

# CNS-Anatomy

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Archive

Lecture 10

Cerebral White Matter

Edited by:

banan alkhawaldeh

**1. The commissural fibers:**

- A. Connect cerebral cortex with lower centers.
- B. Connect parts of cerebral cortex in the same hemisphere.
- C. Coordinate the activities of the right and left cerebral hemispheres.
- D. Connect parts of cerebral cortex of one hemisphere with the same part of the opposite side.
- E. Connect the lower centers with the cerebral cortex.

**Answer: C: Coordinate the activities of the right and left cerebral hemispheres.**

**2. All of the following are parts of the corpus callosum, EXCEPT:**

- A. Splenium. B. Rostrum. C. Genu. D. Body. E. Lamina terminalis.

**Answer: E. Lamina terminalis**

**3. The 2 frontal lobes are connected together by:**

- A. Rostrum.
- B. Genu.
- C. Rostrum and genu.
- D. Trunk (body)
- E. Splenium.

**Answer: C. Rostrum and genu.**

**4. The fiber that connects frontal, occipital and temporal lobes is:**

- A. Superior longitudinal bundle.
- B. Inferior longitudinal fasciculus.
- C. Corpus callosum.
- D. Cingulum.
- E. Uncinate fasciculus.

**Answer: A. Superior longitudinal bundle**

**5. Genu of corpus callosum is supplied by:**

- A. Anterior cerebral artery.
- B. Middle cerebral artery.
- C. Posterior cerebral artery.
- D. Anterior communicating artery.
- E. Posterior communicating artery.

**Answer: A. Anterior cerebral artery**

**\*\* The question might be better fitted in the Cerebrum lecture, however, it is mentioned in this lecture that Genu of corpus callosum has an anterior relation with this artery, link it to its supply \*\*.**

6. The 2 crura of fornix are connected together by:

- A. Association fibers.
- B. Commissural fibers.
- C. Projections fibers.
- D. Parahippocampal commissure.
- E. Cingulum.

Answer: B. Commissural fibers.

7. The two temporal lobes are connected together by:

- A. Anterior commissure.
- B. Trunk (body).
- C. Posterior commissure.
- D. B+ C.
- E. B+ A.

Answer: E. B+ A.

8. All of the following statements about the body of corpus callosum are correct, EXCEPT:

- A. Lower surface is attached to septum pellucidum.
- B. Lower surface is related to lateral ventricle.
- C. Separated from cingulate gyrus by cingulate sulcus.
- D. Connects parietal lobes on both sides.
- E. Connects temporal lobes on both sides.

Answer: C. Separated from cingulate gyrus by cingulate sulcus.

9. As per anterior commissure, all of the following are true, EXCEPT:

- A. In front of columns of fornix.
- B. Connects olfactory bulbs.
- C. Connects hippocampus.
- D. Connects uncus.
- E. Connects anterior perforated substance.

Answer: C. Connects hippocampus.

10. White matter that connects uncus with anterior perforated substance is:

- A. Anterior commissure.
- B. Uncinate fasciculus.
- C. Superior longitudinal fasciculus.
- D. Cingulum.
- E. Corpus callosum.

Answer: D. Cingulum.

11. The artery that runs in the callosal sulcus is:

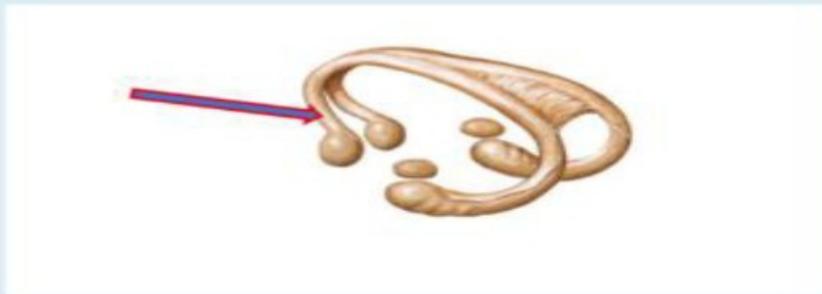
- A. ACA.
- B. MCA.
- C. PCA.
- D. Internal carotid artery.
- E. Internal cerebral artery.

Answer: A. ACA.

**\*\* Lab Exam Questions: \*\***

1.

What is the labeled structure?



Select one:

- a. Posterior column of the fornix
- b. Body of the fornix
- c. Fimbria of the hippocampus
- d. Amygdaloid nucleus
- e. Anterior column of the fornix

Answer: E. Anterior columns of the fornix.

2.

What is the labeled structure?



Select one:

- a. Body of fornix
- b. Genu of corpus callosum
- c. Splenium of corpus callosum
- d. Septum pellucidum
- e. Thalamus

Answer: B. Genu of corpus callosum.

الأسئلة السابقة هي أرشيف سابق وهي لا تتعلق بشكل مباشر مع المحاضرات السنة الحالية

### أسئلة أثر:

Which structure connects the pulvinar regions of the thalamus on both sides?

- Posterior commissure
- Interthalamic adhesion
- Anterior commissure
- Corpus Callosum

Answer:a

Not associated with cingulum

- isthmus
- hippocampal gyrus
- cingulate gyrus
- ant. perforated substance
- uncus

Answer:b

One of the following statements about the fornix of the limbic system is INCORRECT:

- A. The posterior columns (crura) are continuations of the fimbria of the hippocampus.
- B. The body of the fornix lies beneath the corpus callosum and above the thalamus.
- C. The anterior columns of the fornix continue with the fimbria of the hippocampus.
- D. The anterior columns end in the mammillary bodies and septal area.
- E. The fornix is the main efferent pathway of the hippocampus.

Answer:c