

Anatomy lab

DR AMAL ALBTOOSH

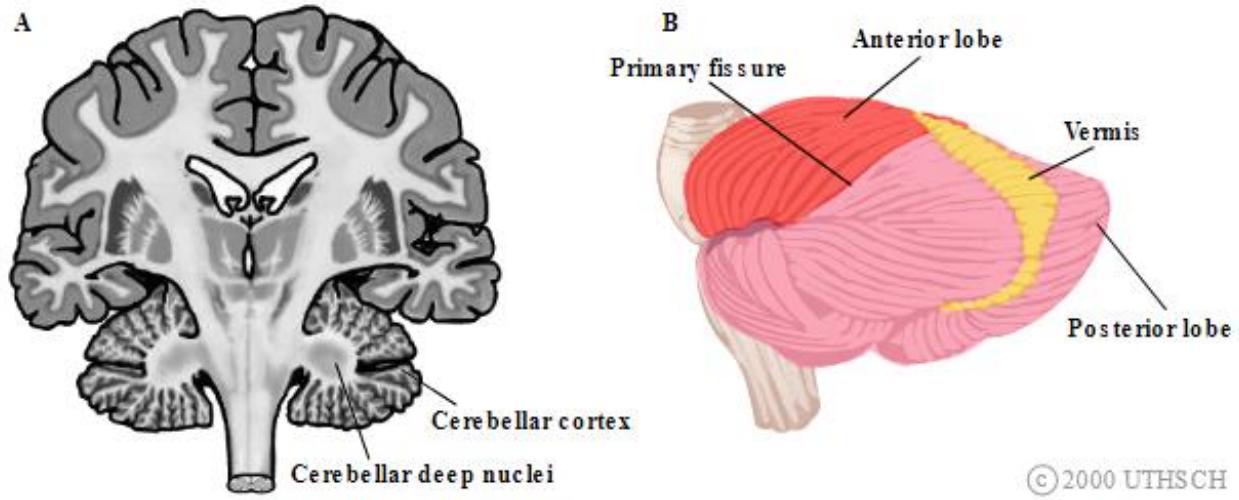


Figure 5.2
(A) Cerebellar deep nuclei and cerebellar cortex in an idealized brain section. (B) External morphology of the cerebellum.

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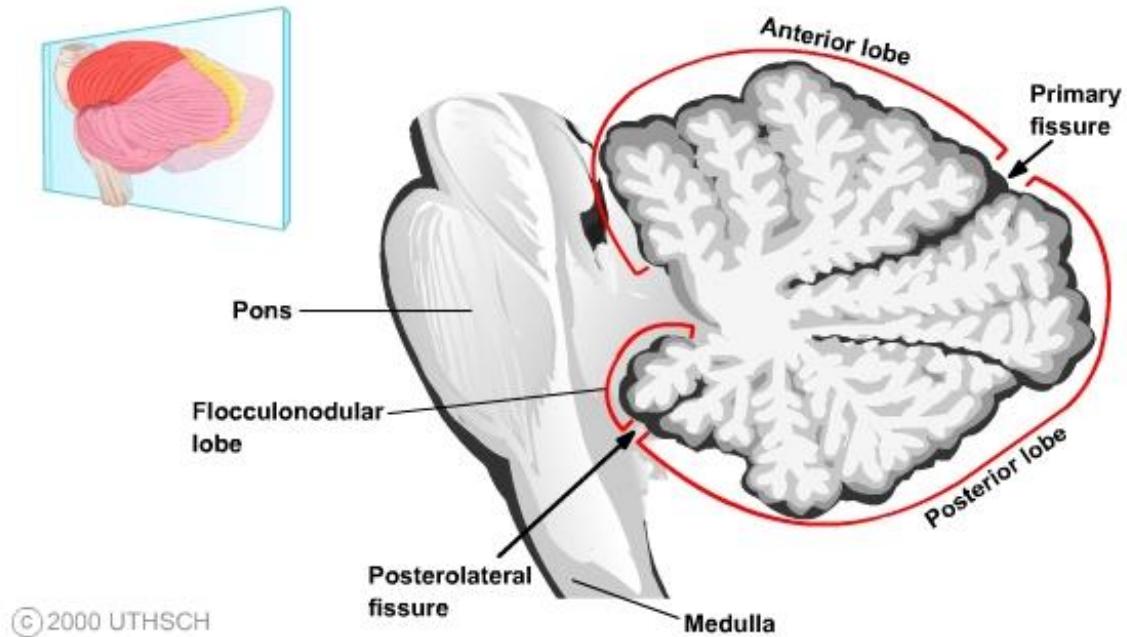


Figure 5.3
Midsagittal cross-section of cerebellum showing the three primary lobes of the cerebellum.

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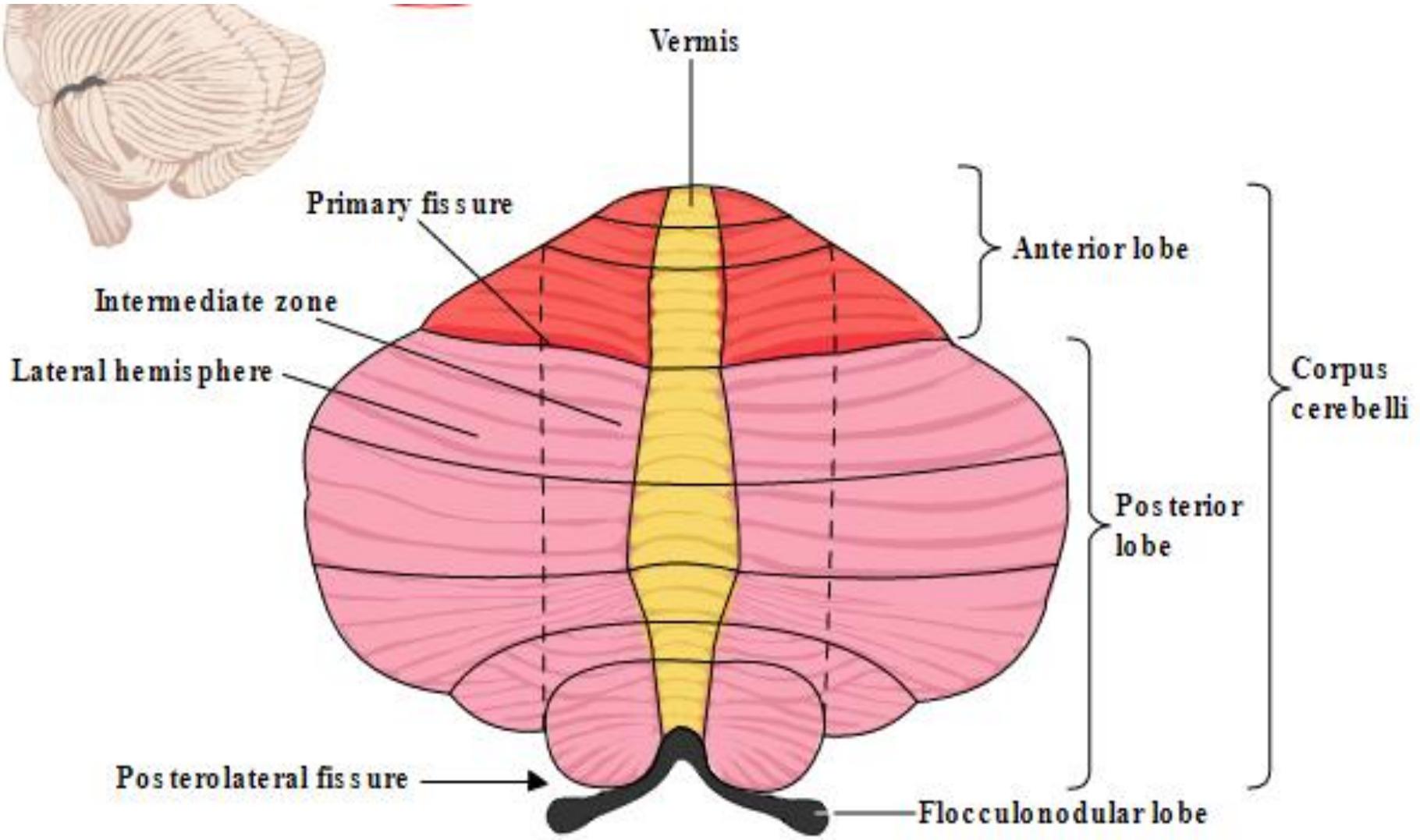
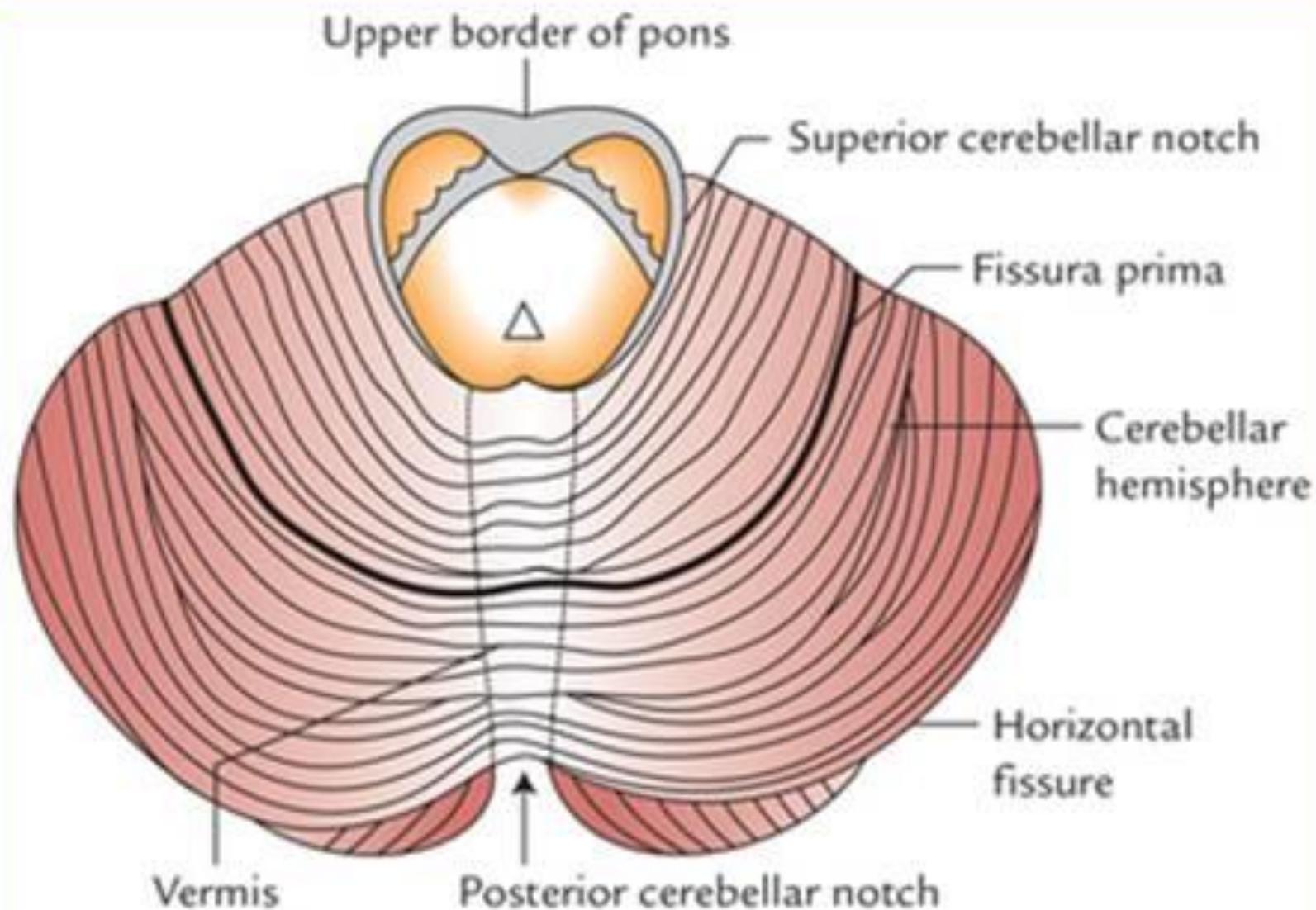
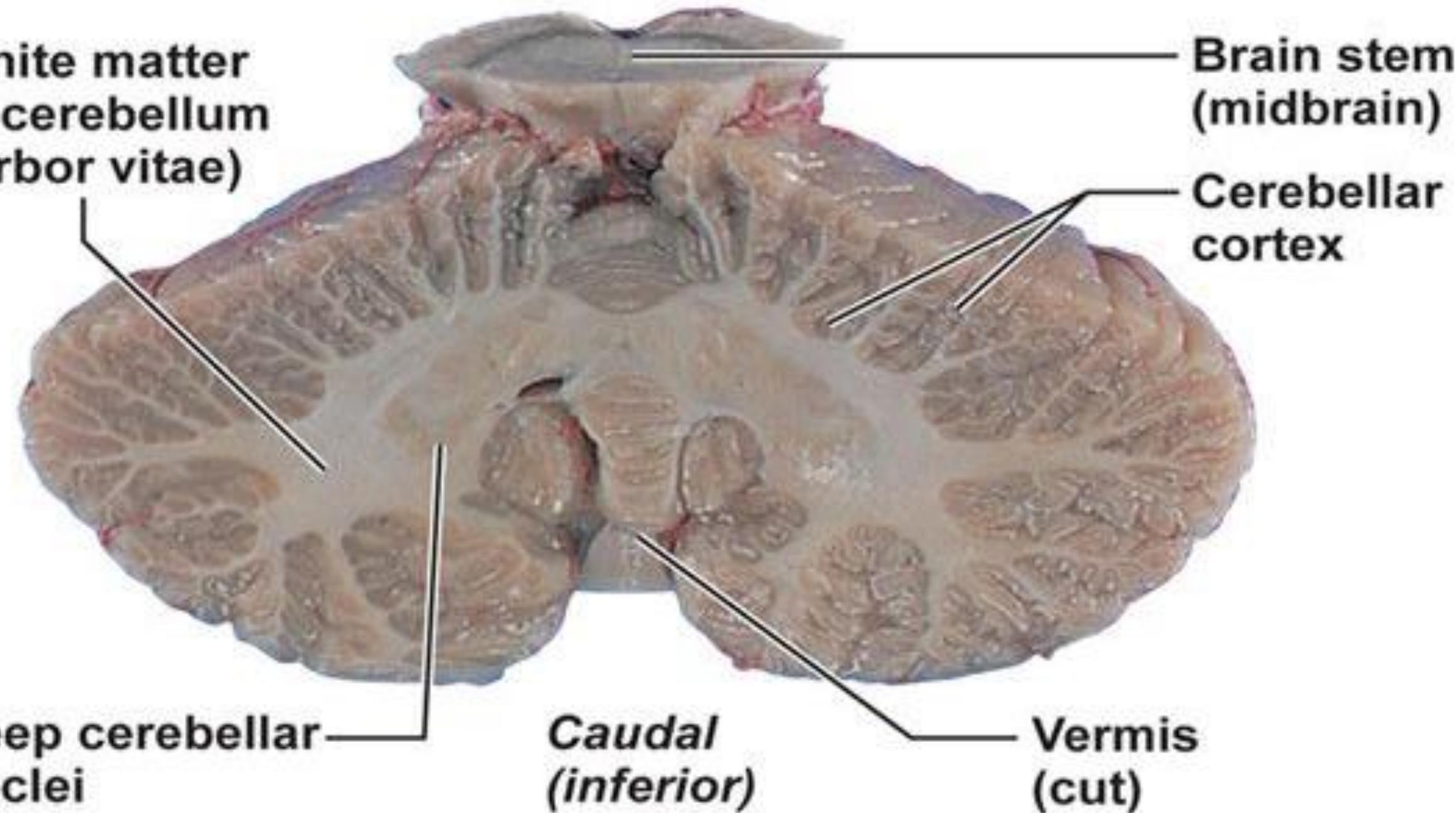
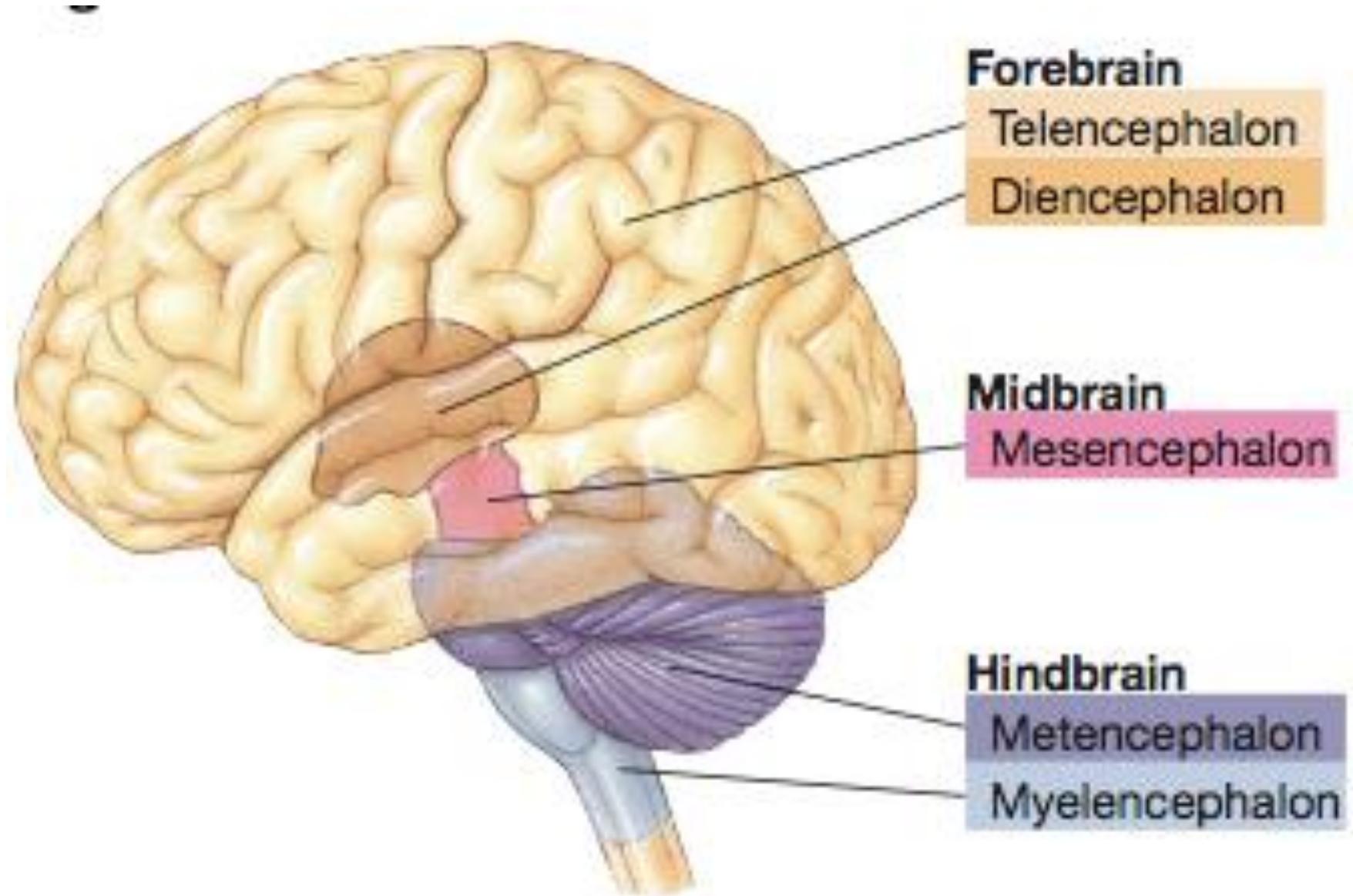


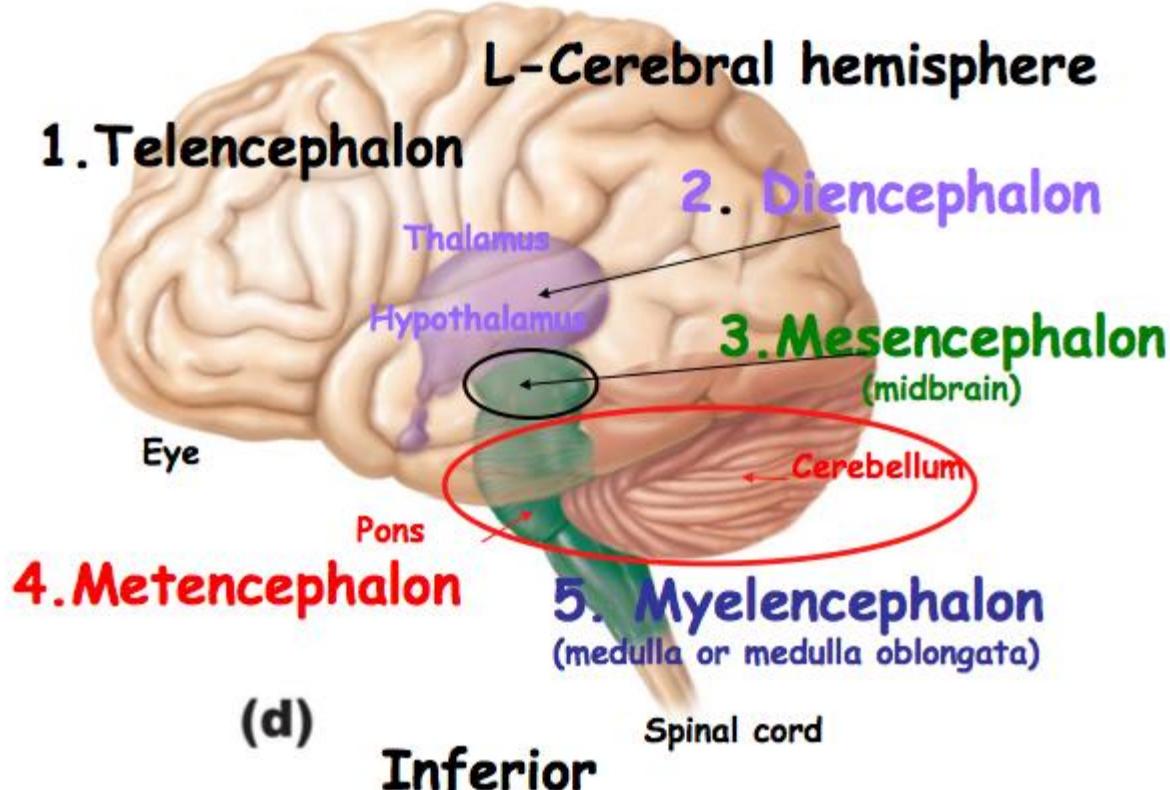
Figure 5.4
Divisions of cerebellum. Click PLAY to see schematic "unfolding" of cerebellum.

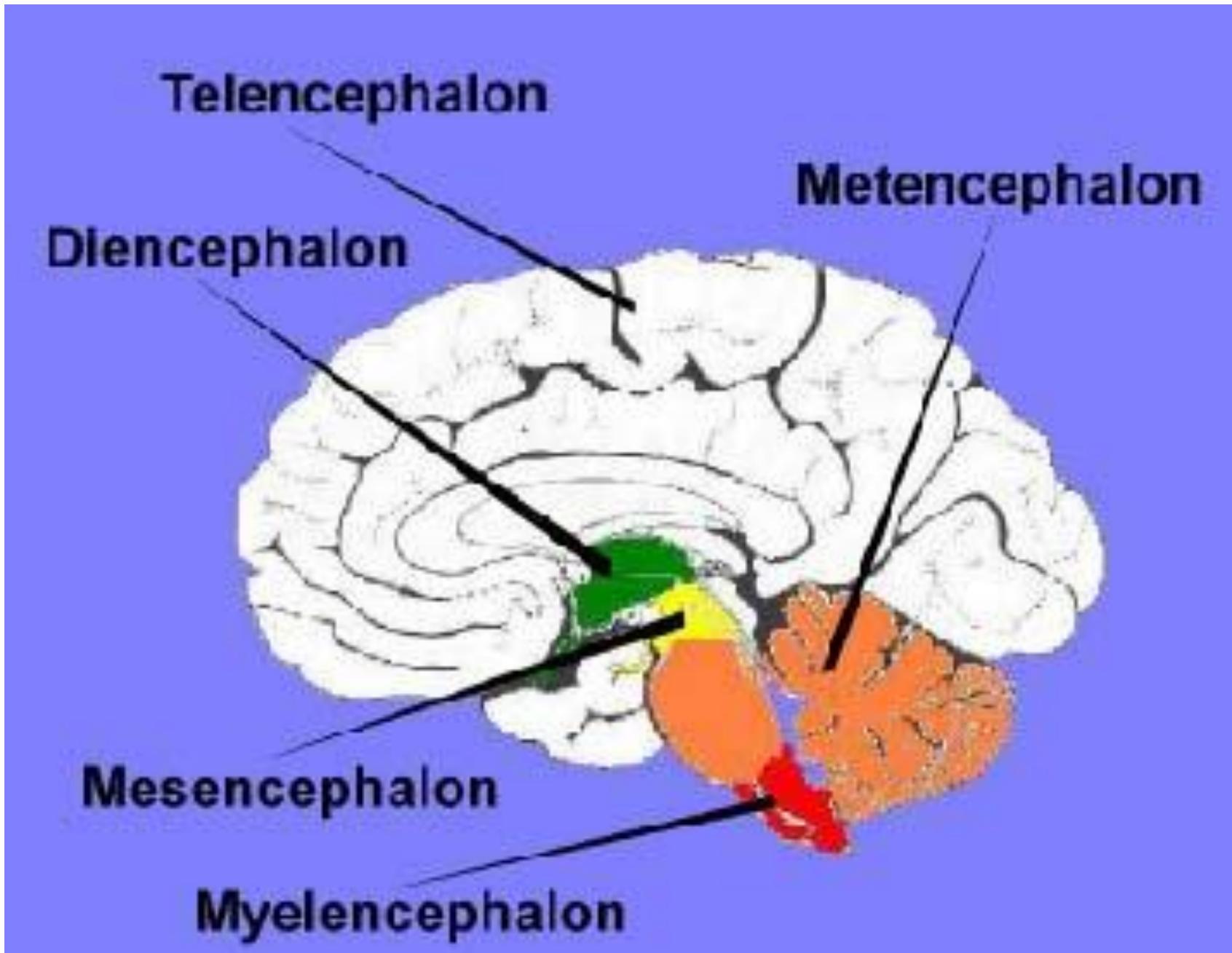


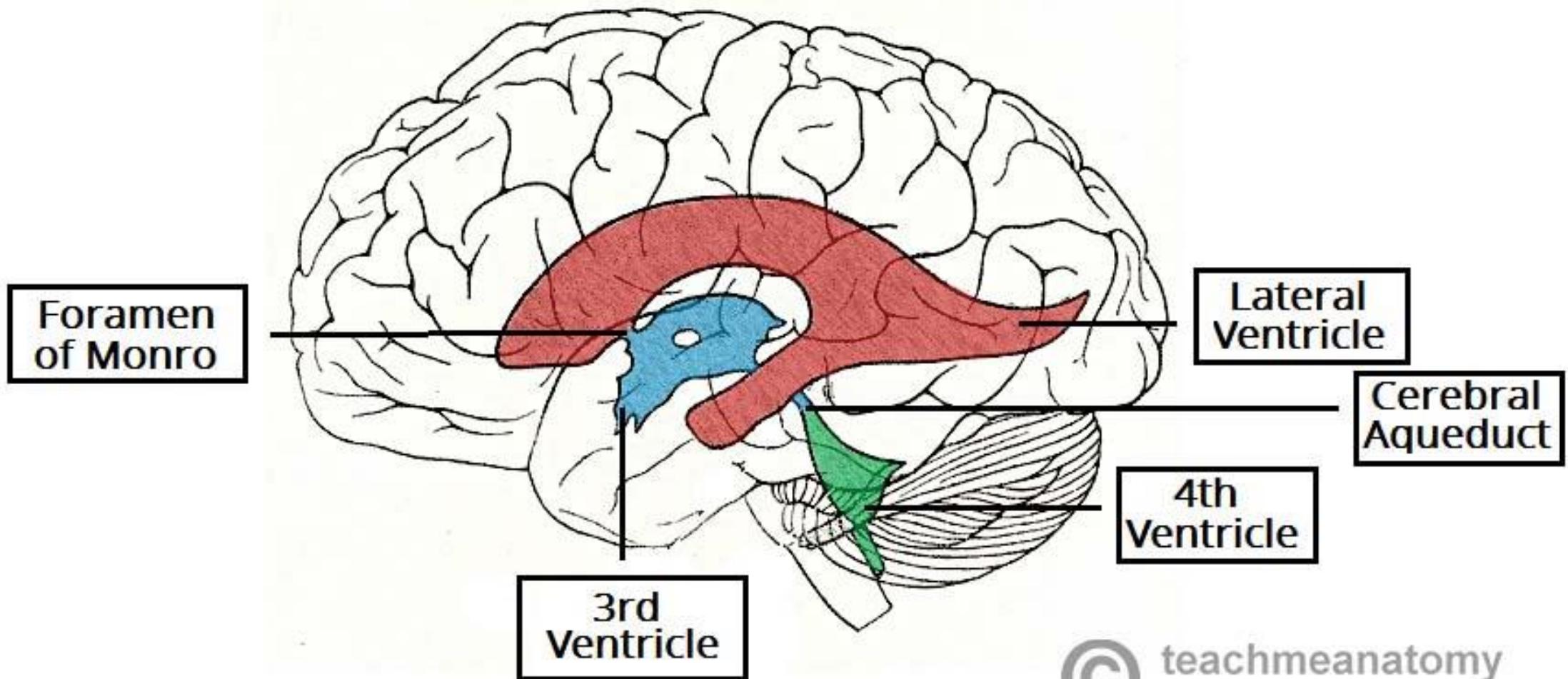




Rostral **Superior** **Caudal**





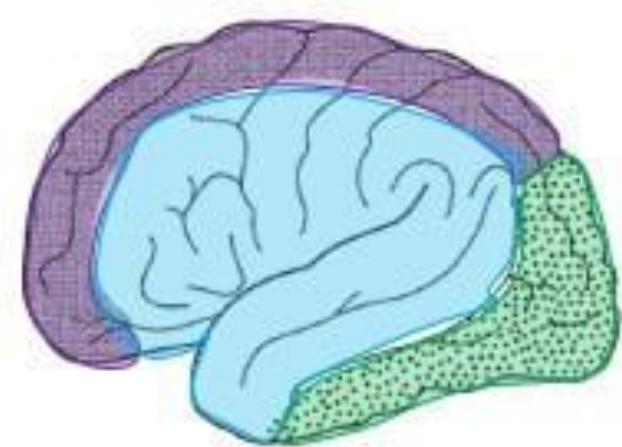


teachmeanatomy

The #1 Applied Human Anatomy Site on the Web.

Blood Supply to the Brain

■	ACA territory
■	MCA territory
■	Anterior choroid
■	PCA territory



Caudate nucleus •

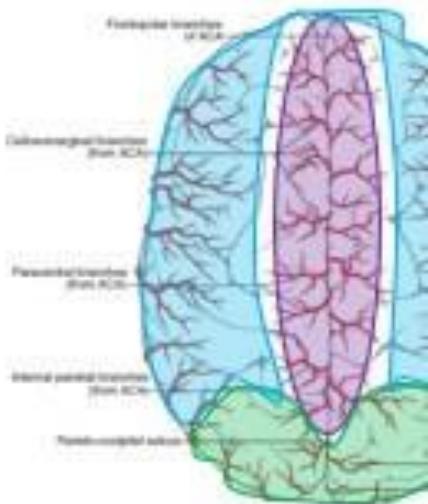
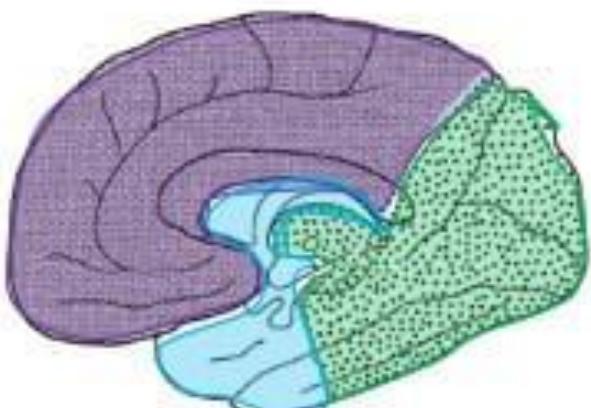
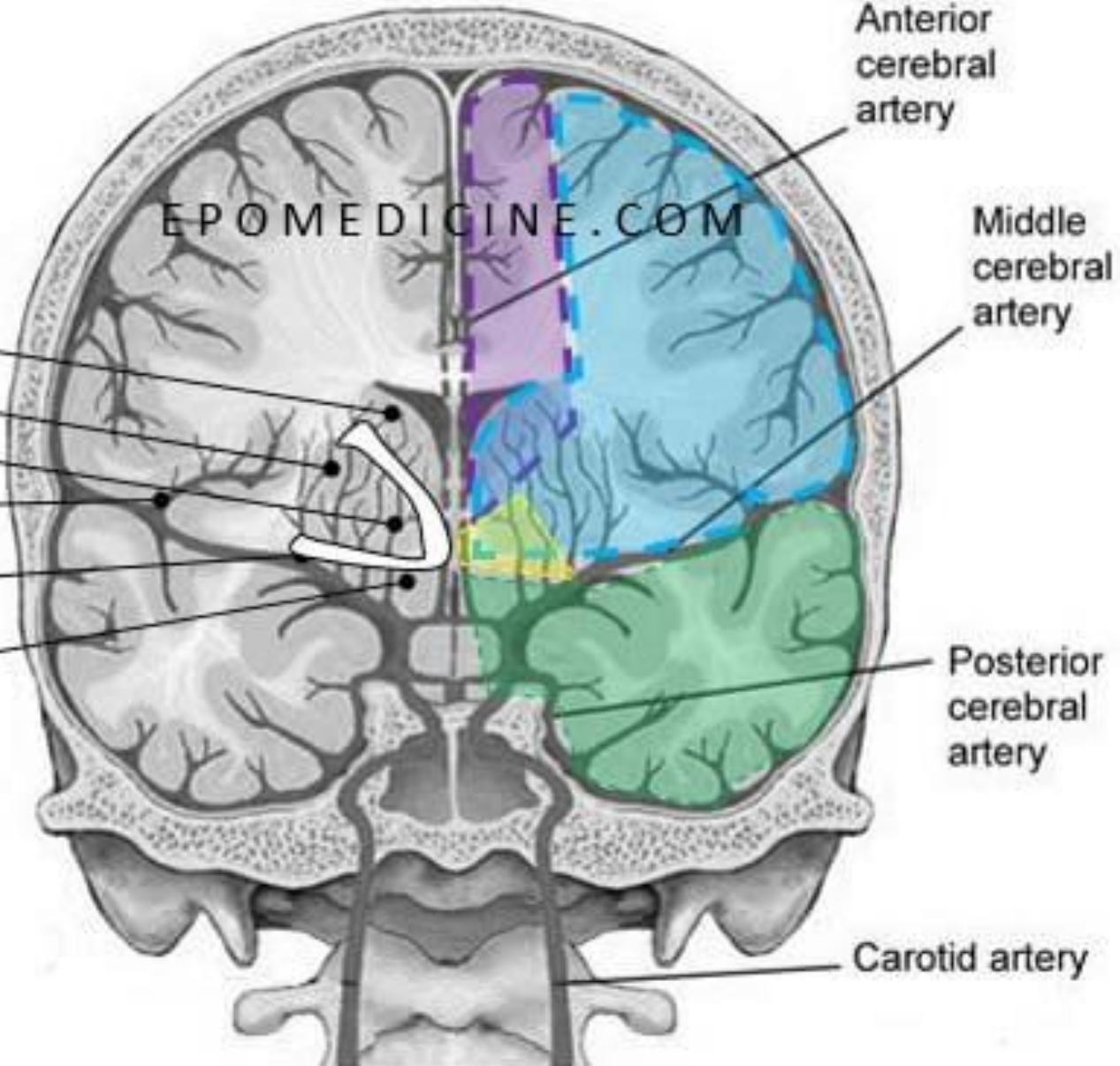
Putamen •

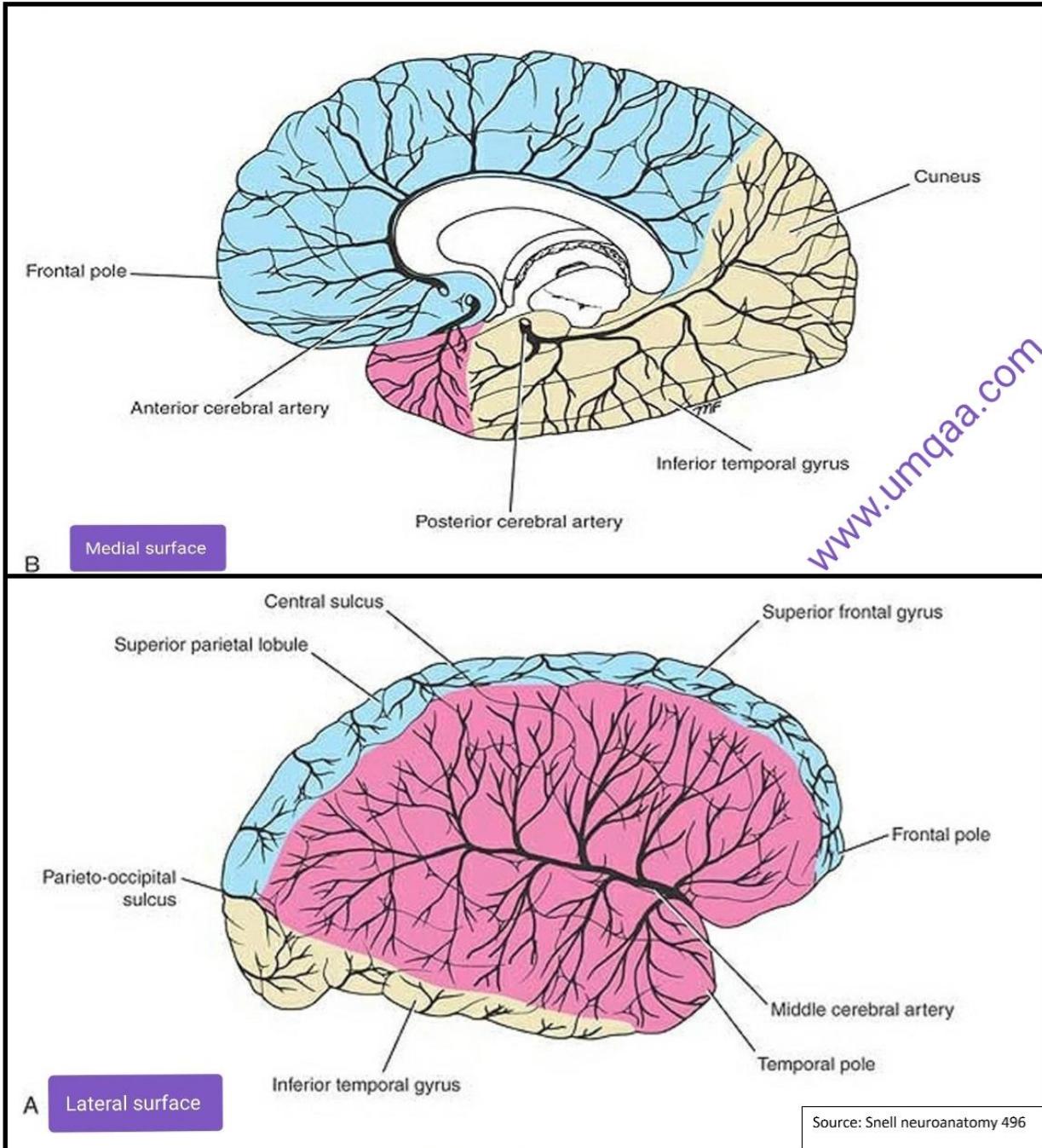
Globus pallidus •

Sylvian fissure •

Internal capsule •

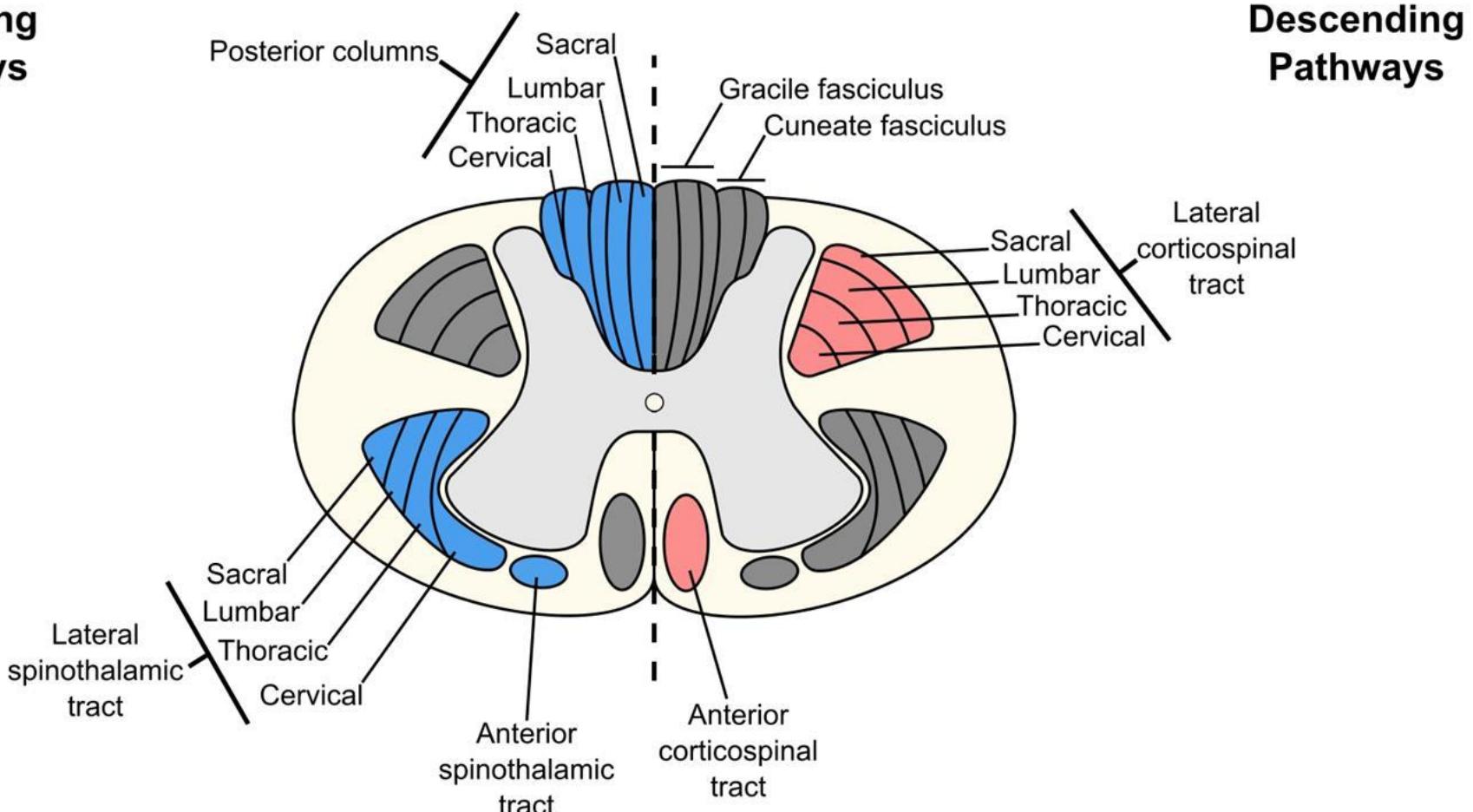
Thalamus •





Spinal Cord Pathways

Ascending Pathways



Descending Pathways

TRACT	RECEPTORS	TRANSMITS?	CROSSED?	1 ST ORDER	2 ND ORDER	3 RD ORDER	TERMINATES
DC-ML	Pacini, Meissner corpuscles, joint receptors, muscle spindles, (GTOs).	tactile discrimination, vibration, form recognition, joint and muscle sensation, conscious proprioception.	YES	DRG ALL LEVEL	gracile and cuneate nuclei	CONTRA. VPL	POSTCENTRAL GYRUS
Ventral spinothalamic tract	free nerve endings, Merkel tactile disks.	light touch	YES	DRG ALL LEVEL	in the dorsal horn	CONTRA. VPL	POSTCENTRAL GYRUS
Lateral spinothalamic tract	free nerve endings , thermal receptors	itch, pain, and temperature sensation.	YES	DRG ALL LEVEL	in the dorsal horn	CONTRA. VPL neurons	postcentral gyrus
					Intralaminar neurons	Intralaminar neurons	Caudatoputamen+ frontal+ parietal cortex
Dorsal Spino-cerebellar Tract	muscle spindles, GTOs, pressure receptors	unconscious proprioceptive/posture OF LOWER LIMB	NO	DRG C8-S3	nucleus dorsalis of Clarke C8-L3	NO [CEREBELLUM→ IN F. PEDUNCLE	Ipsi. as mossy fibers / cortex / rostral and caudal cerebellar vermis.
Ventral Spino-cerebellar Tract	muscle spindles, GTOs, pressure receptors	unconscious proprioceptive/posture OF LOWER LIMB	YES	DRG L1 -S2	spinal border cells L1-S2	NO [CEREBELLUM→ S UP. PEDUNCLE	Contra. as mossy fibers/ cortex /rostral cerebellar vermis
Cuneo-cerebellar Tract	muscle spindles, GTOs, pressure receptors	unconscious proprioceptive/posture UPPER LIMB	NO	DRG C2-T7	Accessory Cuneate Nucleus /Medulla.	NO CEREBELLUM→ INF. PEDUNCLE	IPSL. arm region/ANT. LOBE/ cerebellum.