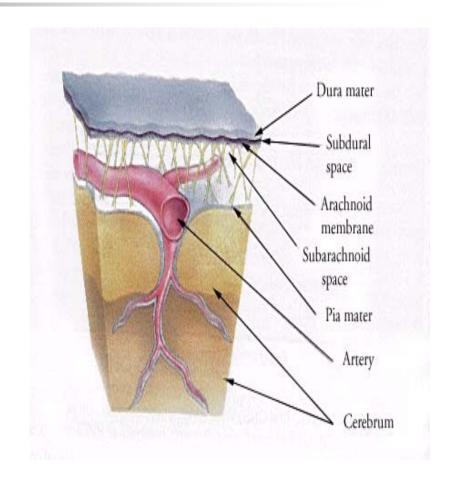


Cranial cavity, meninges, dural venous sinuses and pituitary gland

Brain & spinal cord are enveloped by three concentric membranes, which provide support and protection.

- Outermost layerduramater (pachymeninx)
- Arachnoid mater and piamater (leptomeninges)





Durater -opaque,tough,fibrous,thick ,dense composed of densely packed fasicles of collagen fibres arraanged in laminae.

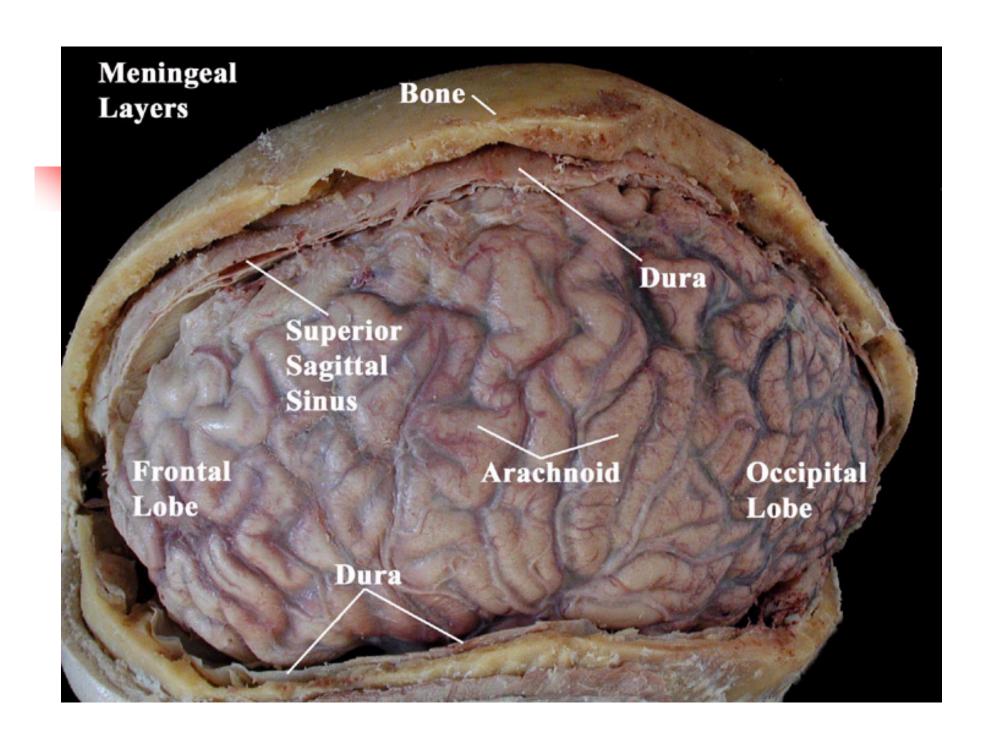
- Cranial duramater is composed of two layers
- outer endosteal layer
- Inner meningeal layer
- Characteristic features
- histologically two are different
- Duramater-acellular but it contains fibroblasts
- Meningeal layer-osteoblasts are present in this layer



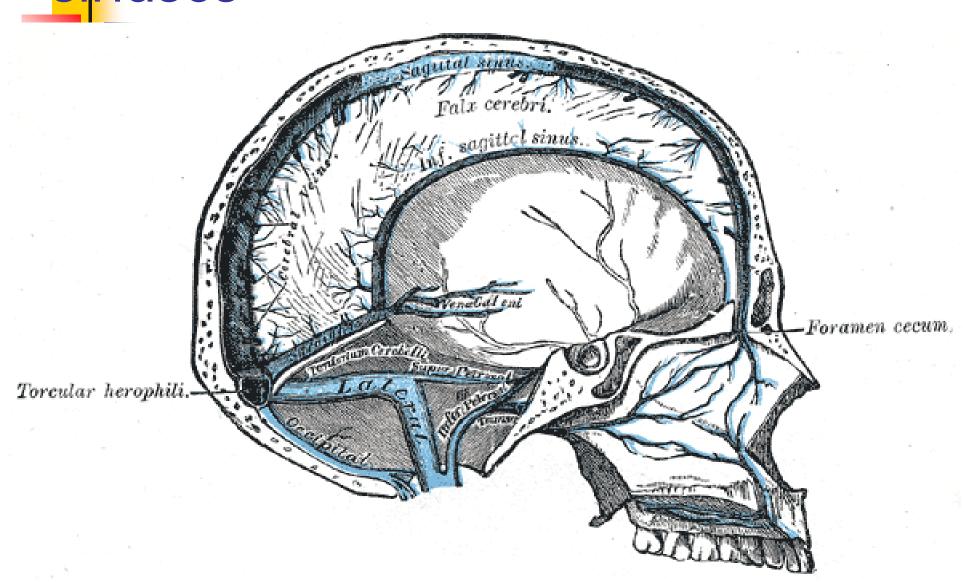
- Endosteal layer Is continuous throughout the cranial sutures and foramina with pericranium.
- the inner aspect of the duramater is closely applied to arachnoid mater over the surface of brain however physically joined at the site where either vein pass from brain into venous sinuses

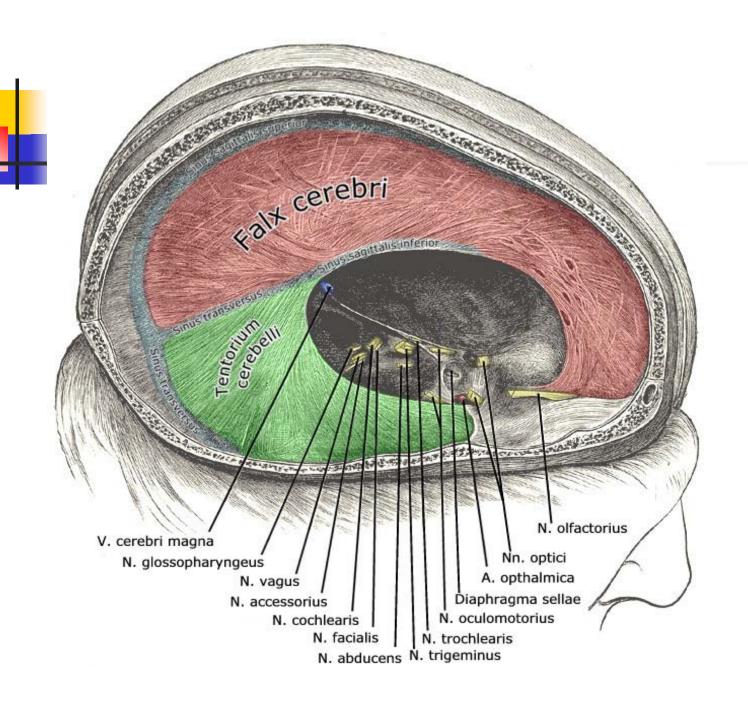
Meningeal layer Is reflected inward to form four folds

- Falx cerebri
- Tentorium cerebelli
- Falx cerebelli
- Diaphragma sellae



Folds of duramater and its venous sinuses



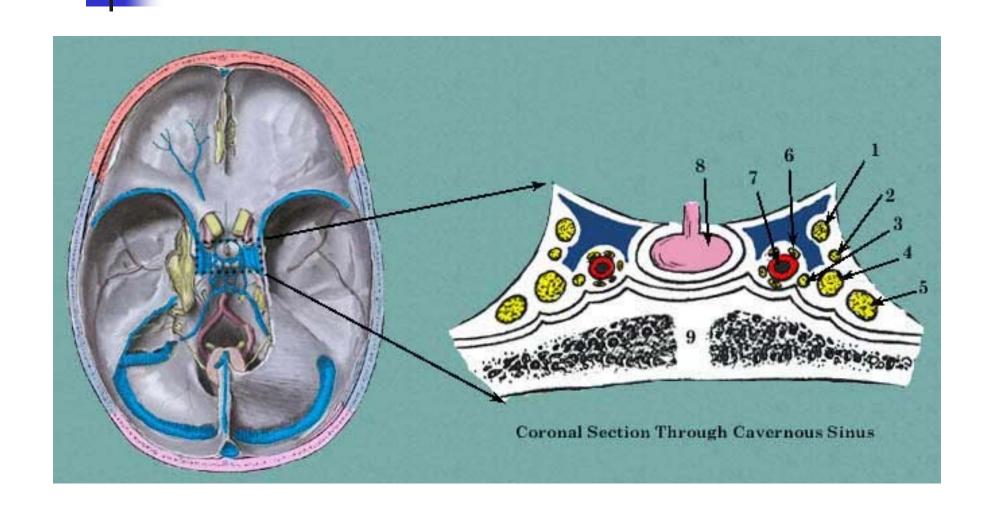




Dural venous sinuses

- Complex of venous channels lie between two layers of dura mater
- lined by endothelium
- no valves .
- walls are devoid of muscular tissue.

Cranial cavity and cavernous sinus





Subdural and extradural haematoma

Subdural haematoma

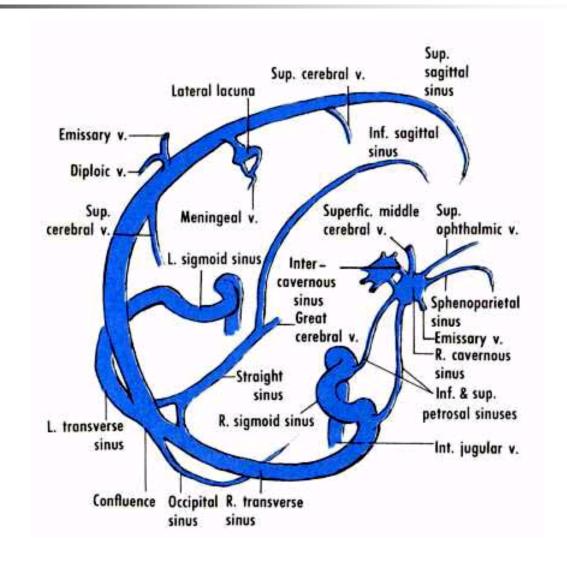
- Due to damage to small bridging veins in the space
- sUbdural haematoma tend to be biconcave in shape and more extensive.
- they will pass deep to any major dural venous sinus can not extend along the falx cerebri or tentorium cerebelli

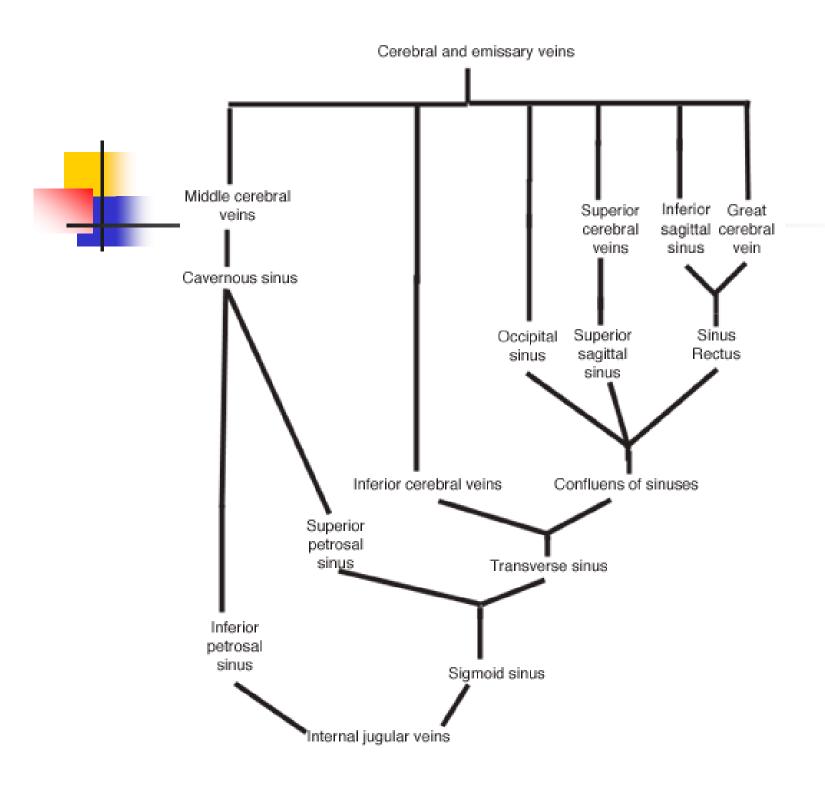
Extradural haematoma

- due to damage to any arterial vessel Commonly skull fracture
- Lentiform in shape
- Follow the line of duramater along the falx and tentorium and always superficial to deep venous sinus

classic medical emergency requiring immediate diagnosis and surgery.

Cranial venous sinuses





Cavernous sinus and its relations

