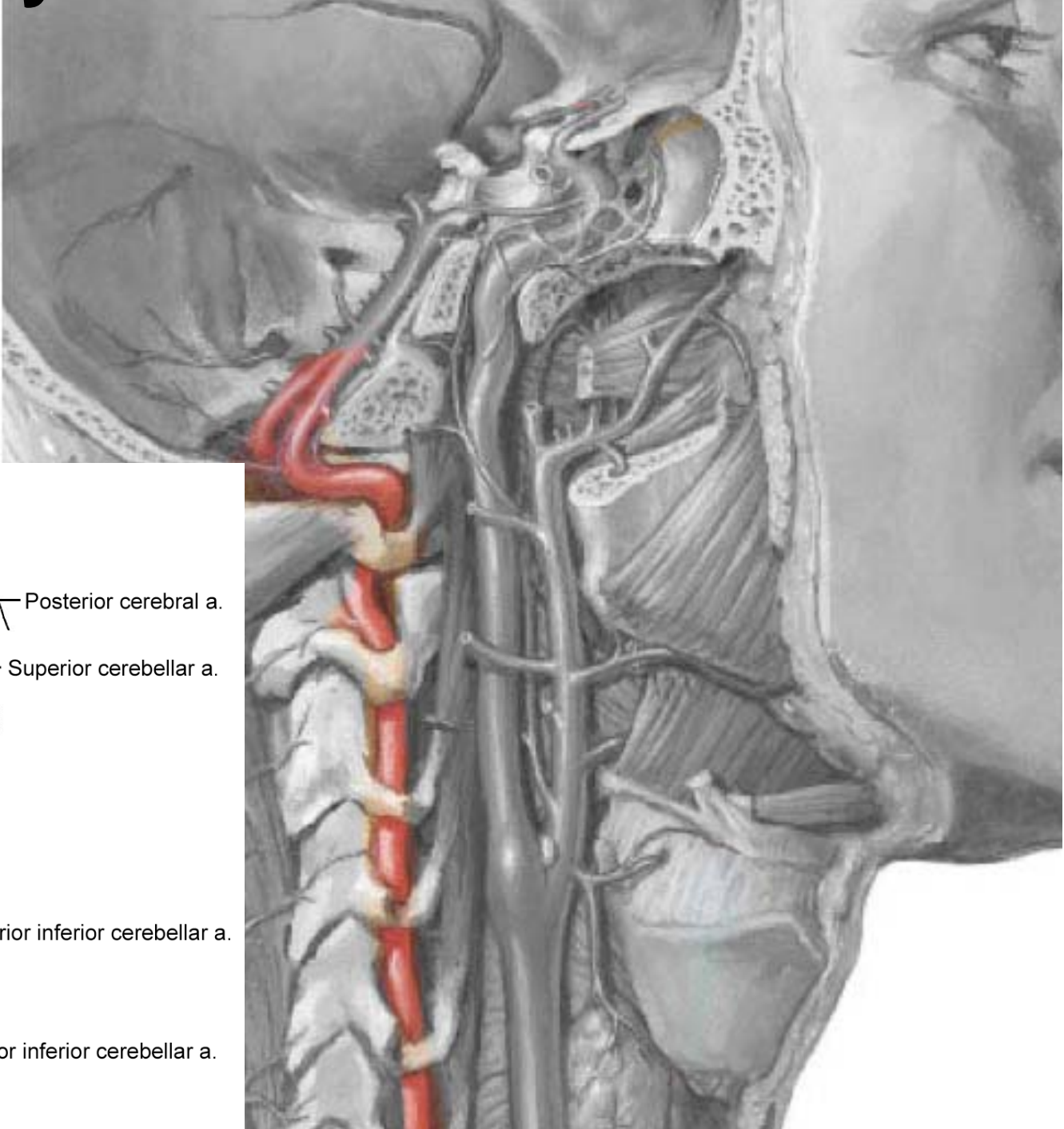
Vertebral artery



5) Blood Supply to the Brain

Internal carotid artery

Vertebral artery

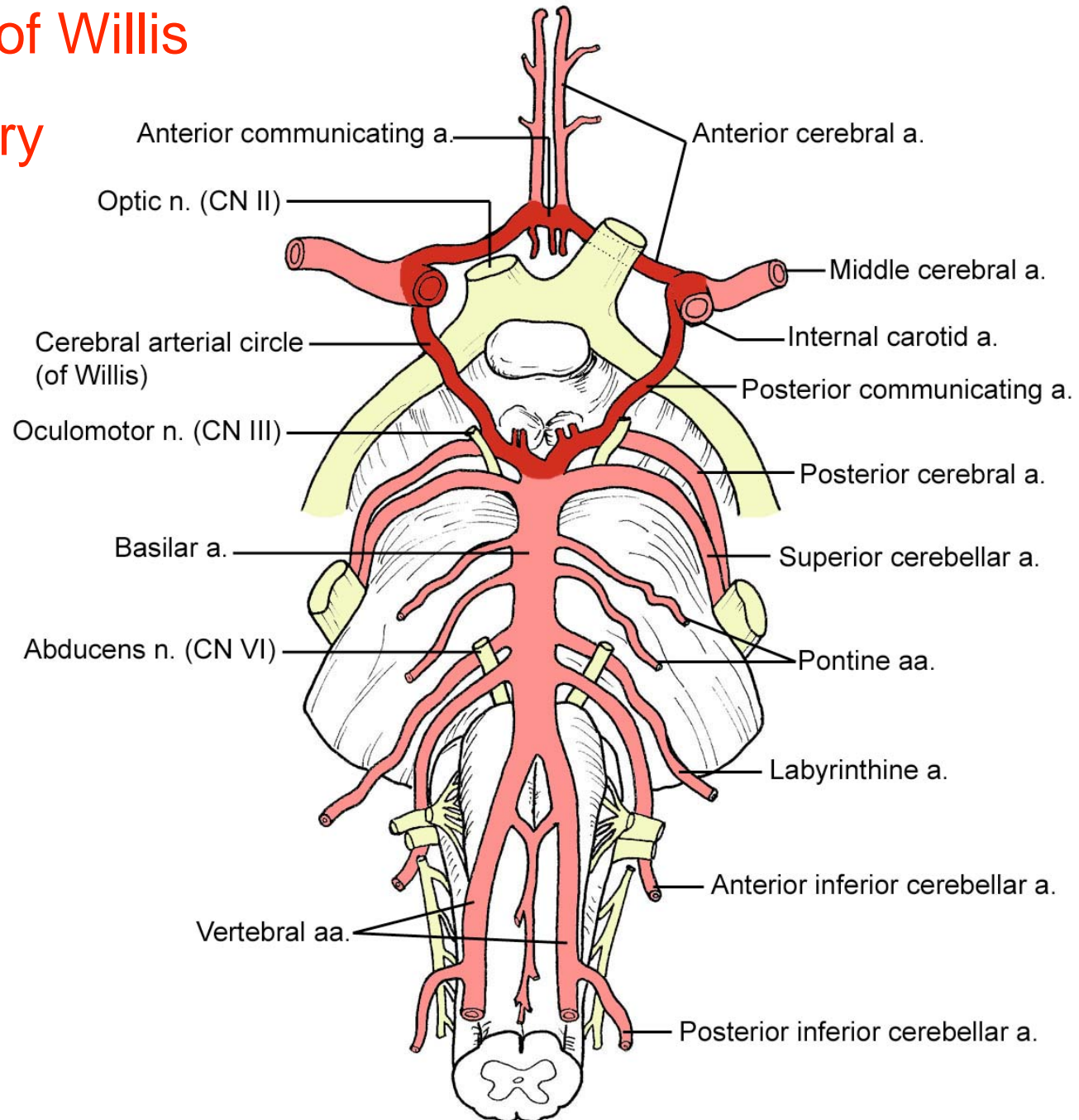


5) Blood Supply to the Brain

Cerebral arterial circle of Willis

Internal carotid artery

Vertebral artery



5) Blood Supply to the Brain

5) Blood Supply to the Brain

5) Blood Supply to the Brain

5) Blood Supply to the Brain

THANK-YOU