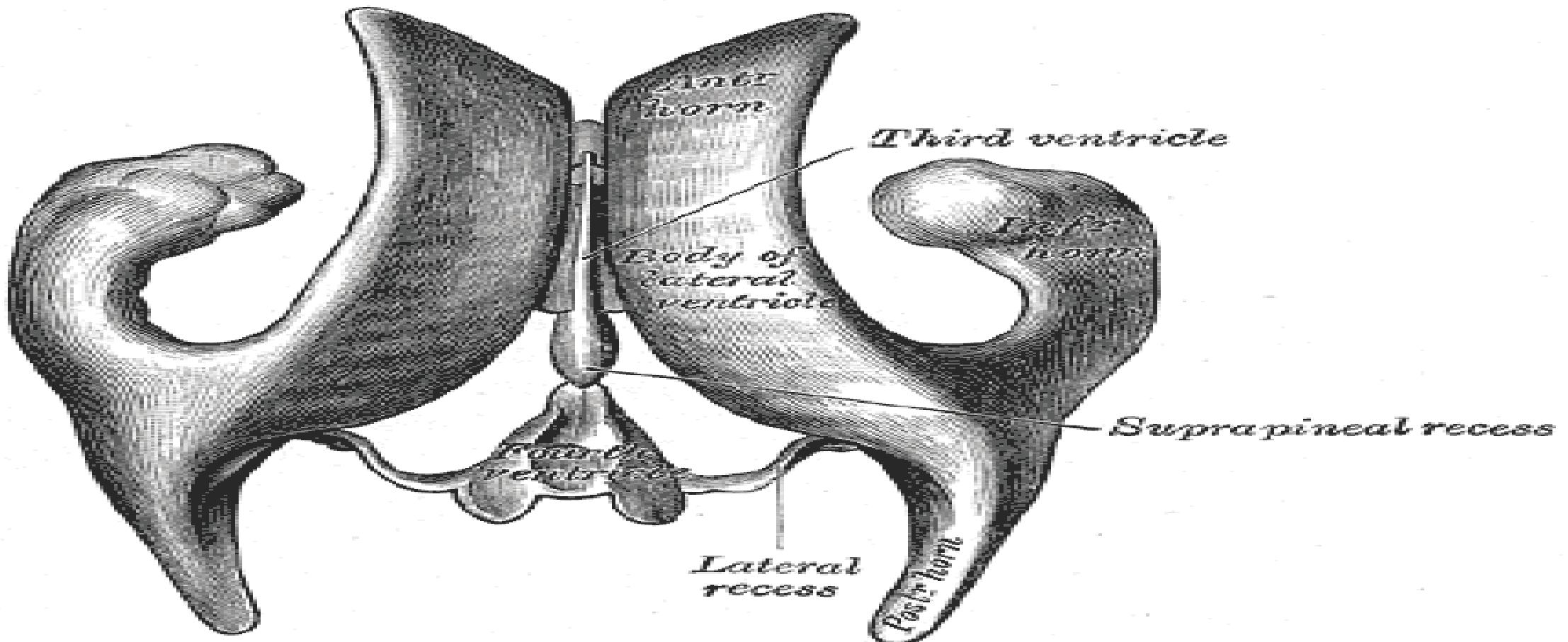


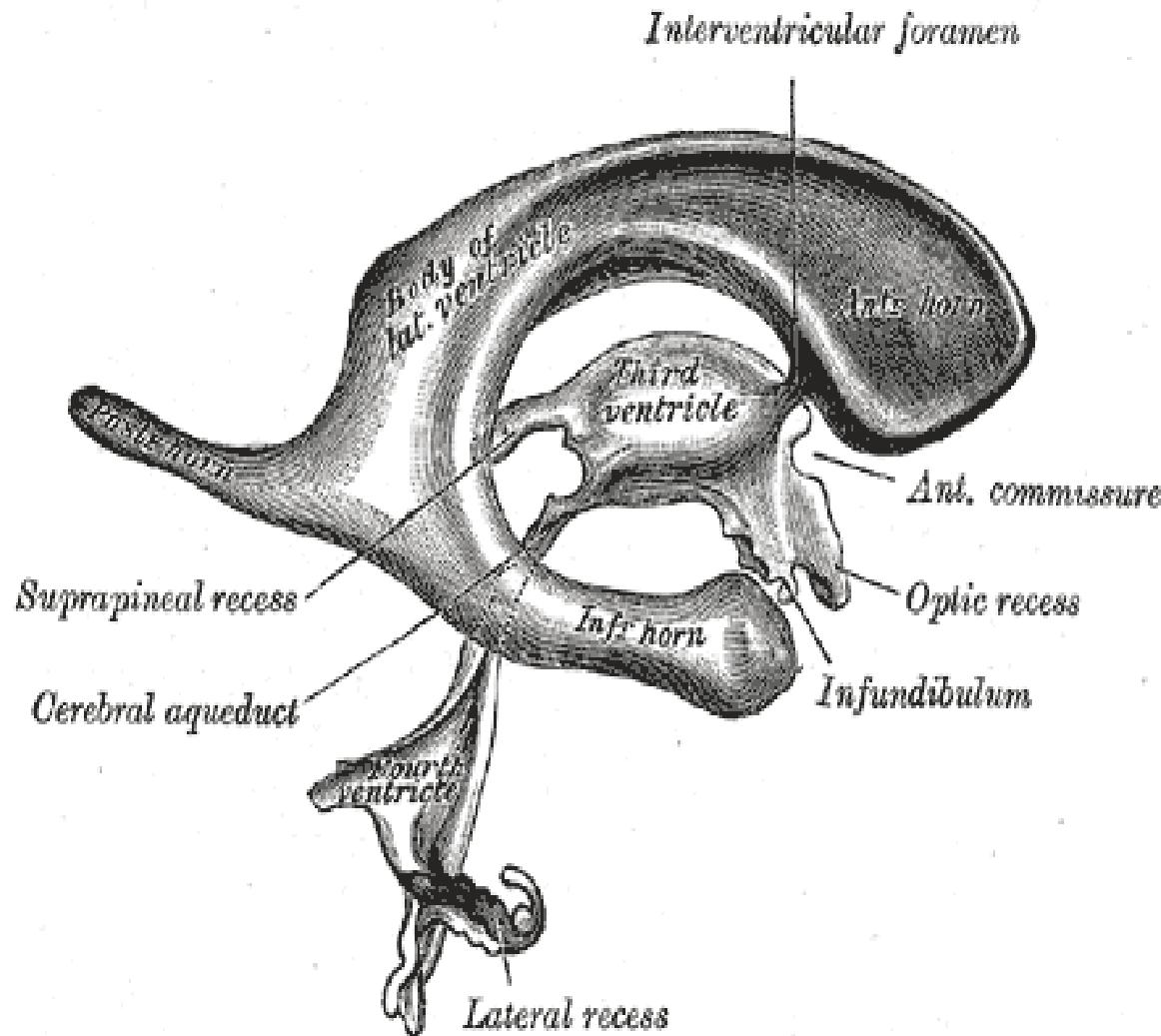
Lateral ventricles

lateral ventricles are two irregular cavities in the two cerebral hemispheres producing cerebrospinal fluids.



Each ventricle communicate with third ventricle thru interventricular foramen or foramen of monro

1. Anterior horn
2. Posterior horn
3. Body
4. Inferior horn



Anterior horn: part above the foramen of monro lies in frontal lobe

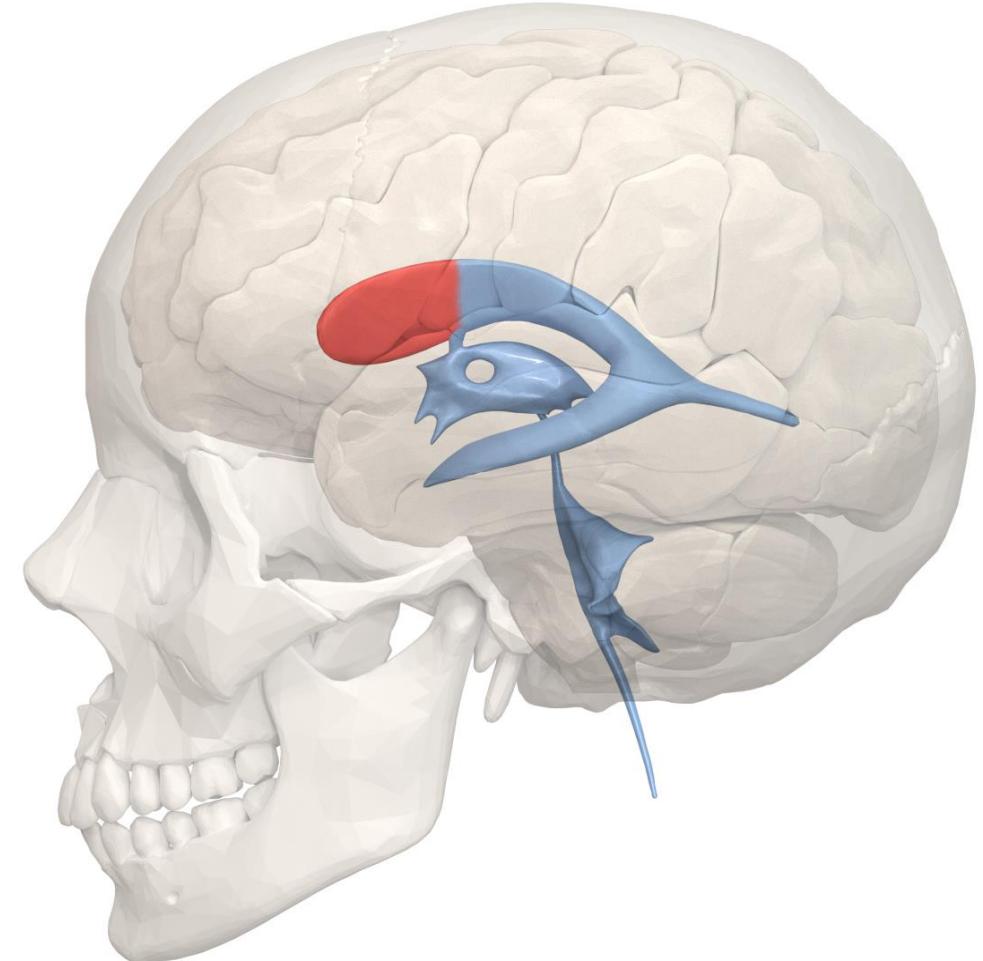
Boundaries of anterior horn of lateral ventricle.

Roof: 1. corpus callosum

floor: 1. head of caudate nucleus
2. rostrum
3. anterior commissure

Medial wall : 1.septum pellucidum
2.Column of fornix

Anter:1. post surface of corpus callosum
2.Rostrum of corpus callosum



Body: part from foramen of monro to splenium of corpus callosum. Parietal lobe

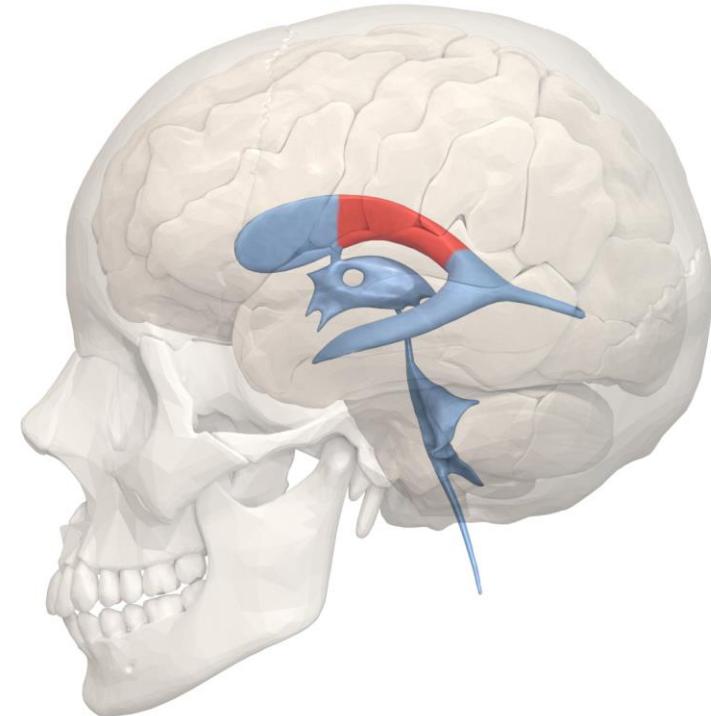
Boundaries of body of lateral ventricle.

Roof: 1.under surface of splenium of corpus callosum

floor: 1. body of caudate nucleus
2. thalamus

Medial wall :1.septum pellucidum
2. body of fornix

Floor: 1.striate terminalis
2.thalamostriate vein



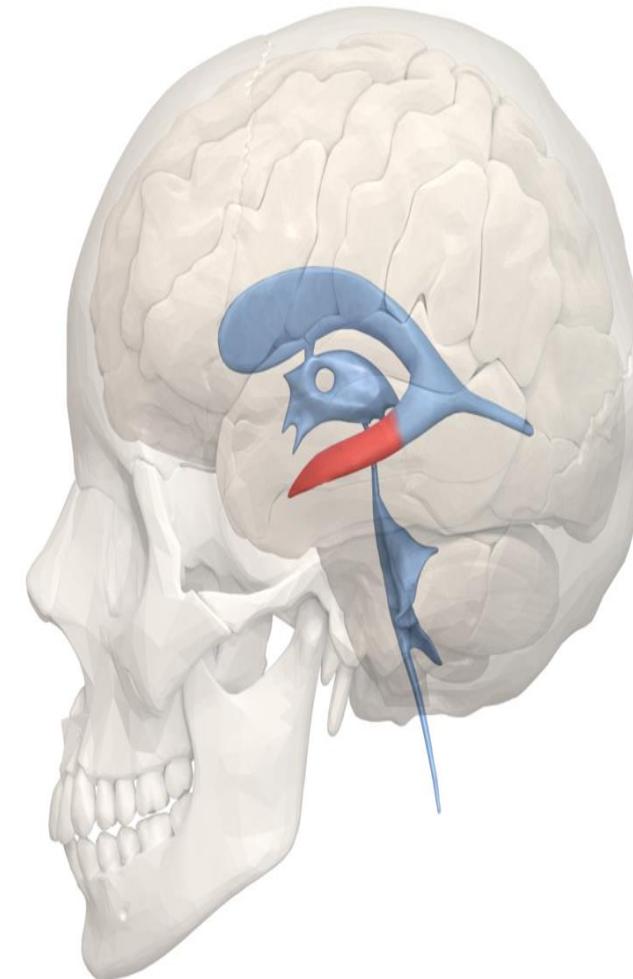
Inferior horn: Behind and lower part of posterior horn

Boundaries of inferior horn of lateral ventricle.

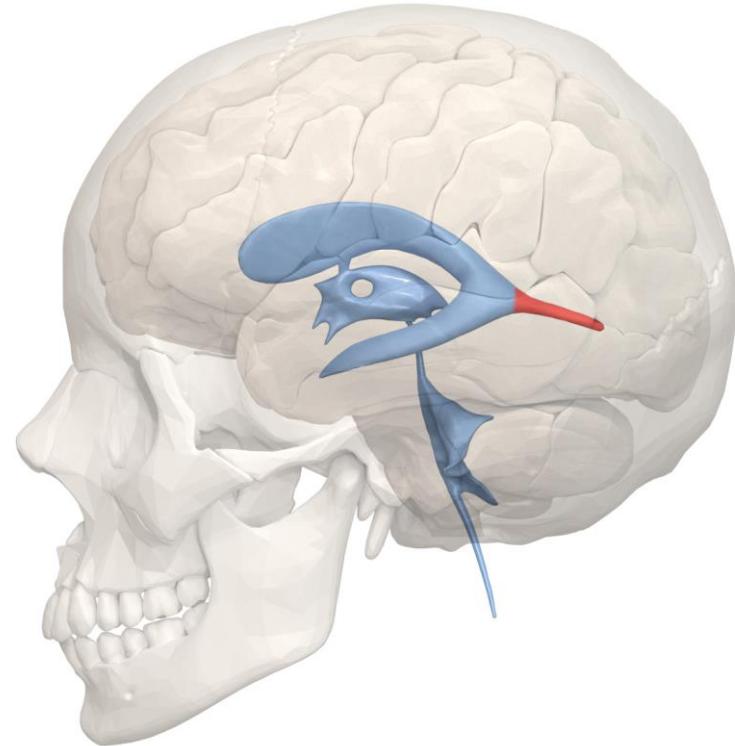
Roof: 1. tapetum(white fibers)
 2. caudate nucleus tail

floor: 1. collateral eminence
raised by collateral sulcus
 2. hippocampus

lateral wall : 1. striate terminalis
 2. emegdaloid body



Posterior horn lies in the occipital lobe



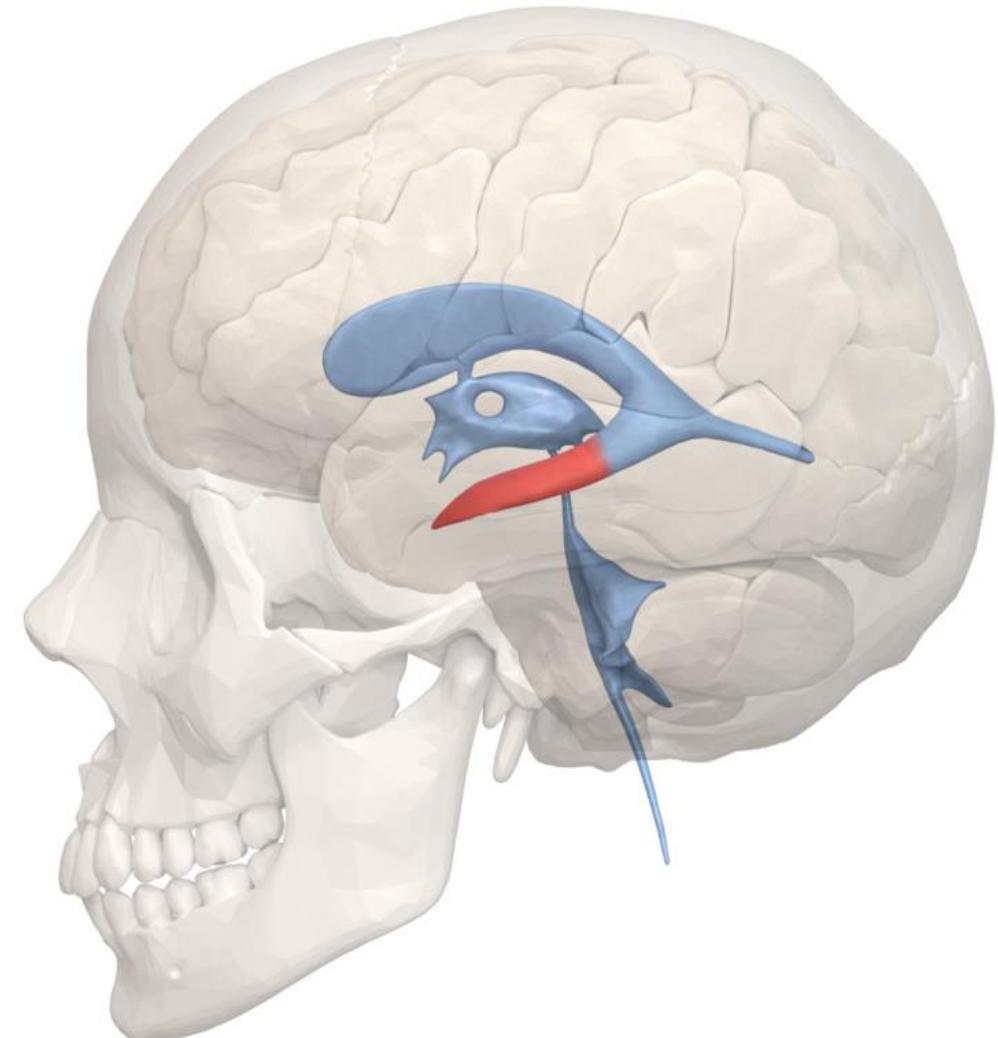
Inferior horn: Behind and lower part of posterior horn

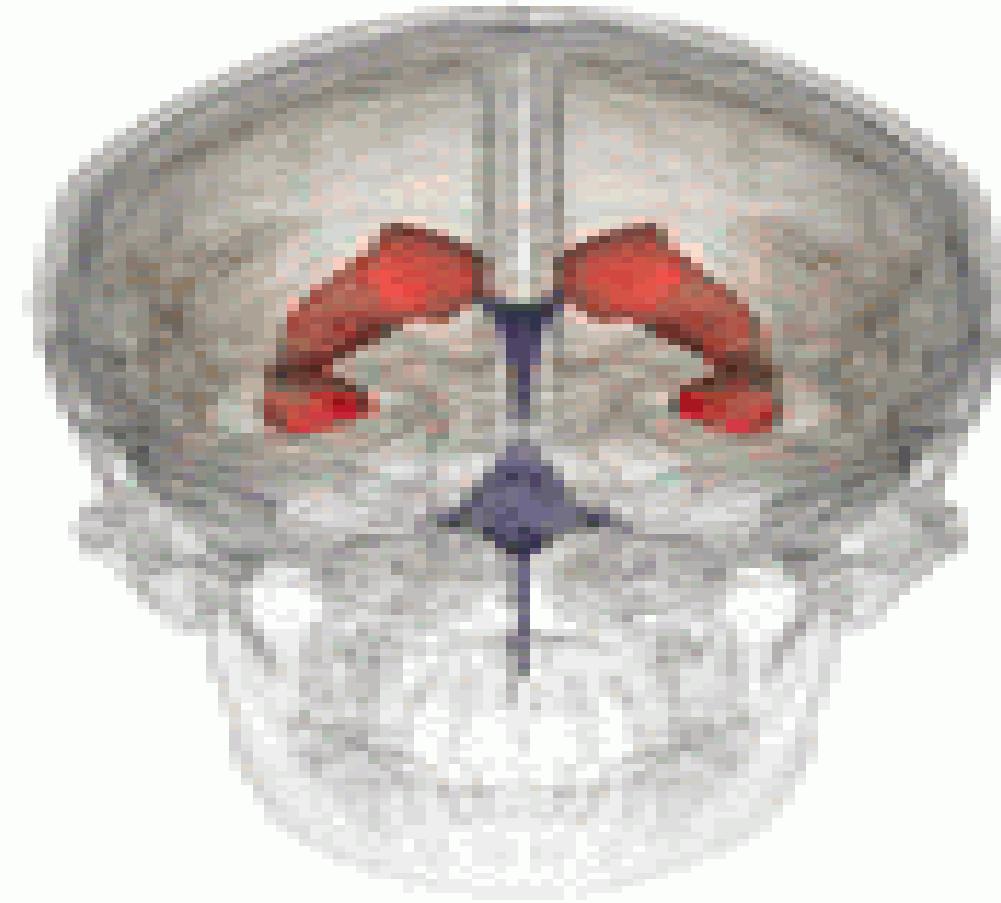
Boundaries of inferior horn of lateral ventricle.

Roof: 1. tapetum(white fibers)
 2. caudate nucleus tail

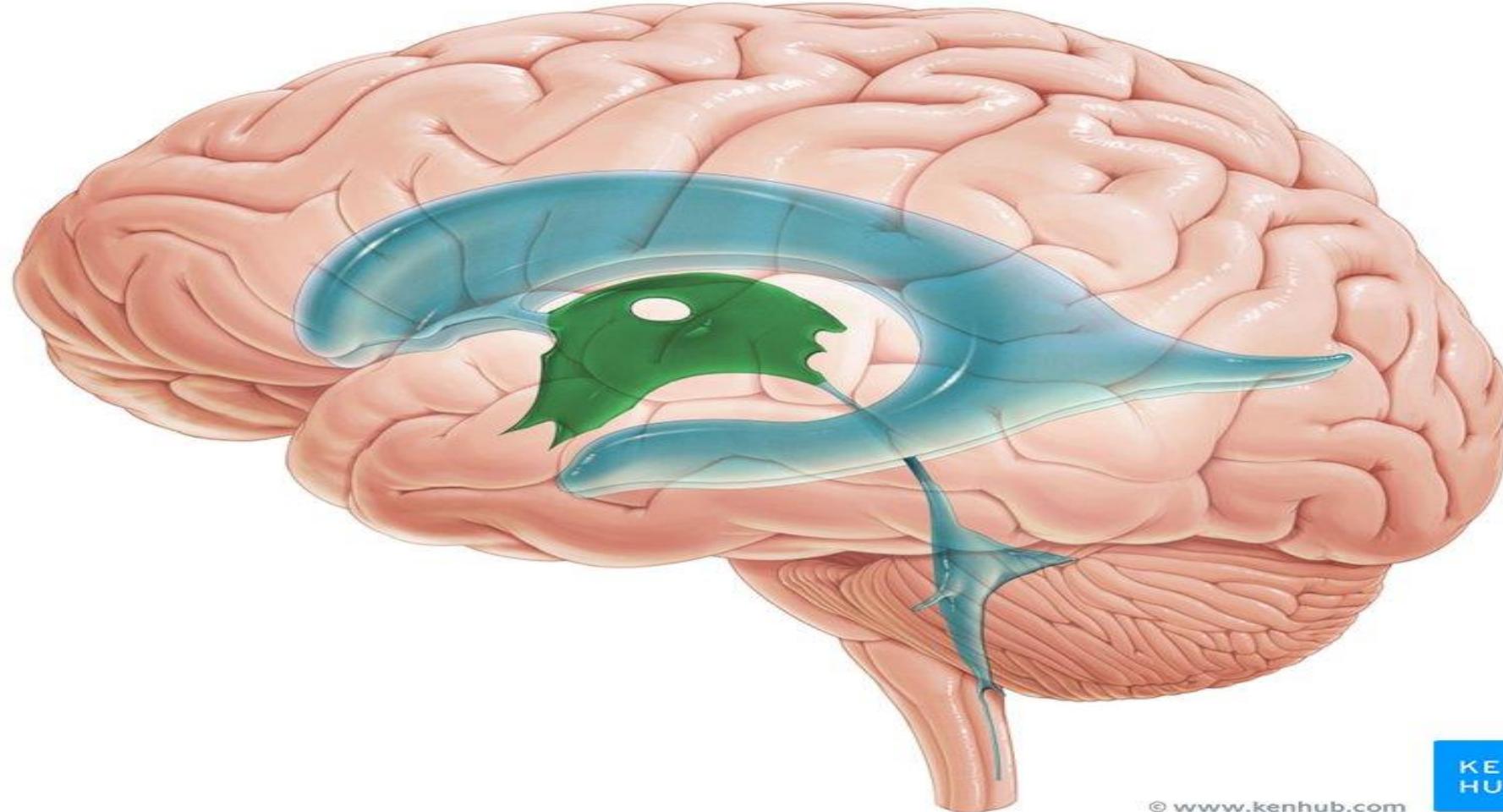
floor: 1. collateral eminence
raised by collateral sulcus
 2. hippocampus

lateral wall : 1. striate terminalis
 2. emegdaloid body





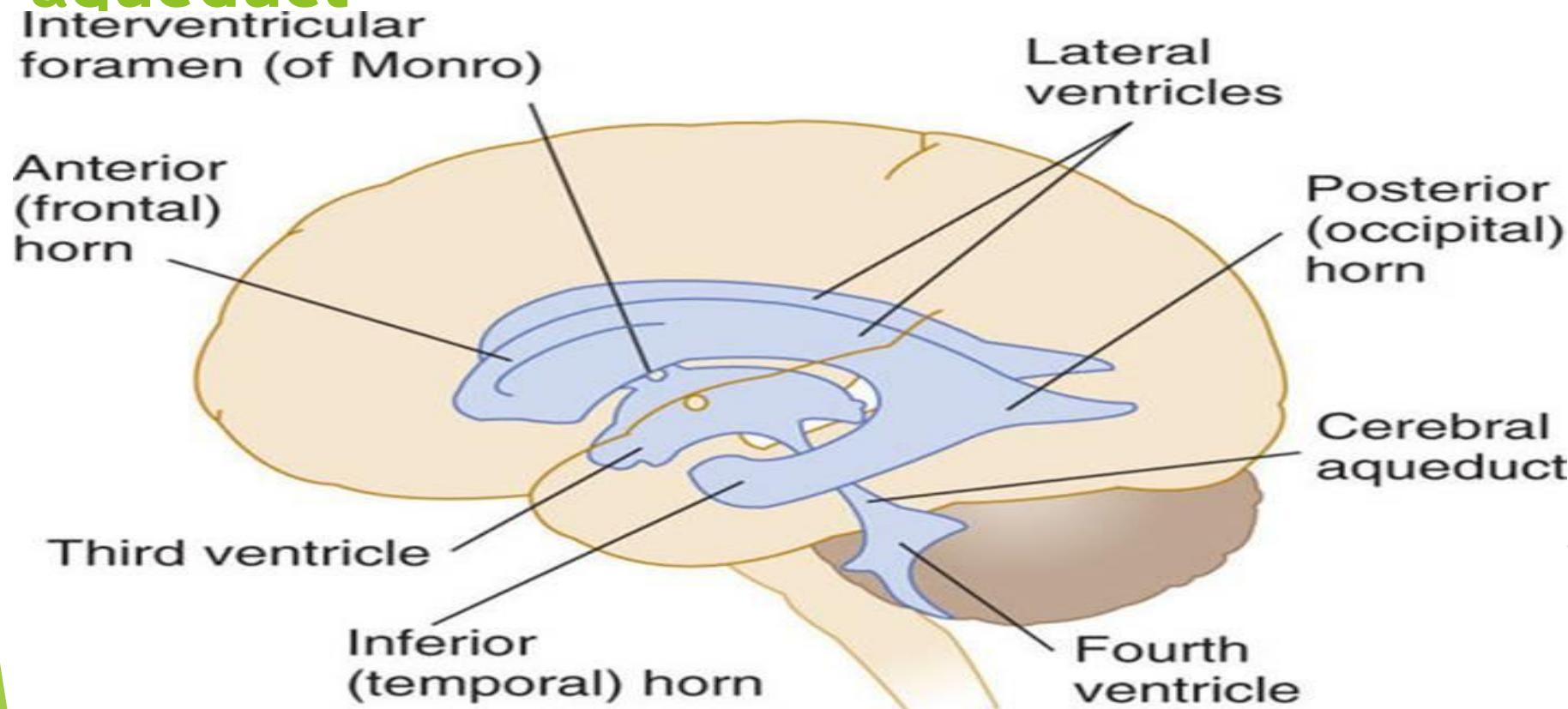
Third Ventricle: medial cleft between the two thalamus



Communications:

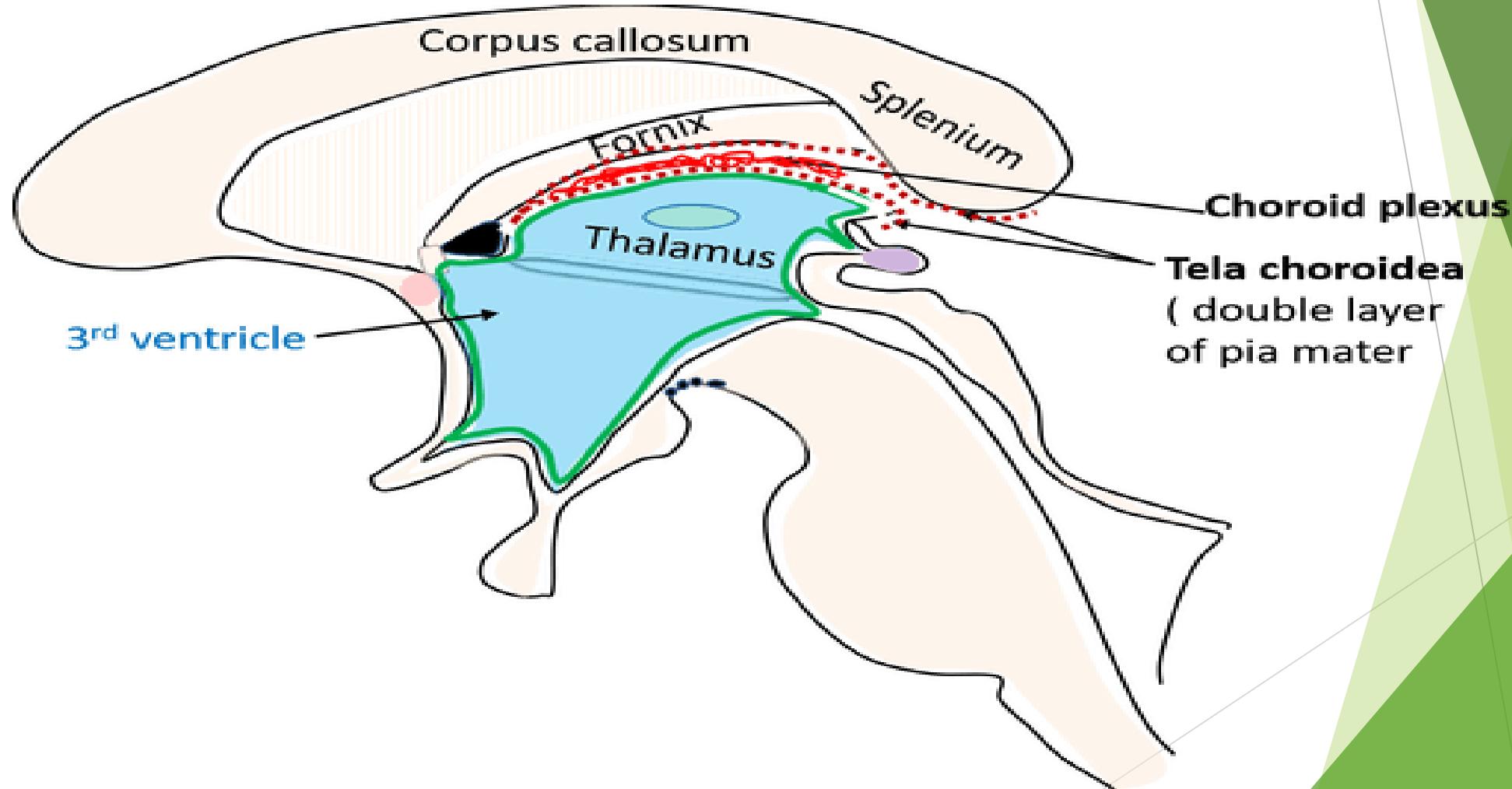
Anterosuperior: lateral ventricle and foramen of monro

Posteriorly: 4th ventricle and cerebral aqueduct



Boundaries:

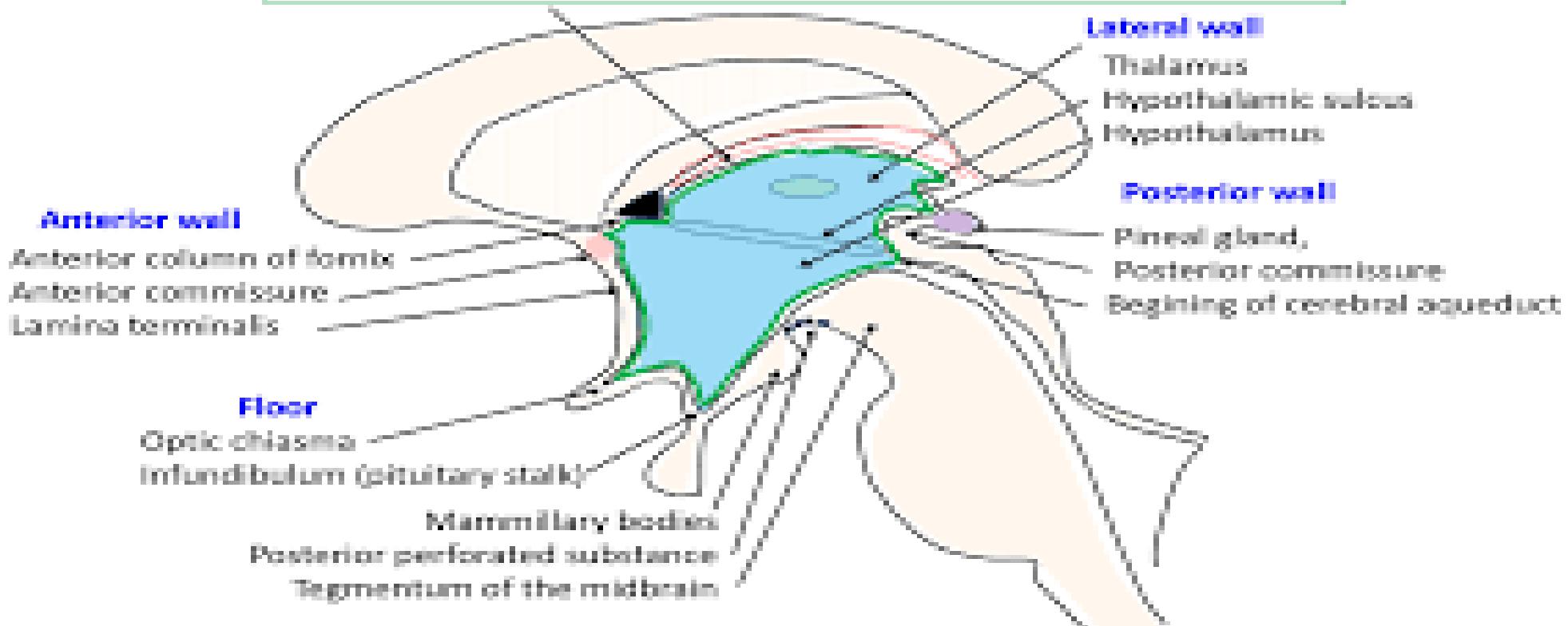
ROOF: Ependyma, under surface of Tela Choroida



Floor:

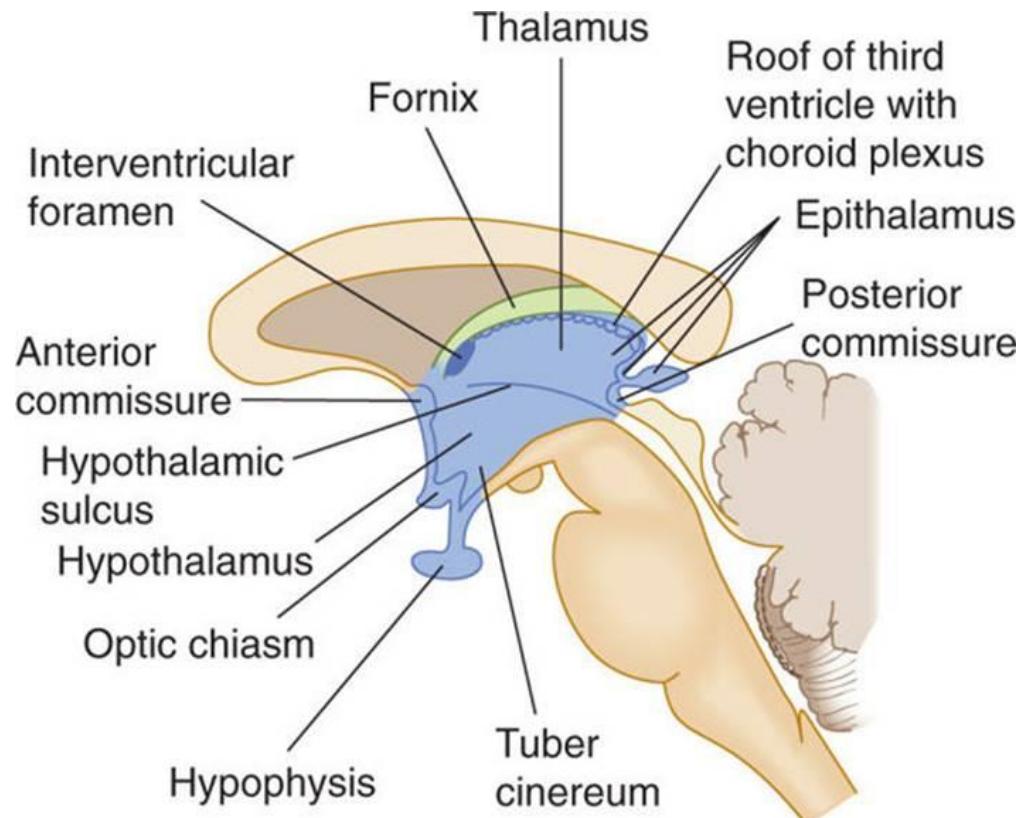
1. Optic chiasma
5. Tegmentum of brain
2. Pituitary stalk
3. Mamillary bodies
4. Posterior perforating substance

Floor: ependyma that stretches across the upper limits of two thalam.



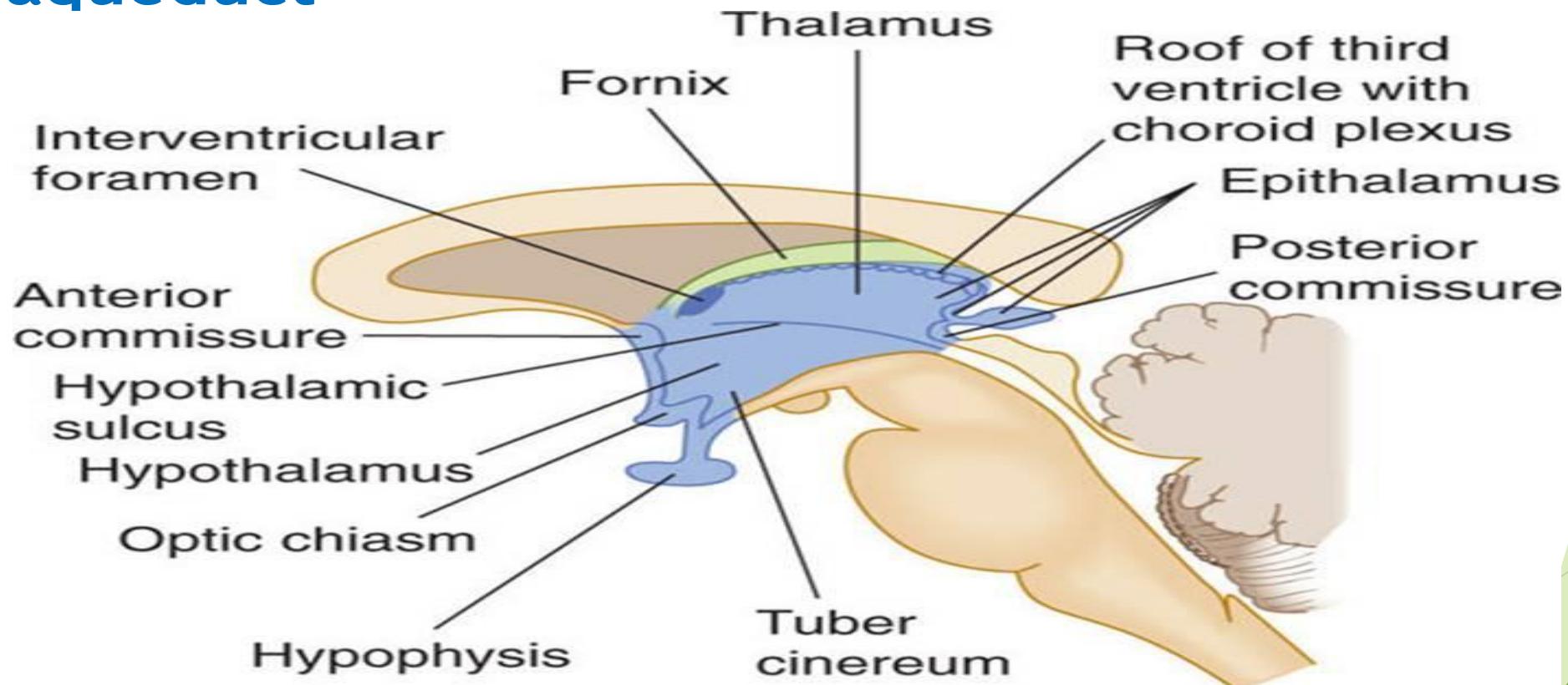
Lateral wall:

1. Medial surface of thalamus, 2. Hypothalamus,
3. Hypothalamic sulcus



Posterior wall:

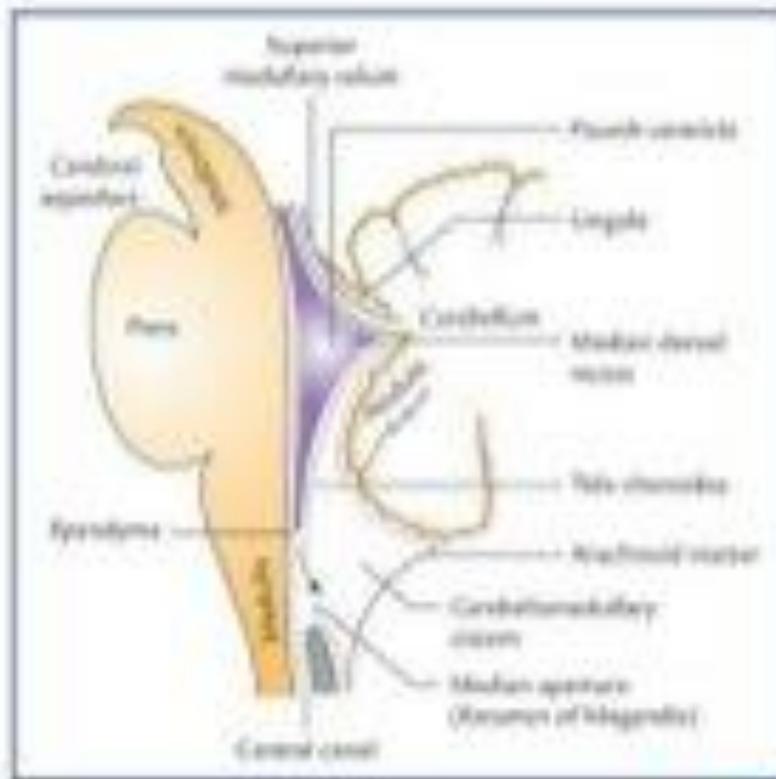
1. Posterior commissure, 2. Habenular commissure, 3. Pineal body, 4. Cerebral aqueduct



- tent-like cavity of hindbrain
- situated in the posterior cranial fossa.
- triangular outline in sagittal section and appears rhomboidal in shape in horizontal section.

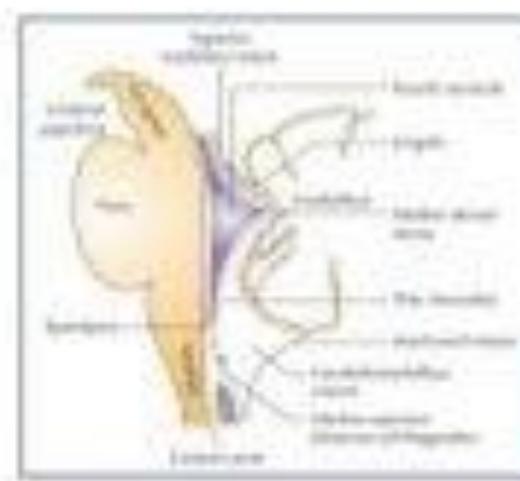


- Behind the pons and the upper part of medulla oblongata.
- in front of the cerebellum



ANGLES

- Superior angle is continuous above with the **cerebral aqueduct of midbrain**.
- Inferior angle is continuous below with the **central canal** of the closed part of the medulla oblongata.
- Two lateral angles - lateral recess.



BOUNDARIES

- On each side, the fourth ventricle is bounded,
- **Inferolaterally by inferior cerebellar peduncle, supplemented by gracile and cuneate tubercles, and**
- **Superolaterally, by superior cerebellar peduncle**

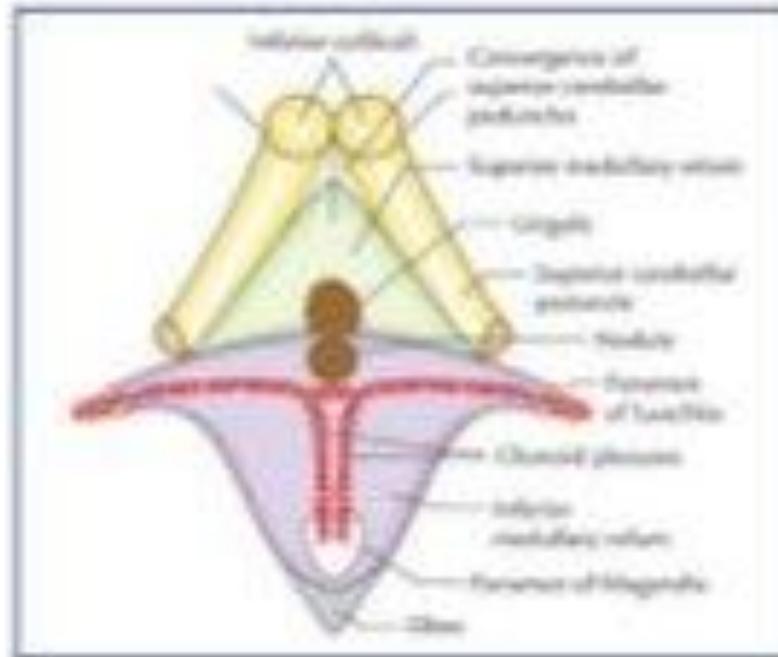


ROOF

- *Upper part:-*

convergence of two superior cerebellar peduncles and

a thin sheet of white matter, the **superior medullary velum**.



- Lower part:

- Inferior medullary velum.
- Median aperture of Magendie.
- T-shaped choroid plexus.



FLOOR (RHOMBOID FOSSA)

- rhomboid in shape (diamond-shaped).
- formed by posterior surfaces of the pons and the upper part of the medulla.

- Three parts:

- A] Upper triangular part - The posterior surface of the pons.
- B] The lower triangular part - the upper part of the posterior surface of the medulla.
- C] The intermediate part at the junction of the medulla and pons.