

# #DIBS BY NEXTILLO

DAILY INFORMATION BULLETIN SERVICE

**SUBARACHNOID CISTERNS**



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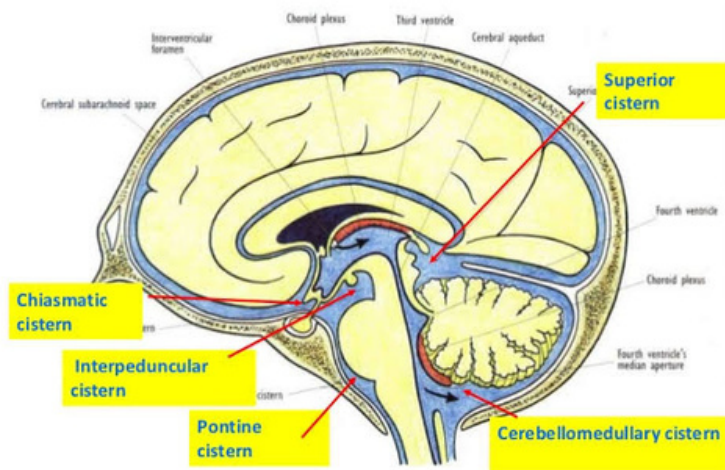
*DAILY INFORMATION BULLETIN SERVICE*

## SUBARACHNOID CISTERNS

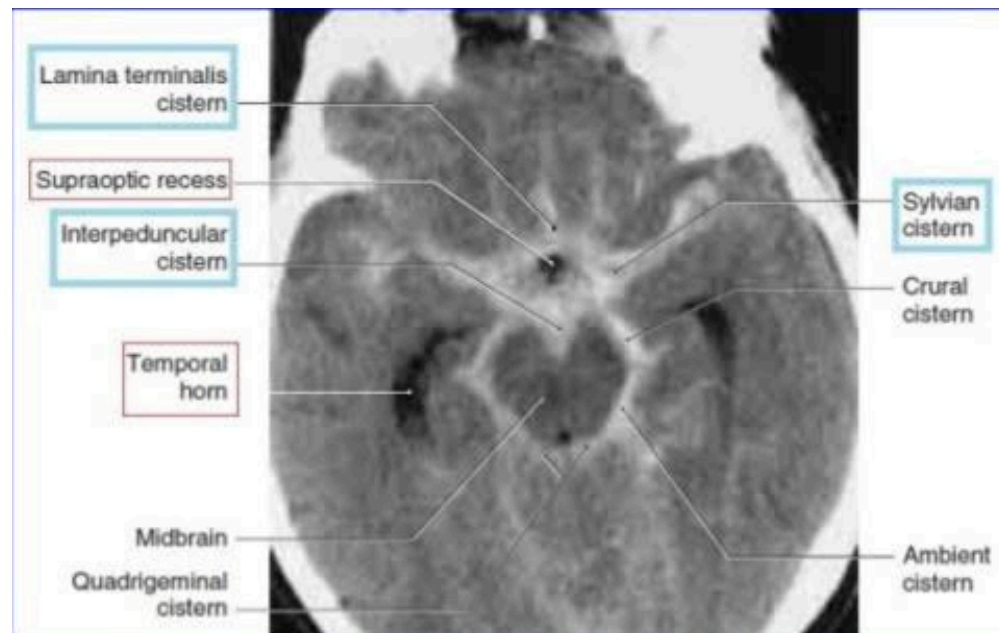
Understanding the subarachnoid cisterns is crucial for comprehending the cerebrospinal fluid (CSF) dynamics and their role in supporting and protecting the central nervous system.



# VISUAL REPRESENTATION



Median sagittal section to show the subarachnoid cisterns & circulation of CSF





# OVERVIEW

- **Definition and Location :**Subarachnoid cisterns are spaces within the subarachnoid space, filled with cerebrospinal fluid (CSF).
- **They are located between the arachnoid and pia mater layers of the meninges.**
- **CSF Circulation:** These cisterns play a vital role in the circulation and absorption of CSF throughout the central nervous system.
- **CSF is produced in the ventricles and circulates through the subarachnoid space, nourishing and protecting the brain.**
- **Clinical Significance:** Disorders affecting the subarachnoid cisterns, such as blockages or hemorrhages, can lead to increased intracranial pressure and neurological symptoms.



# MAJOR SUBARACHNOID CISTERNS

- ***Cisterna Magna ( Posterior cerebellomedullary cistern): Located at the cerebellomedullary cistern.***
- ***Communicates with the fourth ventricle and serves as a significant space for CSF flow.***
- ***Interpeduncular Cistern: Situated between the cerebral peduncles.***
- ***Envelops the circle of Willis and plays a role in the circulation of CSF around the midbrain.***
- ***Quadrigeminal Cistern ( Superior cistern ):***
- ***Surrounds the superior colliculi and pineal gland.***
- ***Houses major vessels and plays a role in supporting structures within the posterior part of the brain.***



# MCQ

## QUESTION

***Which subarachnoid cistern surrounds the superior colliculi and pineal gland?***

***Cisterna Magna***

***Interpeduncular Cistern***

***Quadrigeminal Cistern***

***Cerebellomedullary Cistern***

***ANSWER: 3. Quadrigeminal Cistern***

