

وسهلا



أهلا

يُمنع أخذ السلايدات بدون
إذن المحرر واي اجراء
يخالف ذلك يقع تحت طائلة
المسؤولية القانونية
جميع المعلومات للاستخدام
التعليمي فقط

الأستاذ الدكتور يوسف حسين

كلية الطب - جامعة مؤتة - الأردن

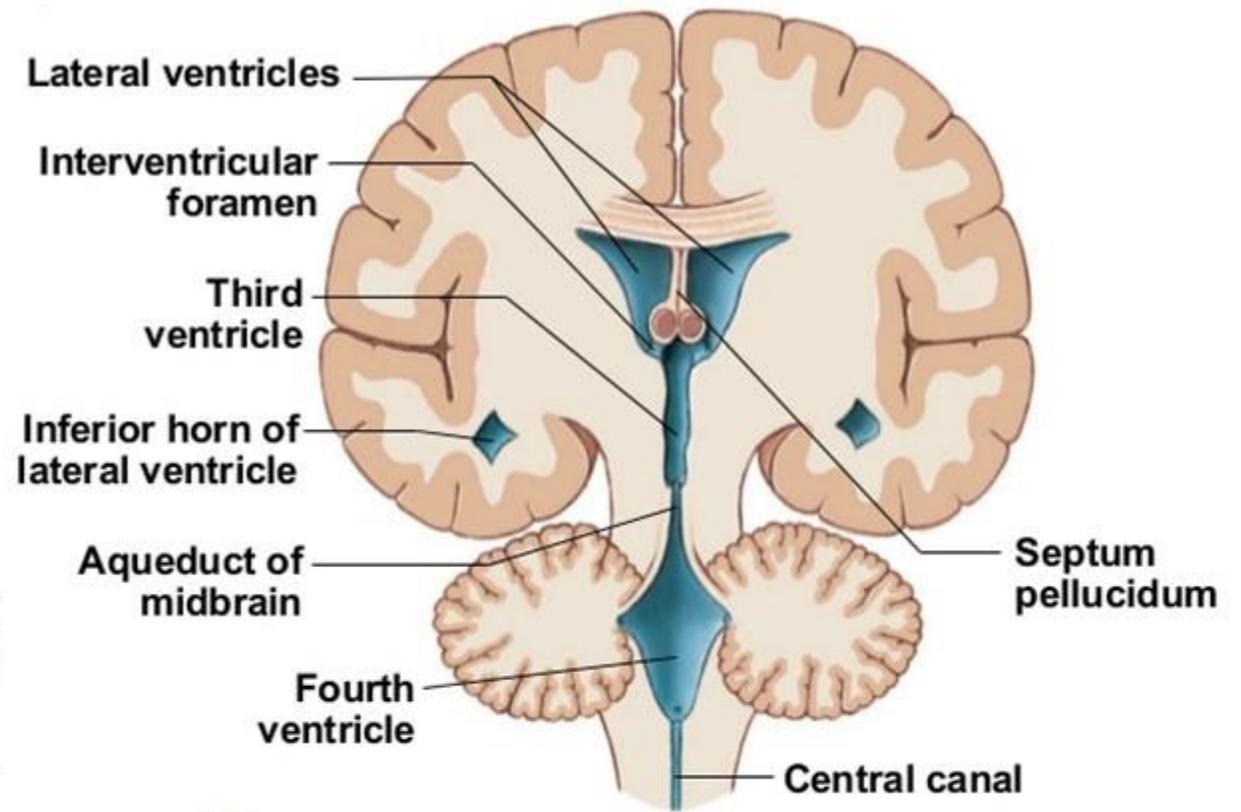
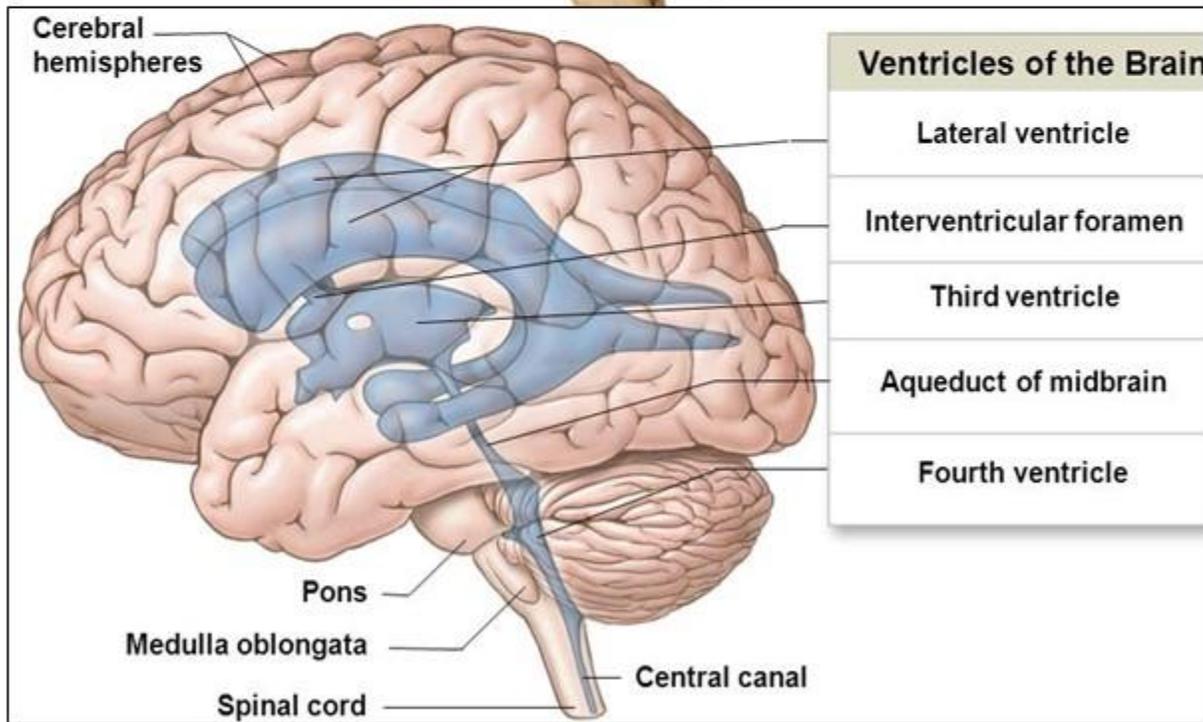
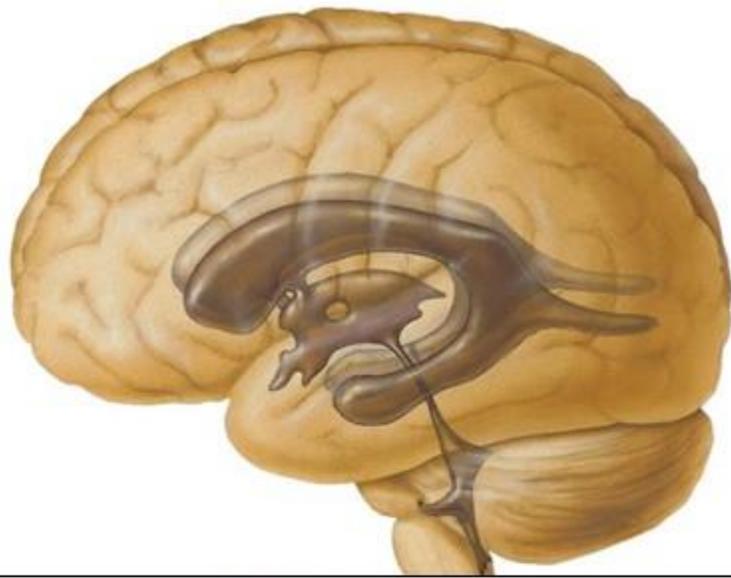
دكتورة من جامعة كولونيا المانيا

Prof. Dr. Youssef Hussein Anatomy - YouTube

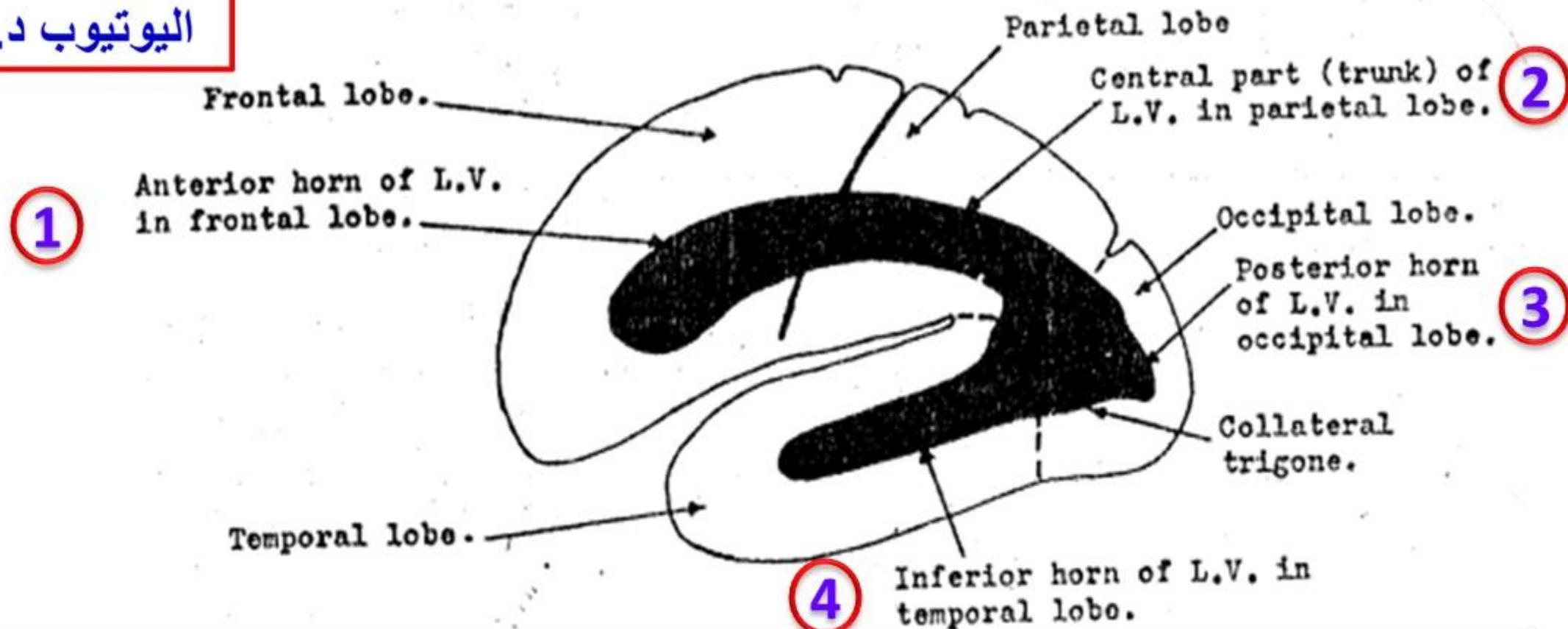
الواتس (أي استفسار)
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Lateral Ventricle

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d Diagrammatic coronal section showing the interconnections between the ventricles



**** Site;** It is the cavity of the cerebral hemisphere, one on each side.

**** Connections;**

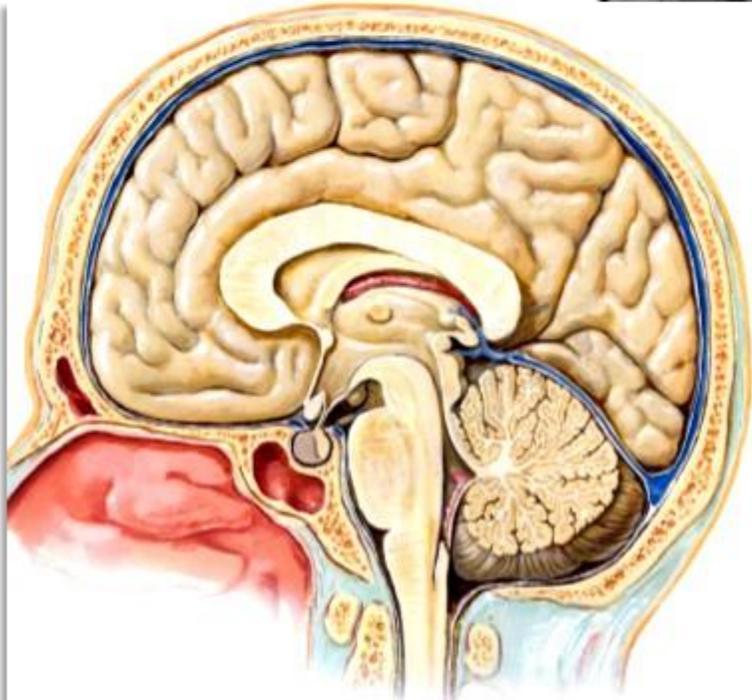
-The anterior horn is connected to the 3rd ventricle by the interventricular foramen (foramen of Monro).

Anterior horn Coronal

Anterior horn of L.V.

Medial

Septum pellucidum



Roof

Corpus callosum (Genu)

Lateral

Caudate

nucleus (head)

Internal capsule

Floor

Rostrum of

Lentiform nucleus

corpus callosum.

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- **Boundaries of the central part of the lateral ventricle (Coronal)**

1- Roof, body of corpus callosum.

2- Medial wall; septum pellucidum.

3- Floor and lateral wall: from medial to lateral;

a- Body of fornix.

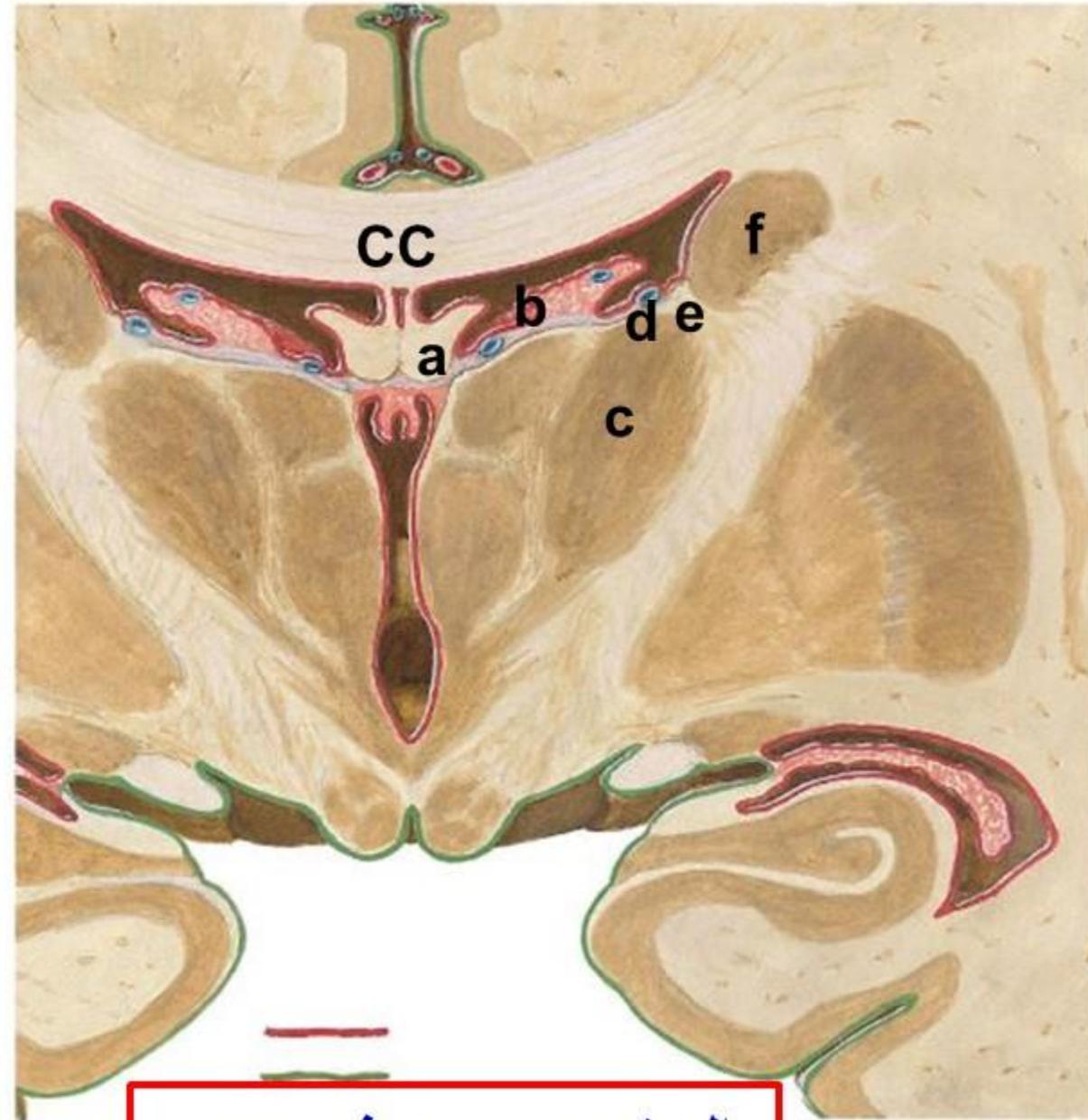
b- Choroid plexus of the lateral ventricle.

c- Superior surface of the thalamus.

d- Thalamostriate vein.

e- Stria terminalis

f- Body of caudate nucleus.



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Inferior Horn coronal

1- Lateral wall, tapetum of corpus callosum.

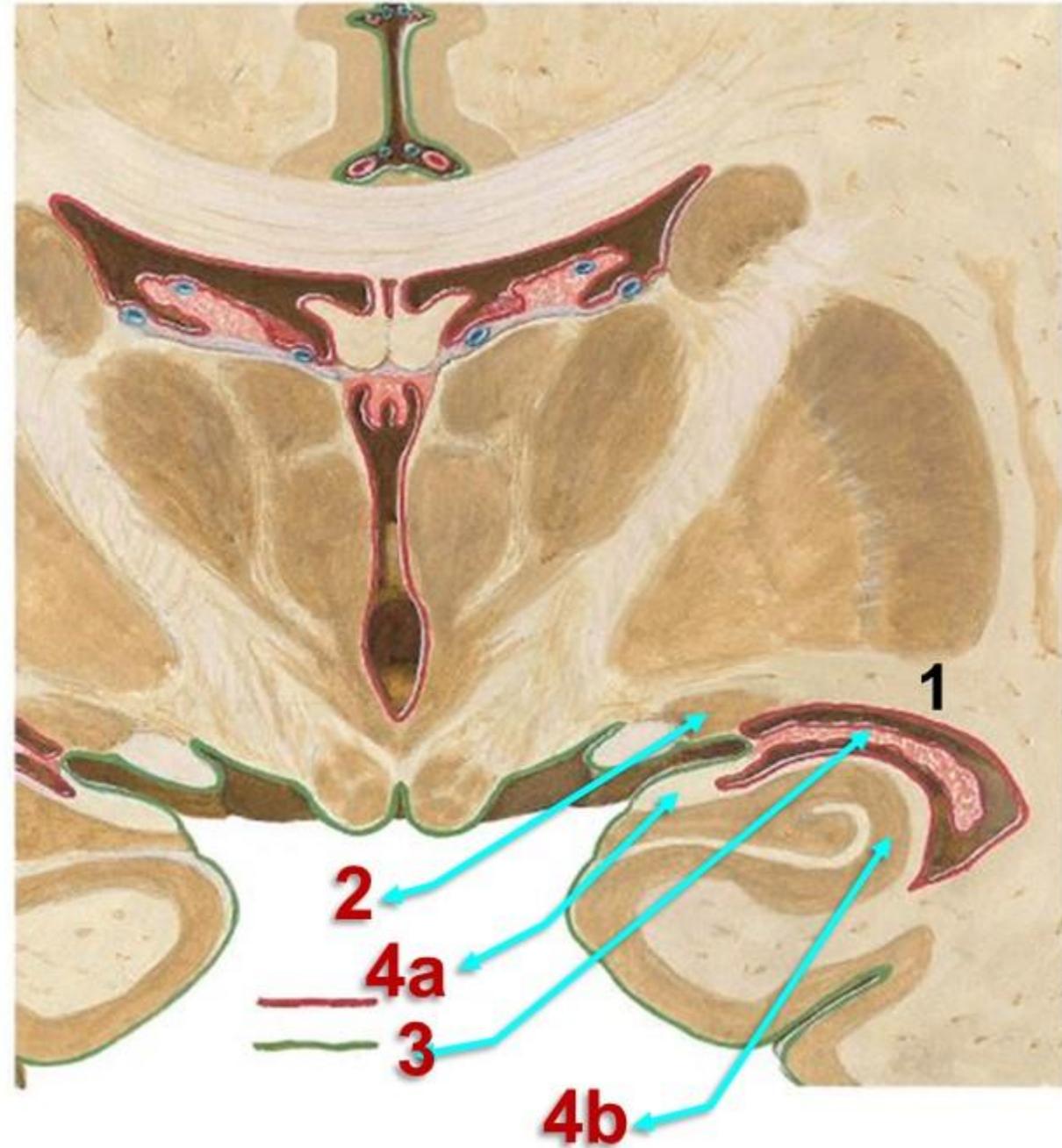
2- Roof, Tail of caudate nucleus & Stria terminalis.

3- Medial wall: choroid fissure invaginated by choroid plexus.

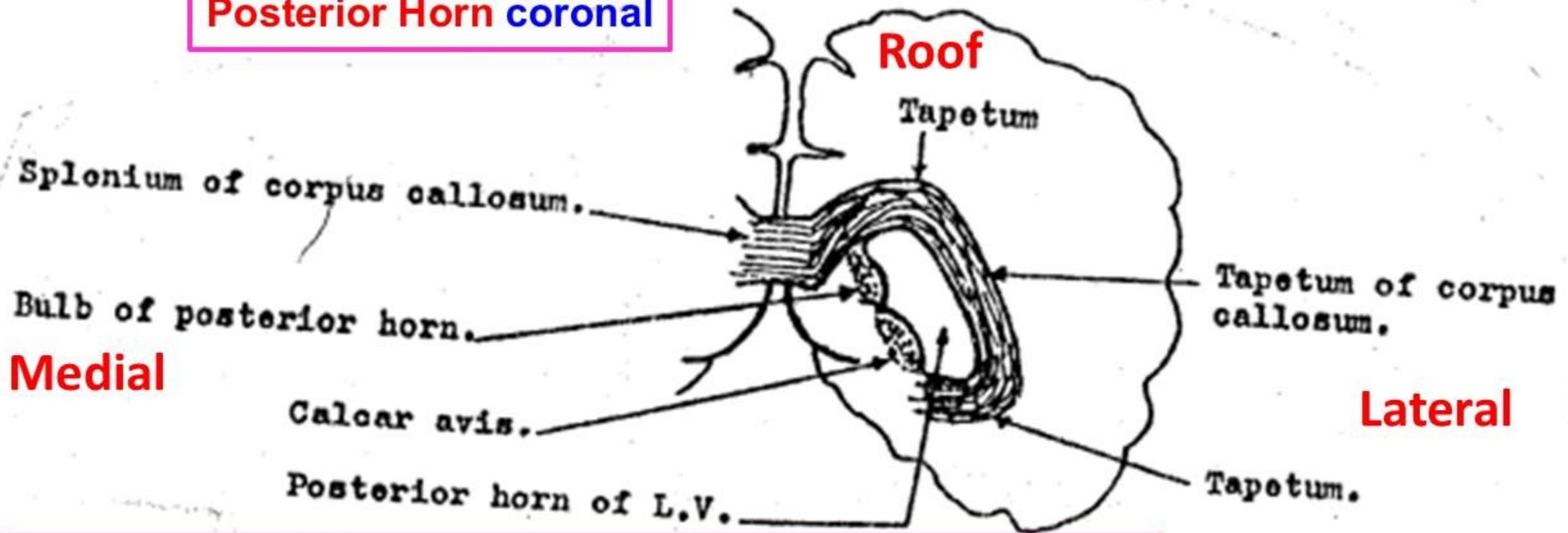
4- Floor;

a- Fimbria of the hippocampus.

b- Hippocampus



Posterior Horn coronal



1- Roof, lateral wall and floor; tapetum of corpus callosum.

2- Medial wall; shows 2 elevations;

a- Bulb of posterior horn (upper); is formed by forceps major of corpus callosum.

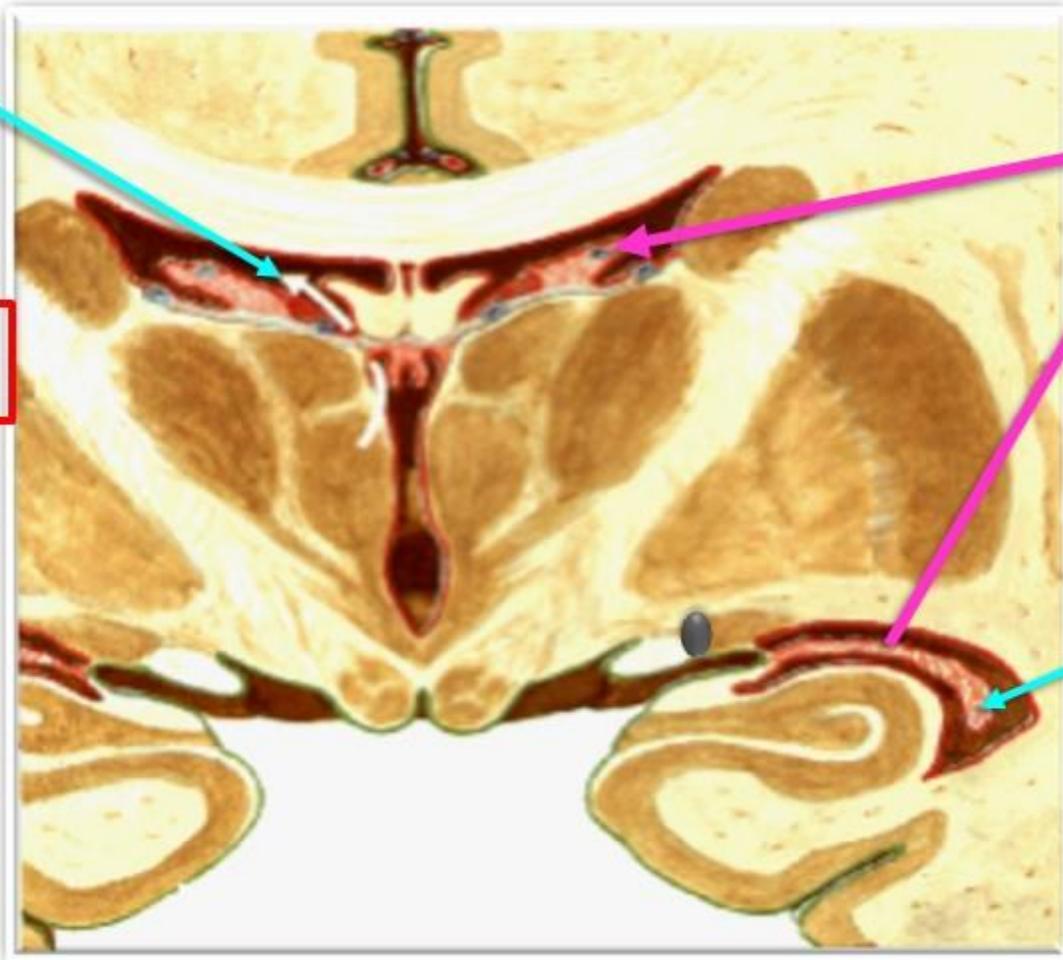
b- Calcar avis (lower); produced by the calcarine sulcus.

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The central part
of the lateral
ventricle

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Choroid plexus
of the lateral
ventricle



Choroid Plexus of
the Lateral
Ventricle

The inferior horn
of the lateral
ventricle

- **Tela choroidea**; double-layer of pia matter contains choroid plexuses
- **Choroid plexus** in **central part** is formed by **posterior choroidal branches of posterior cerebral artery**.
- **Choroid plexus** in **inferior horn** is formed by **anterior choroidal branches of internal carotid artery**.



C.S.F.

(Cerebrospinal Fluid)

Circulation

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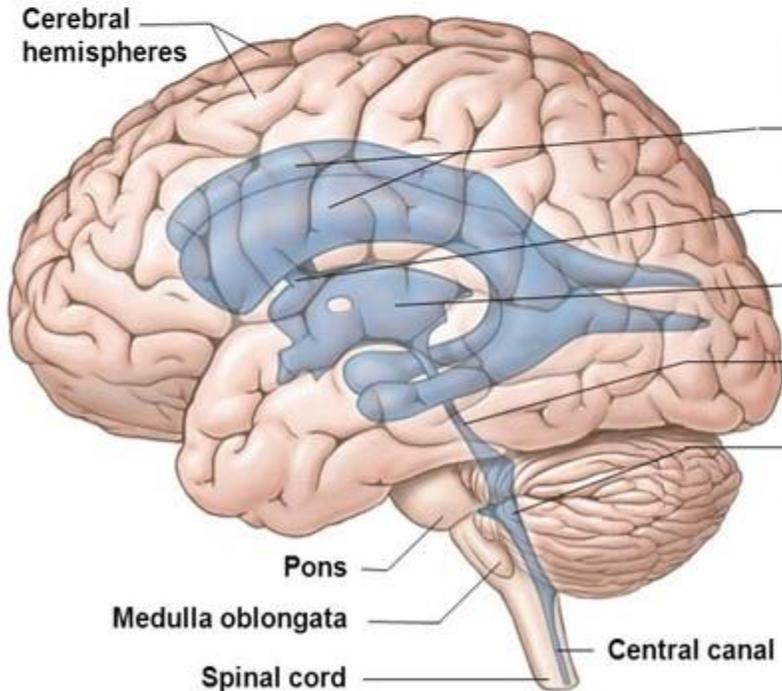
- **Functions of cerebrospinal fluid**

- 1- Protects the brain and spinal cord from the external shocks and trauma.
- 2- Supports the brain and spinal cord.
- 3- Regulation of the intracranial pressure.
- 4- Used for diagnosis of some diseases (Lumbar puncture)

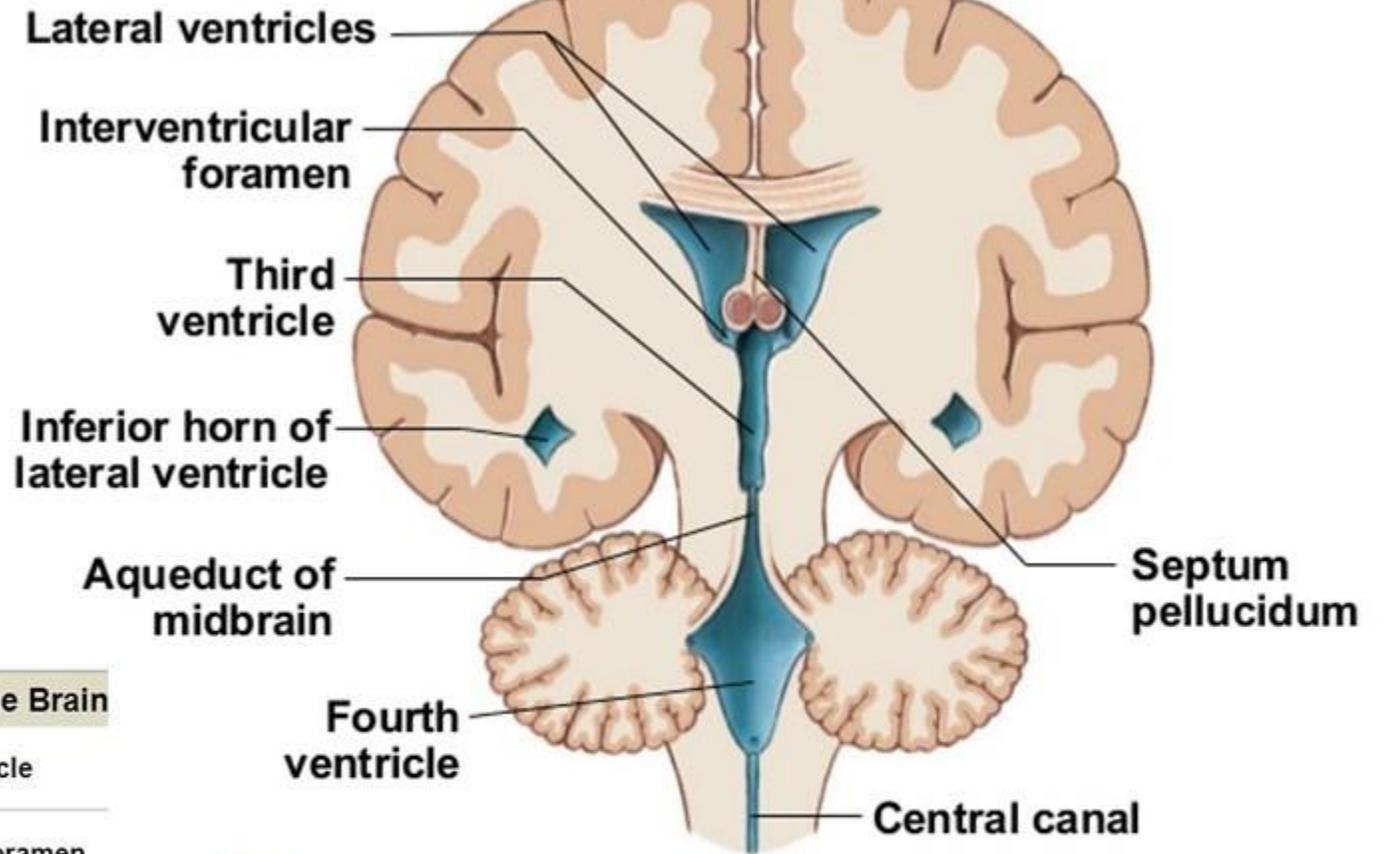
- **Characters of the C.S.F.**

- 1- **Appearance**; clear watery fluid. If it becomes turbid this indicates meningitis.
- 2- It is **formed by choroid plexuses in the brain ventricles**
- 3- **Amount**, is about 120-150 ml
- 4- **Secretion** about 20 ml per hour

Ventricular system (lateral view)



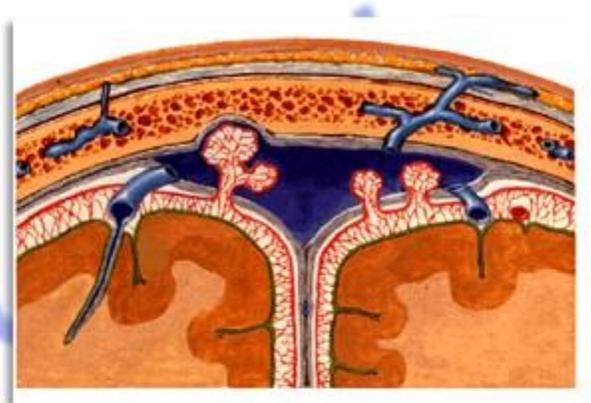
Ventricles of the Brain
Lateral ventricle
Interventricular foramen
Third ventricle
Aqueduct of midbrain
Fourth ventricle



d Diagrammatic coronal section showing the interconnections between the ventricles

• C.S.F. Circulation

- **C.S.F.** is filtrated by the choroid plexus of the lateral ventricles on each side → interventricular foramina of Monro → 3rd ventricle (more C.S.F. is added by the choroid plexuses) → cerebral aqueduct of Sylvius → 4th ventricle (more C.S.F. is added by the choroid plexuses) → 3 apertures in the roof of the 4th ventricle (2 lateral foramina of Luschka and median foramen of Magendi) → subarachnoid space.



- Some of the C.S.F. passes down through the central canal of the closed medulla oblongata.

3- Absorption; C.S.F. was filtrated by arachnoid villi and granulations into the superior sagittal sinus.

N.B:- Pulsation of the large arteries present in the subarachnoid space, helping the circulation of the C.S.F.

https://www.youtube.com/channel/UCVSNqbibj9UWYaJdd_cn0PQ

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Questions

<https://www.youtube.com/@ProfDrYoussefHusseinAnatomy/playlists>