

Cerebellum

Objectives:

Identify the lobes and divisions of the cerebellum

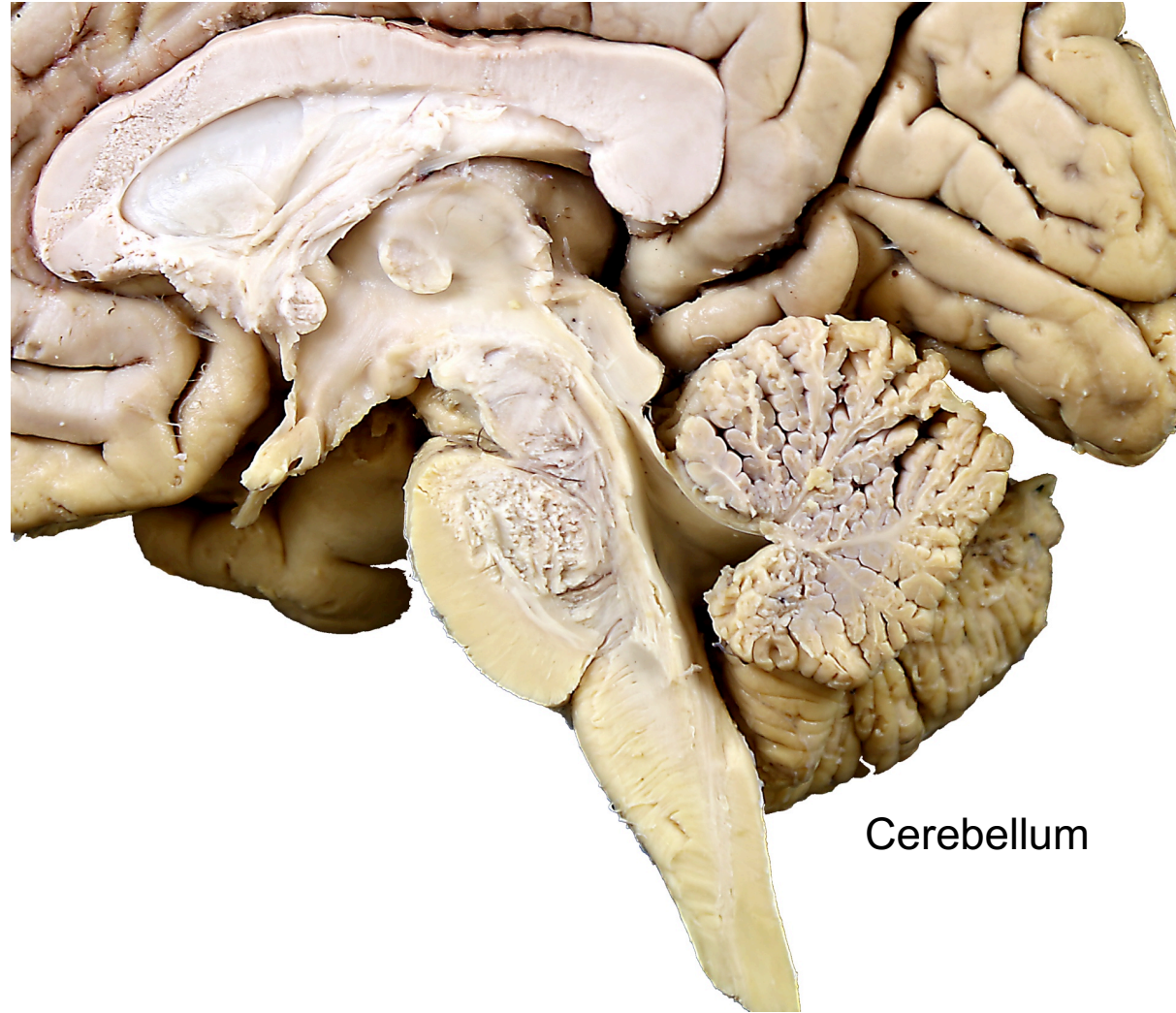
Identify the cerebellar peduncles

Specimens Required:

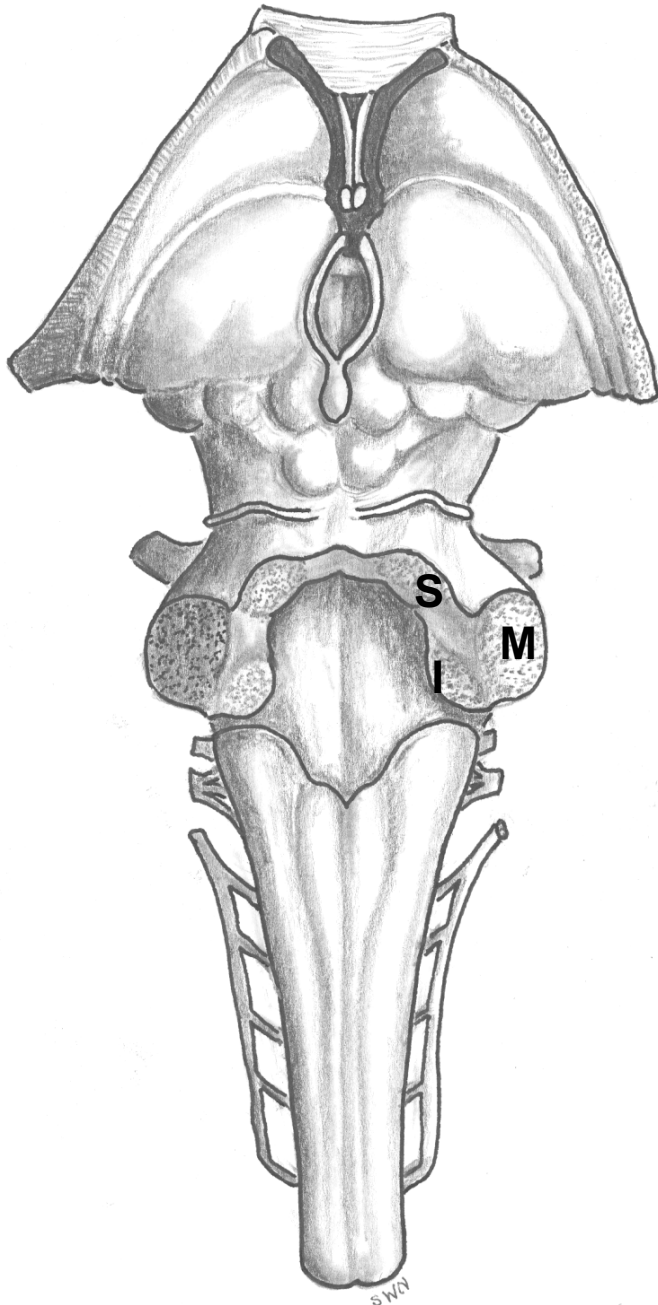
Rubber brain stem model

Hemisected whole brain

Whole and hemisected cerebelli



Cerebellar Peduncles

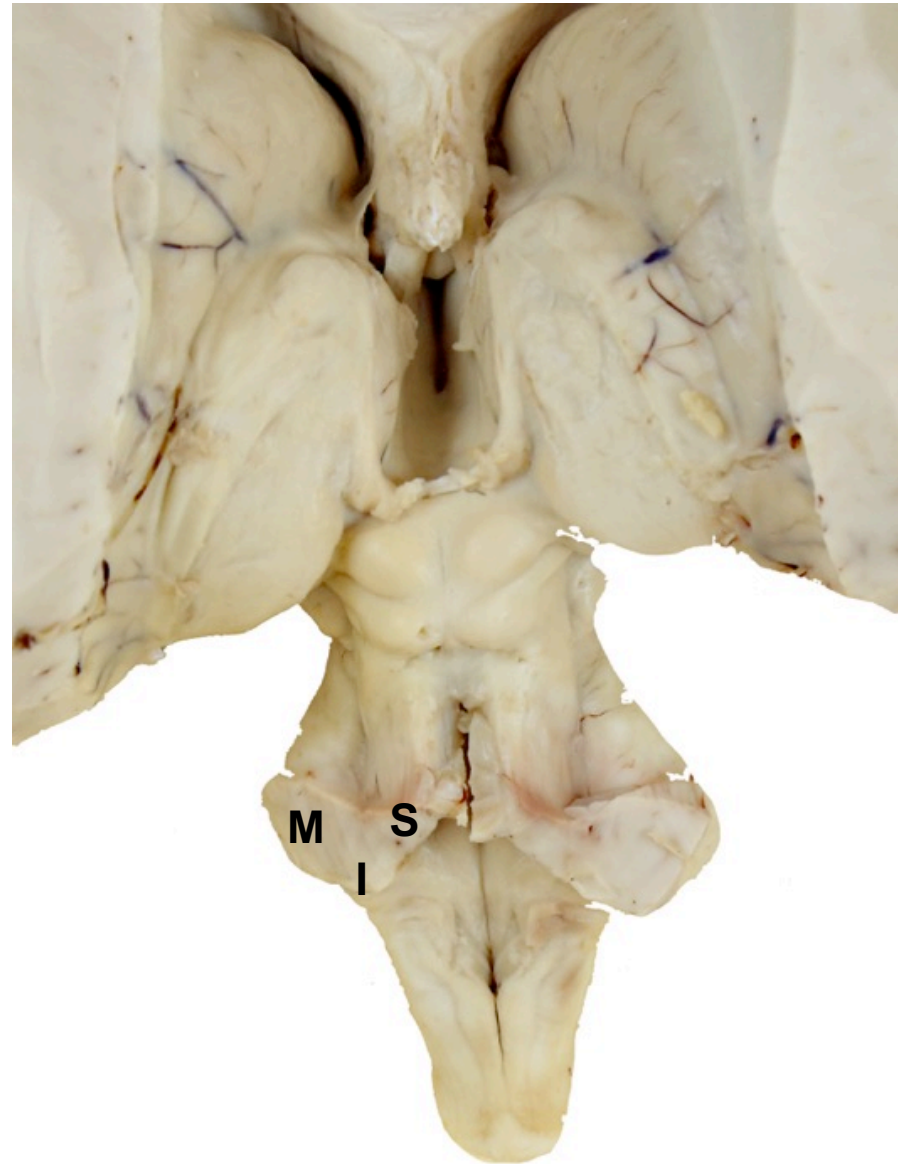


The cerebellum is removed from the brain stem by cutting through the:

Superior cerebellar peduncle (fibers to the midbrain)

Middle cerebellar peduncle (fibers from the pons)

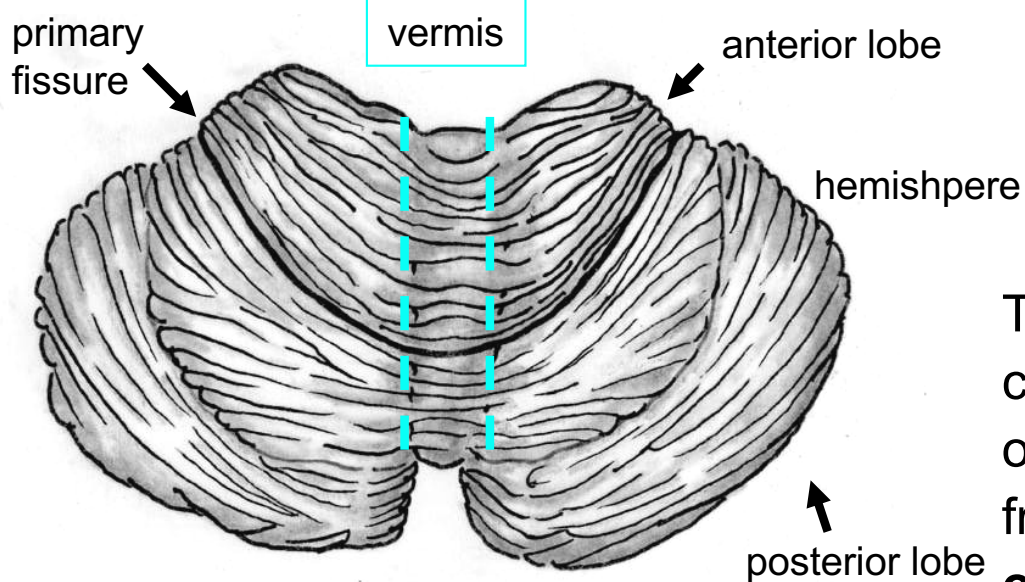
Inferior cerebellar peduncle (fibers from the medulla and spinal cord)



Superior Surface

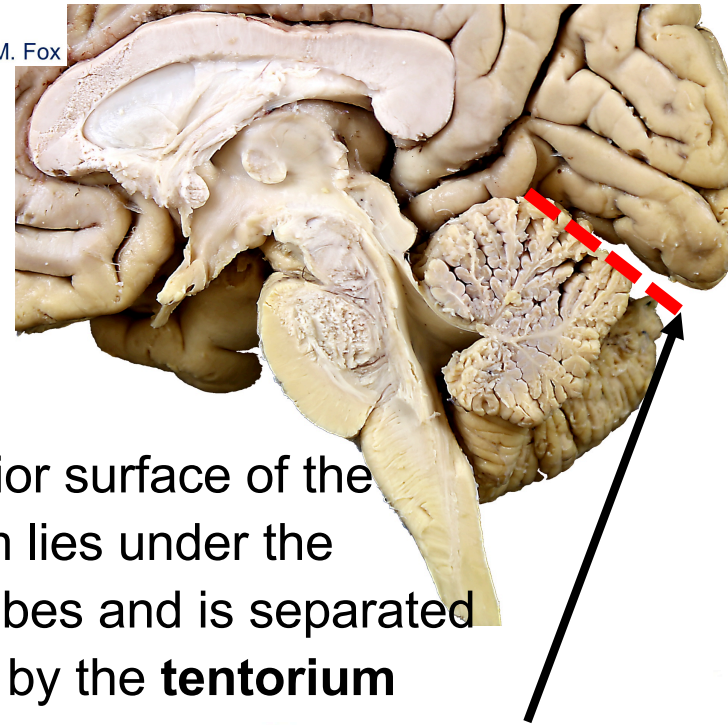
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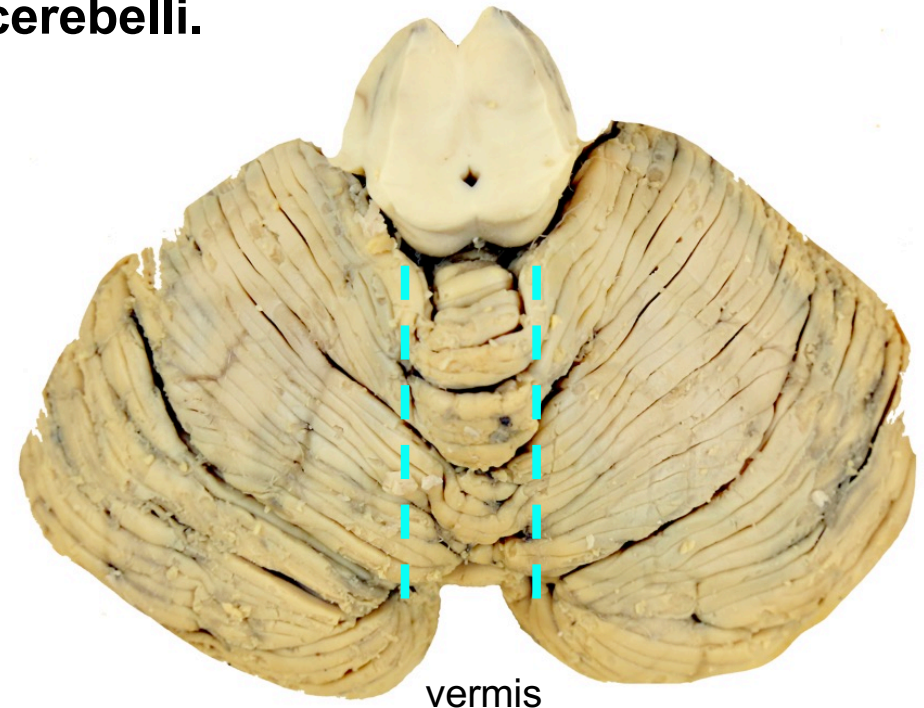


The midline region of the cerebellum is the **vermis**. The much larger left and right **hemispheres** of the cerebellum flank the vermis.

The **anterior lobe** and **posterior lobe** of the cerebellum are separated by the **primary fissure**.



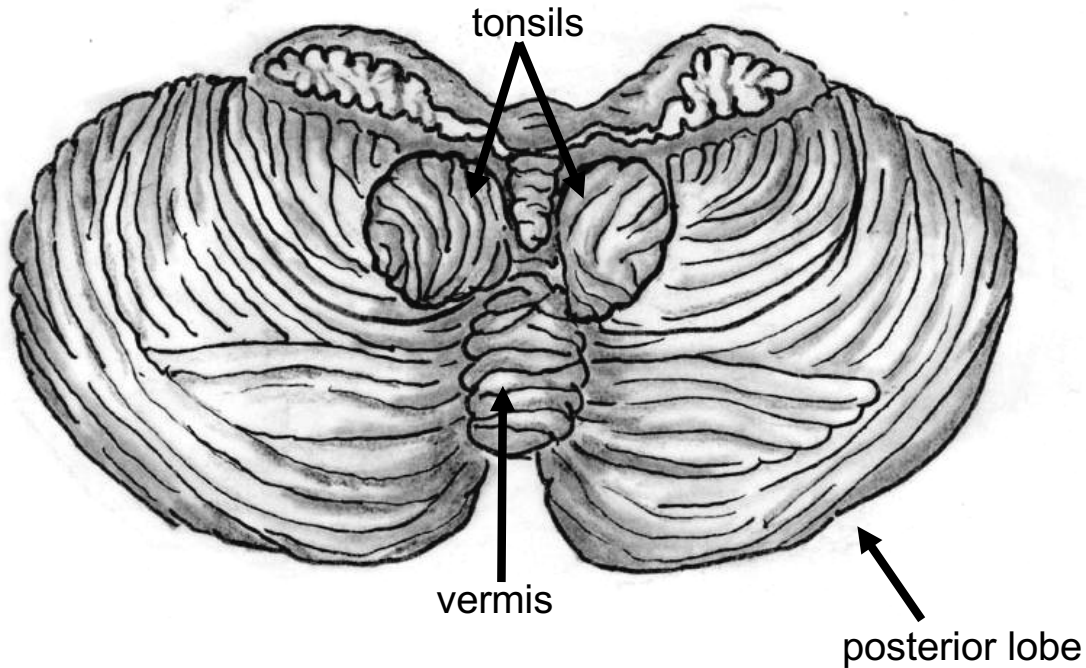
The superior surface of the cerebellum lies under the occipital lobes and is separated from them by the **tentorium cerebelli**.



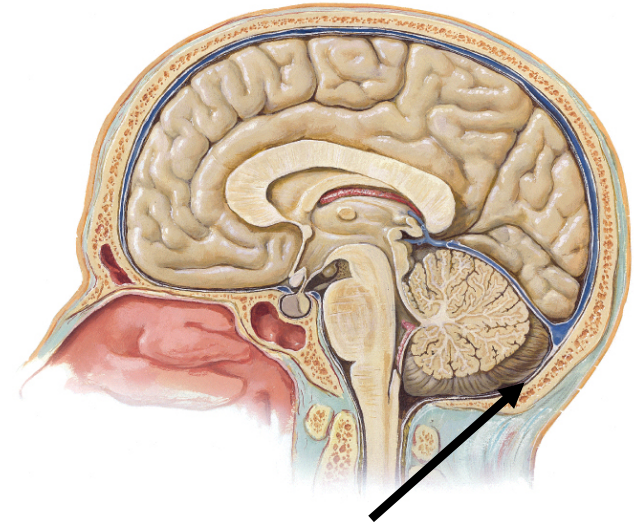
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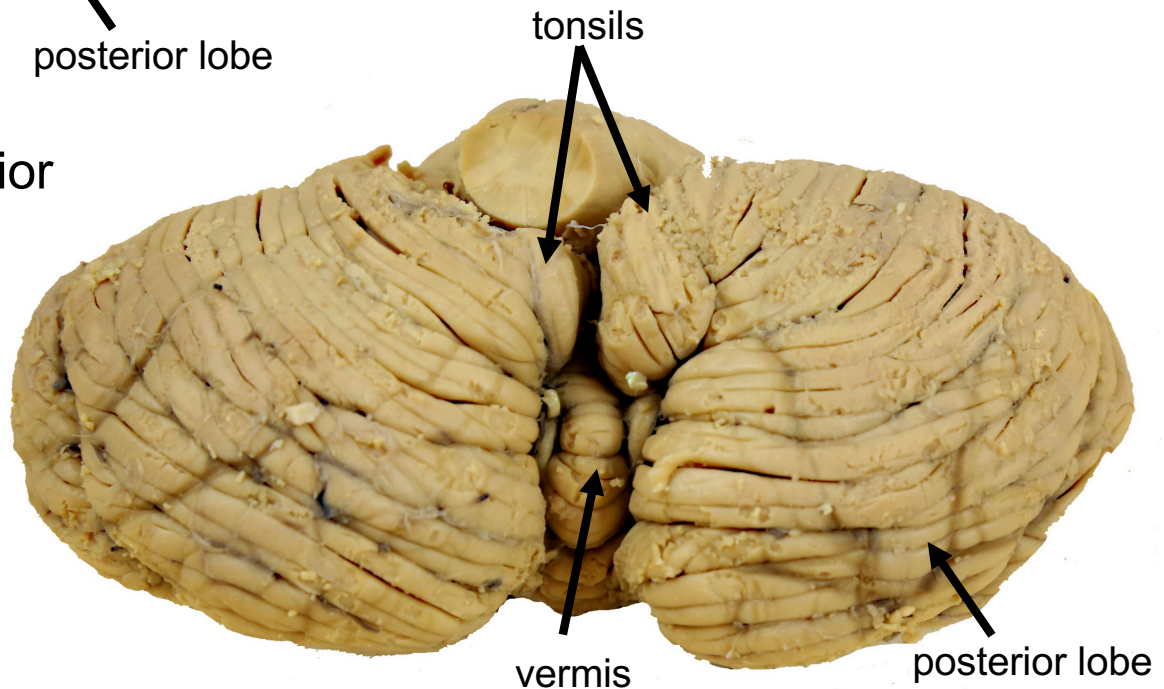
Inferior Surface



The **tonsils** are lobules of the posterior lobe that lie above the foramen magnum. They can be herniated through the foramen by increased intracranial pressure.



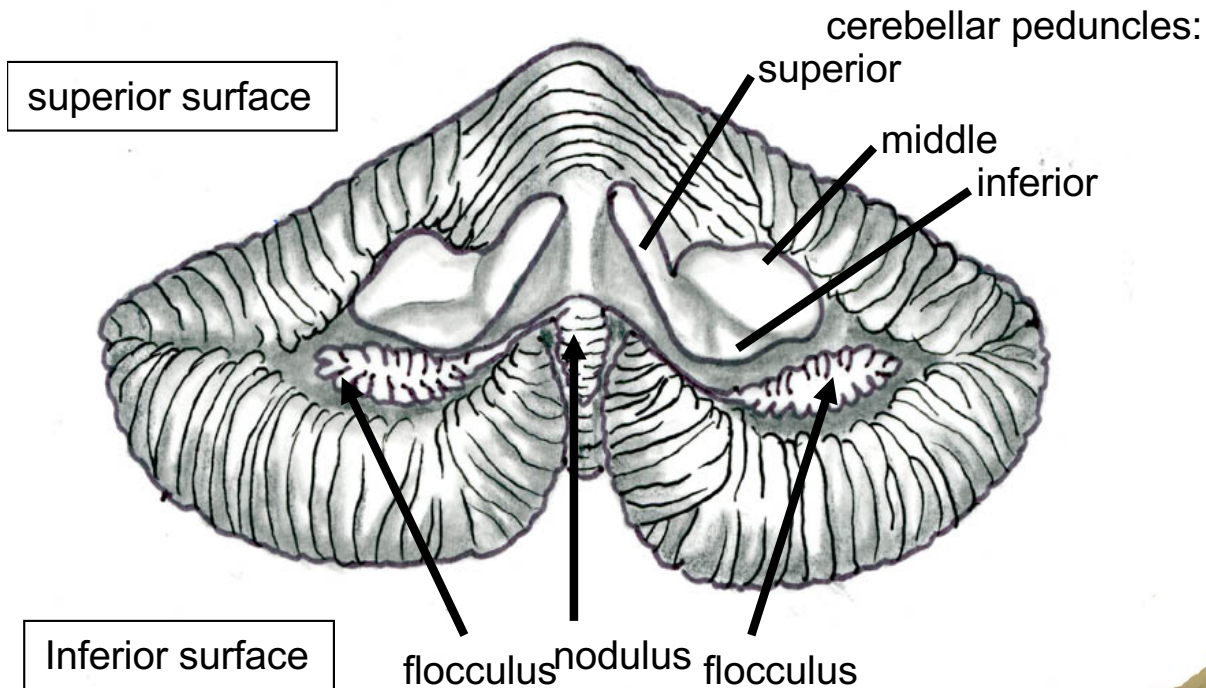
The inferior surface of the cerebellum lies on the floor of the **posterior cranial fossa**.



Cerebellar Peduncles

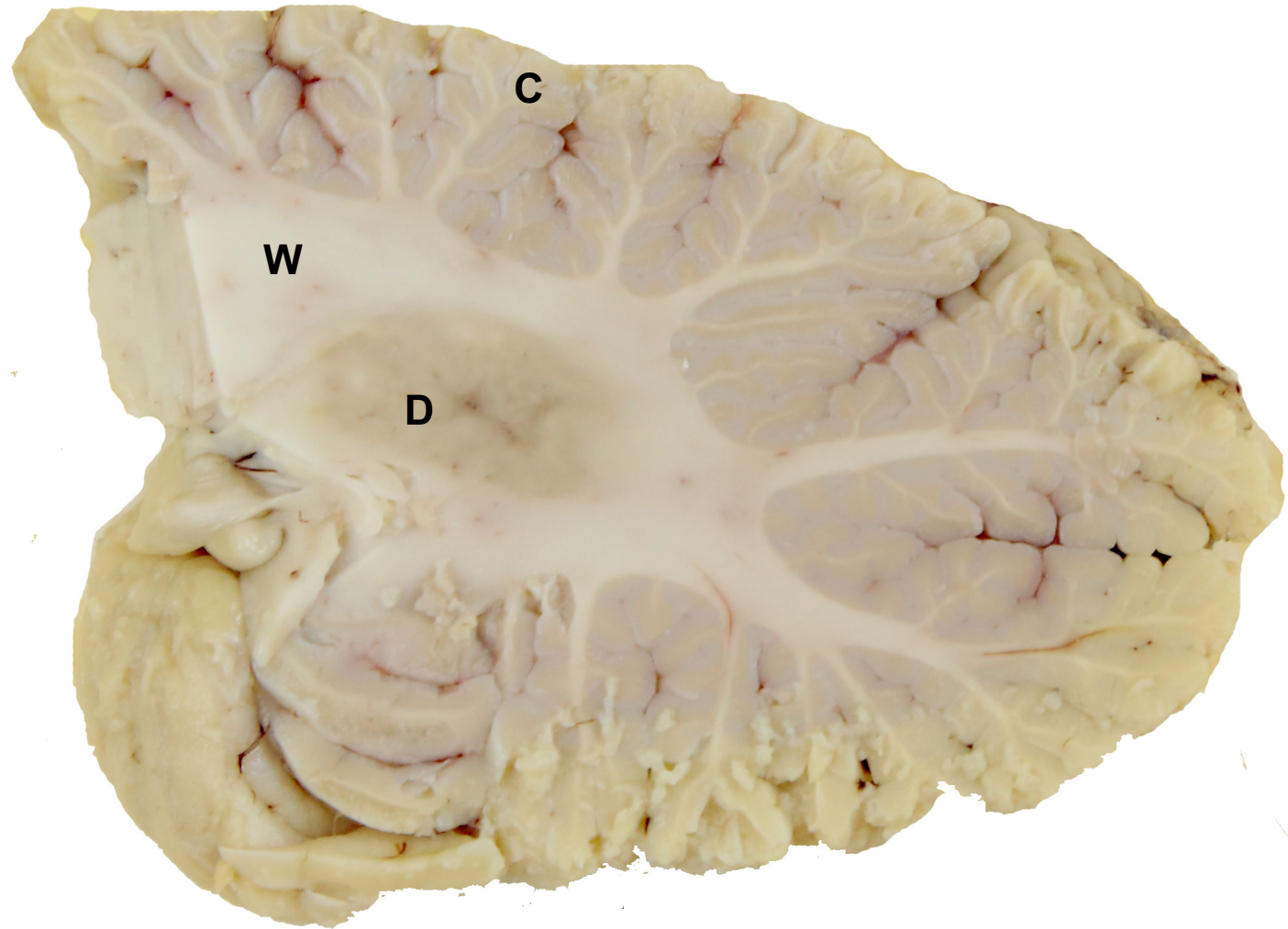
A view from the floor of the IV ventricle

In this view we see the cut surfaces of the cerebellar peduncles and the flocculonodular lobe.



Parasagittal Section

The **cerebellar cortex**, **white matter** and **deep nuclei** are easily observed in a parasagittal section of the cerebellum.



Cerebellum

Question I

Choose the one best answer:

The three major lobes of the cerebellum are the:

- A. anterior, posterior and tonsilar
- B. anterior, vermal and posterior
- C. anterior, posterior and superior
- D. anterior, posterior and flocculonodular
- E. anterior, vermal and flocculonodular

True/False

- II. ____ The anterior lobe of the cerebellum lies directly beneath the tentorium cerebelli.
- III. ____ The tonsils of the cerebellum may herniate underneath the tentorium cerebelli.

Cerebellum

ANSWER SHEET

Question I	D
Question II	T
Question III	F