

Brain Stem & Cranial Nerves

Anatomy Practical (Part 1)

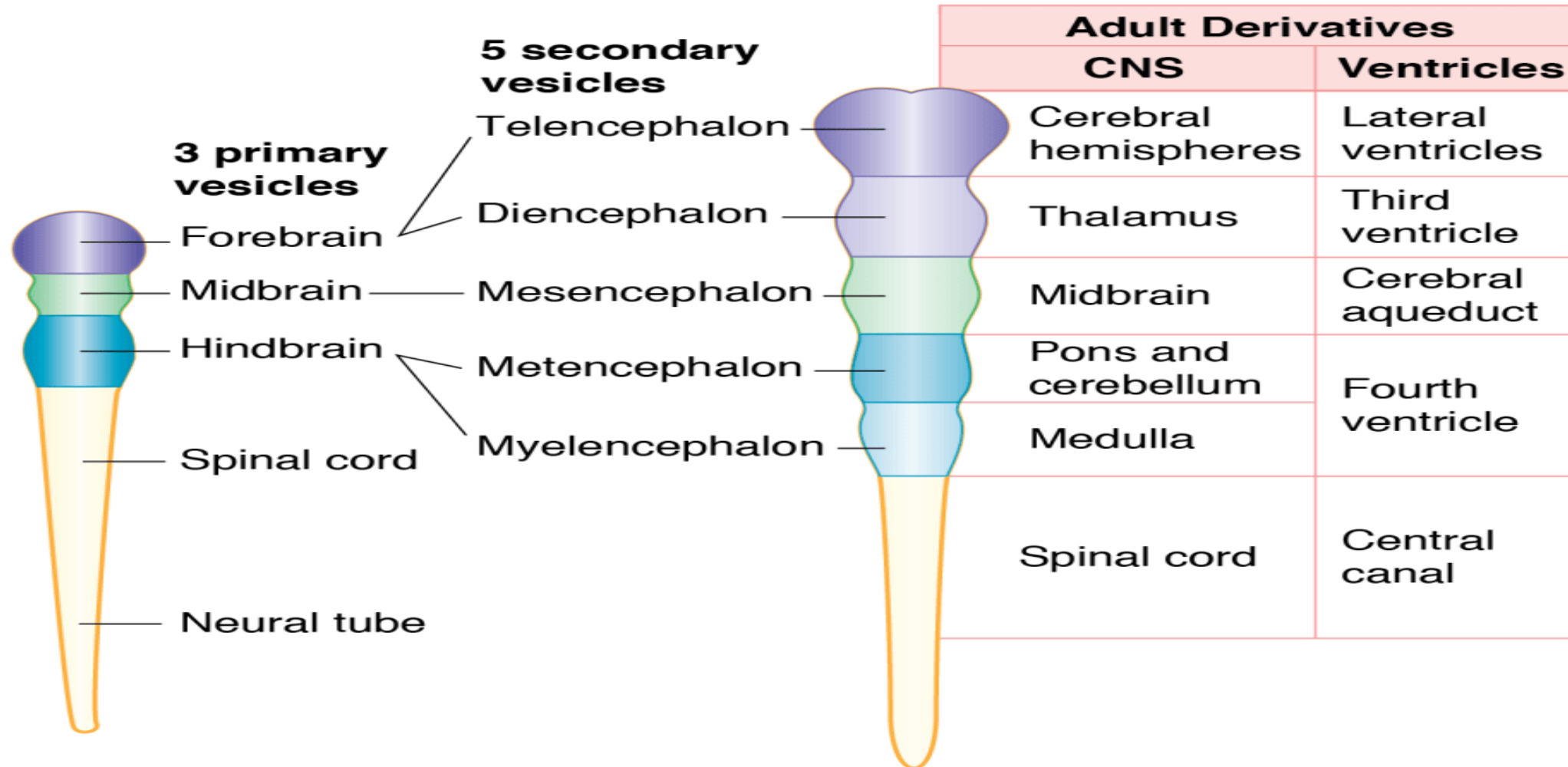
By Dr. Mohammed Alhefnawy

Anatomy Department

College of Medicine

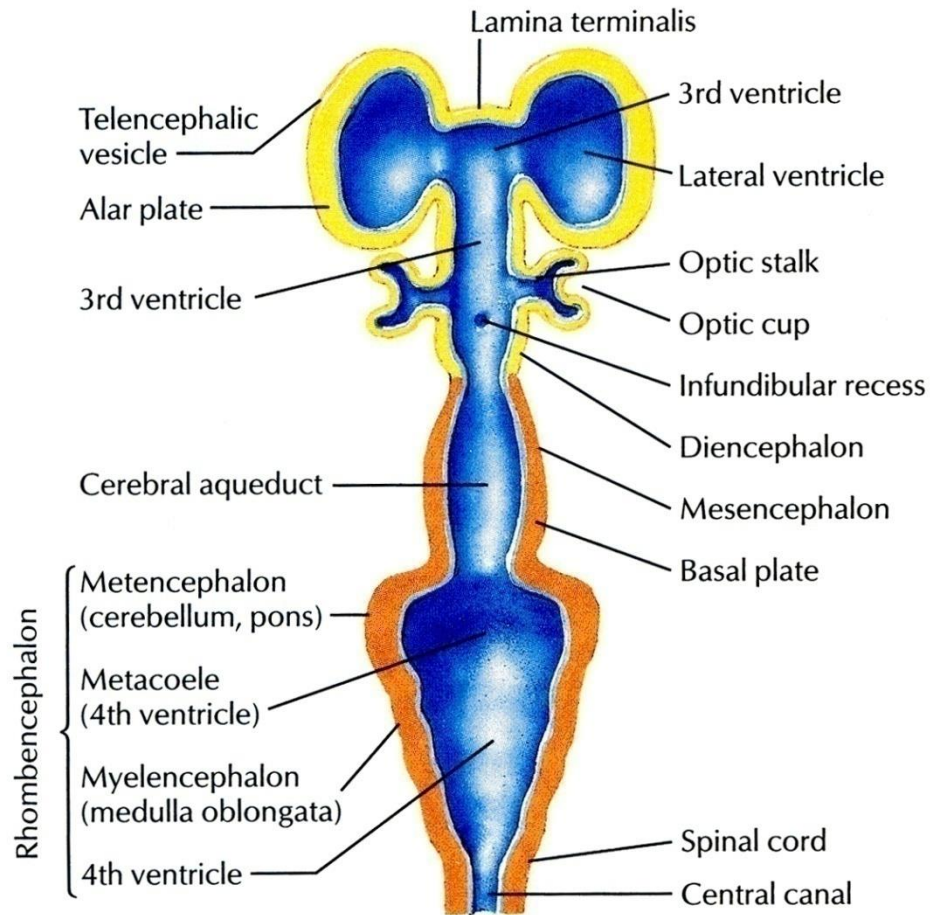
King Saud University

Development of Brain Stem

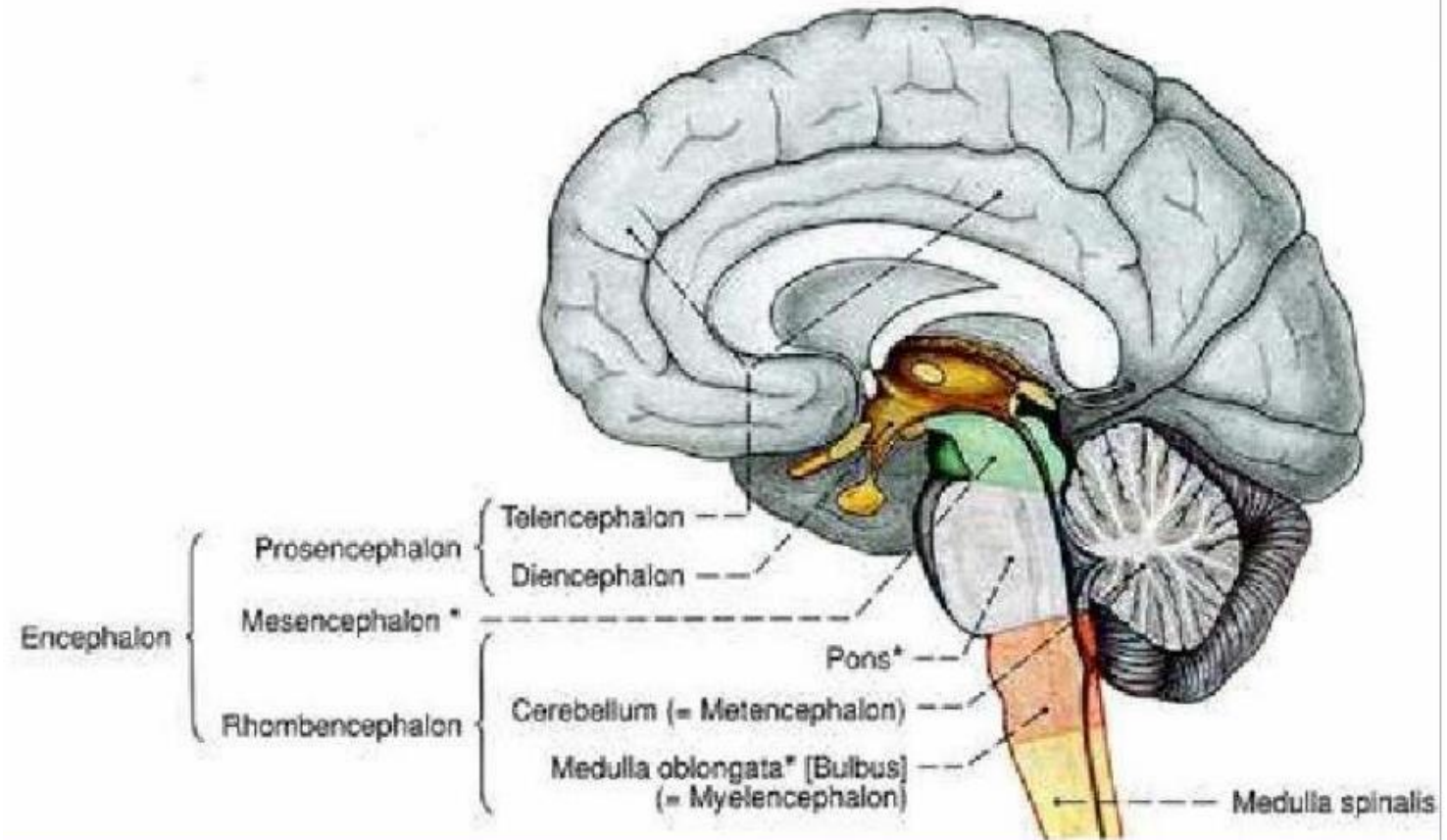


Development of Brain Stem

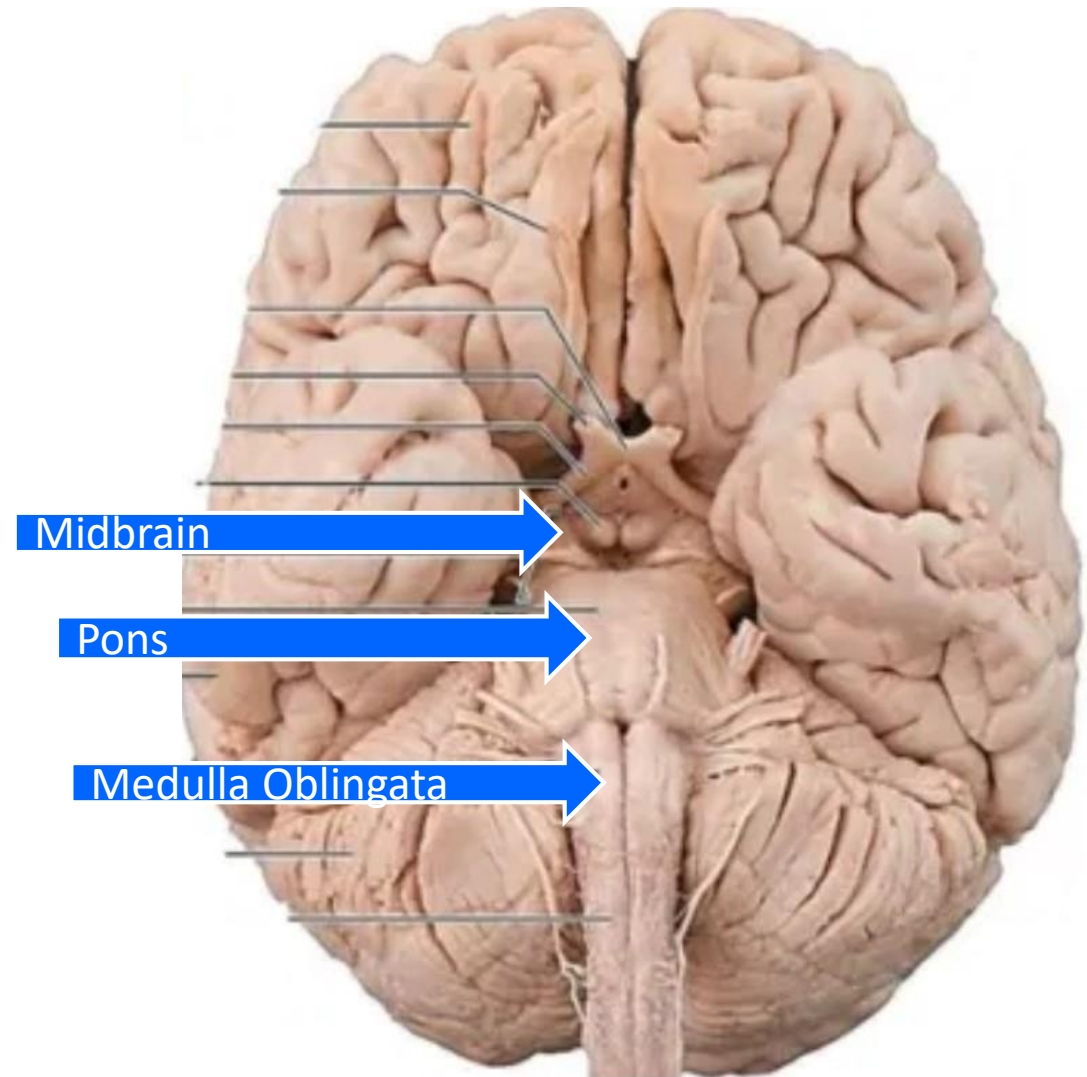
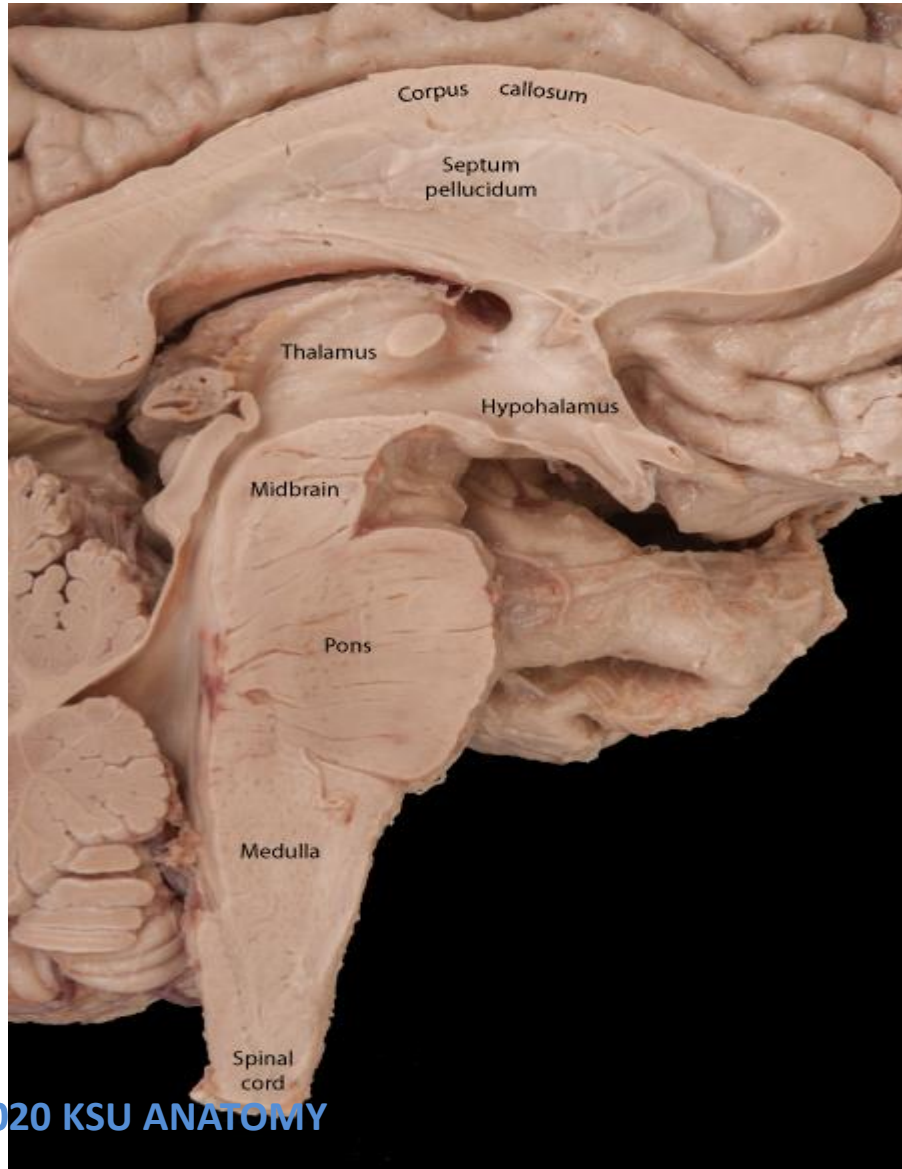
Frontal section (ventral to sulcus limitans) at 36 days

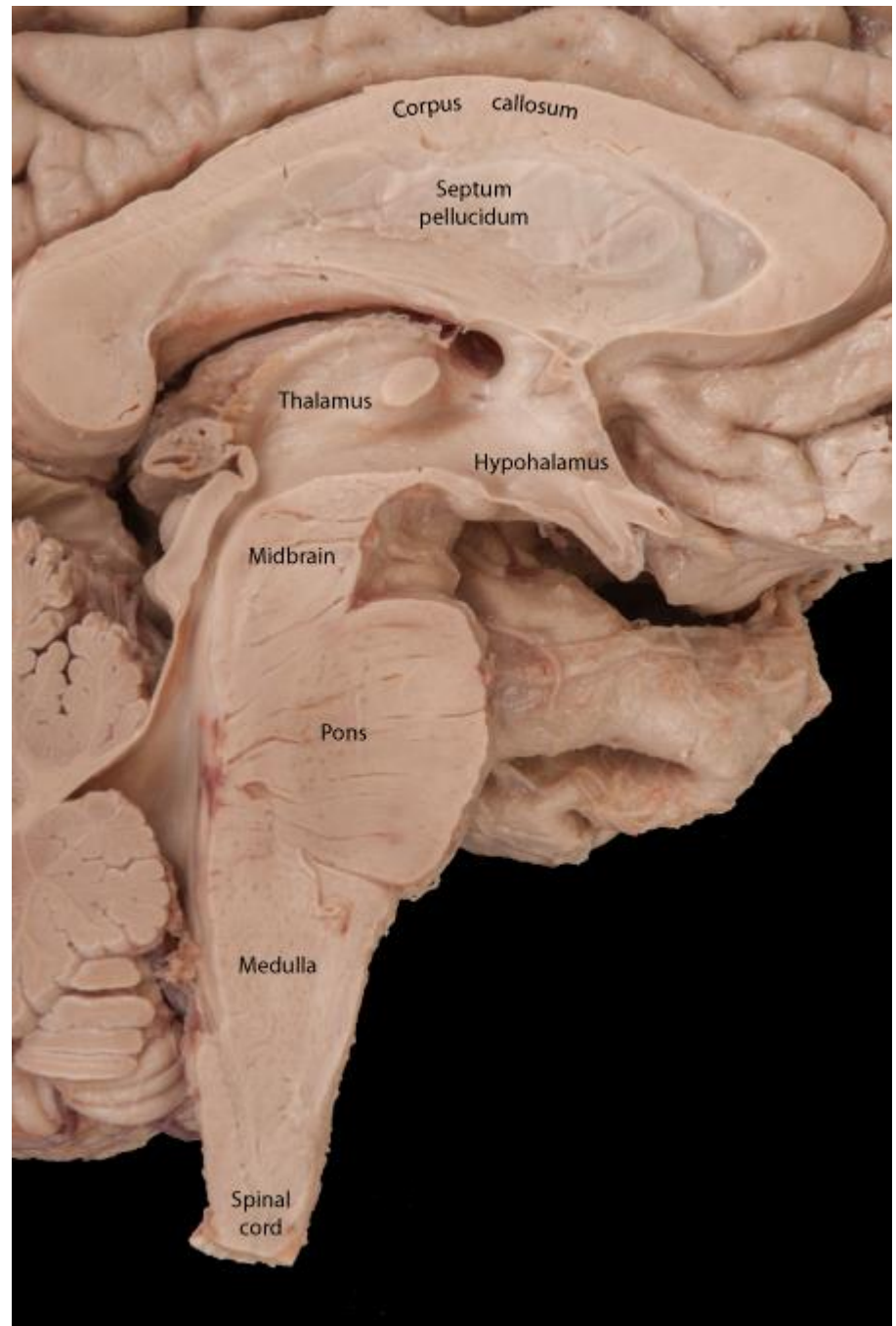


CNS divisions

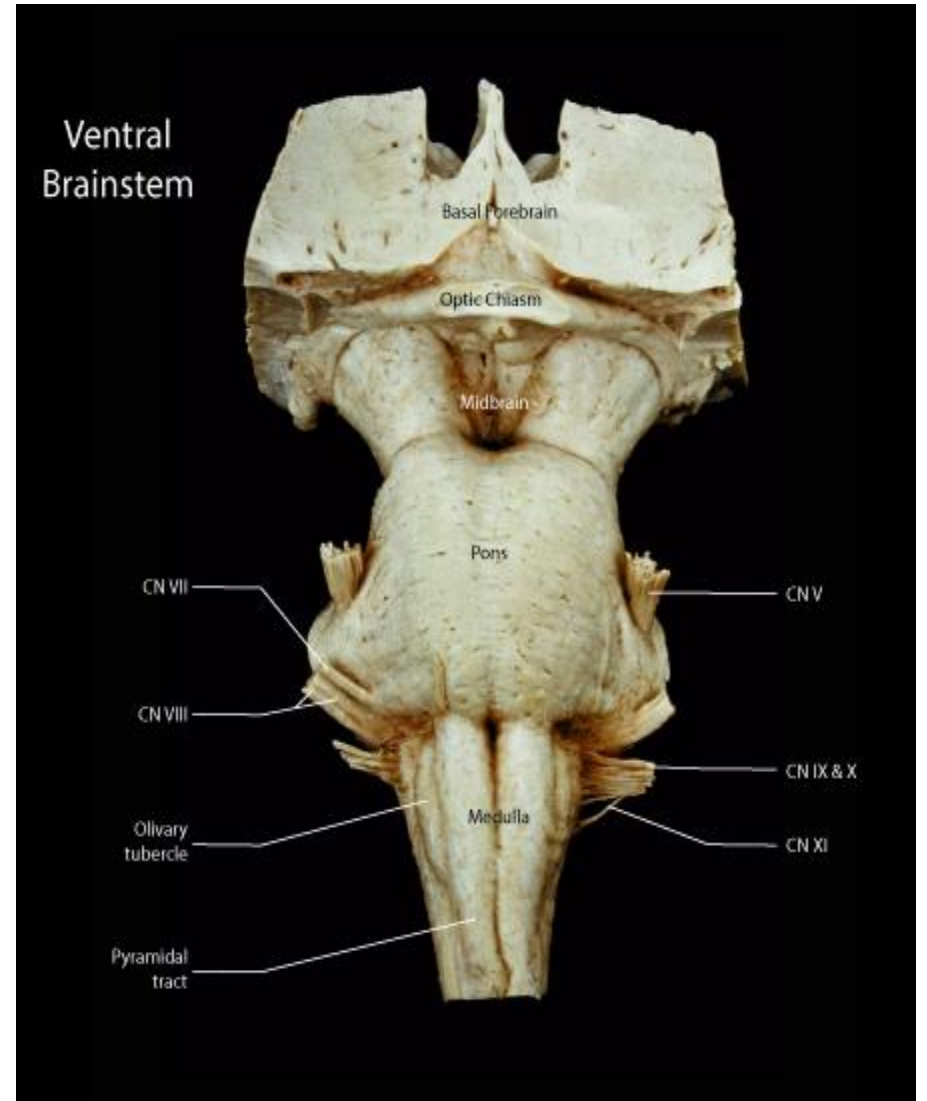
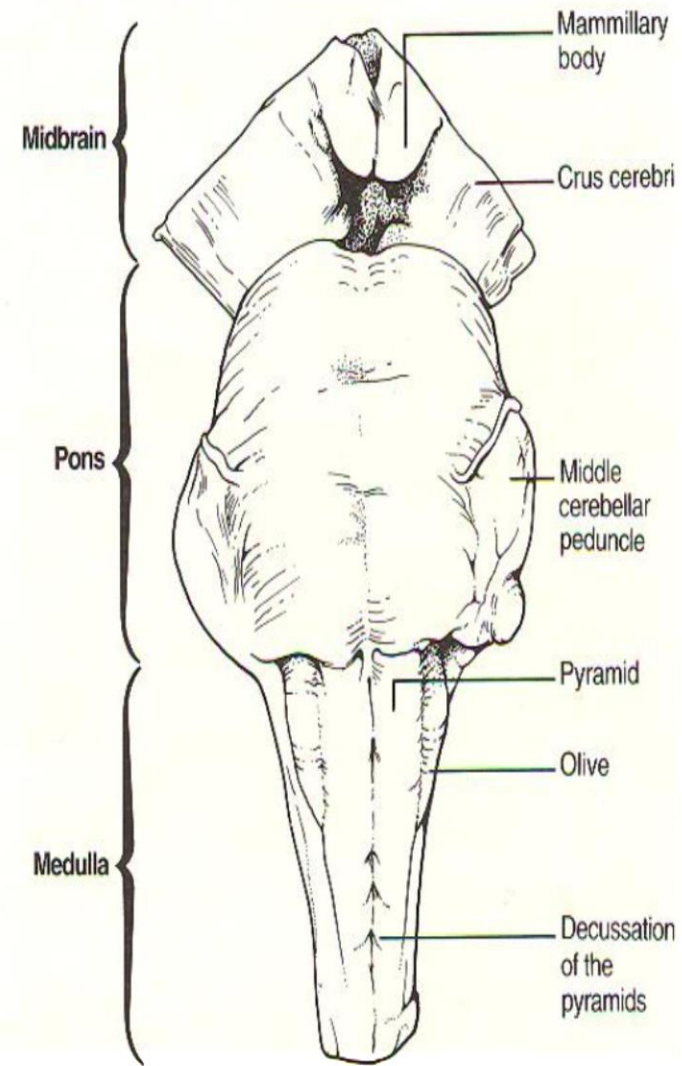
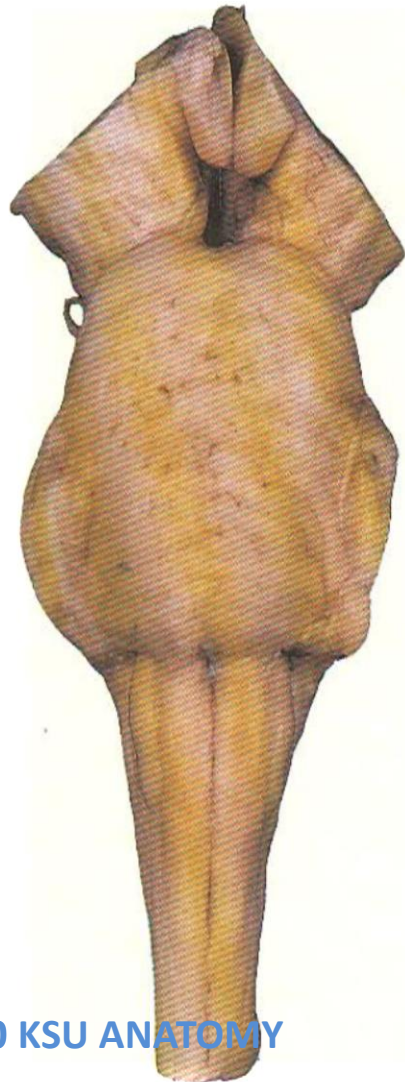


Brain Stem

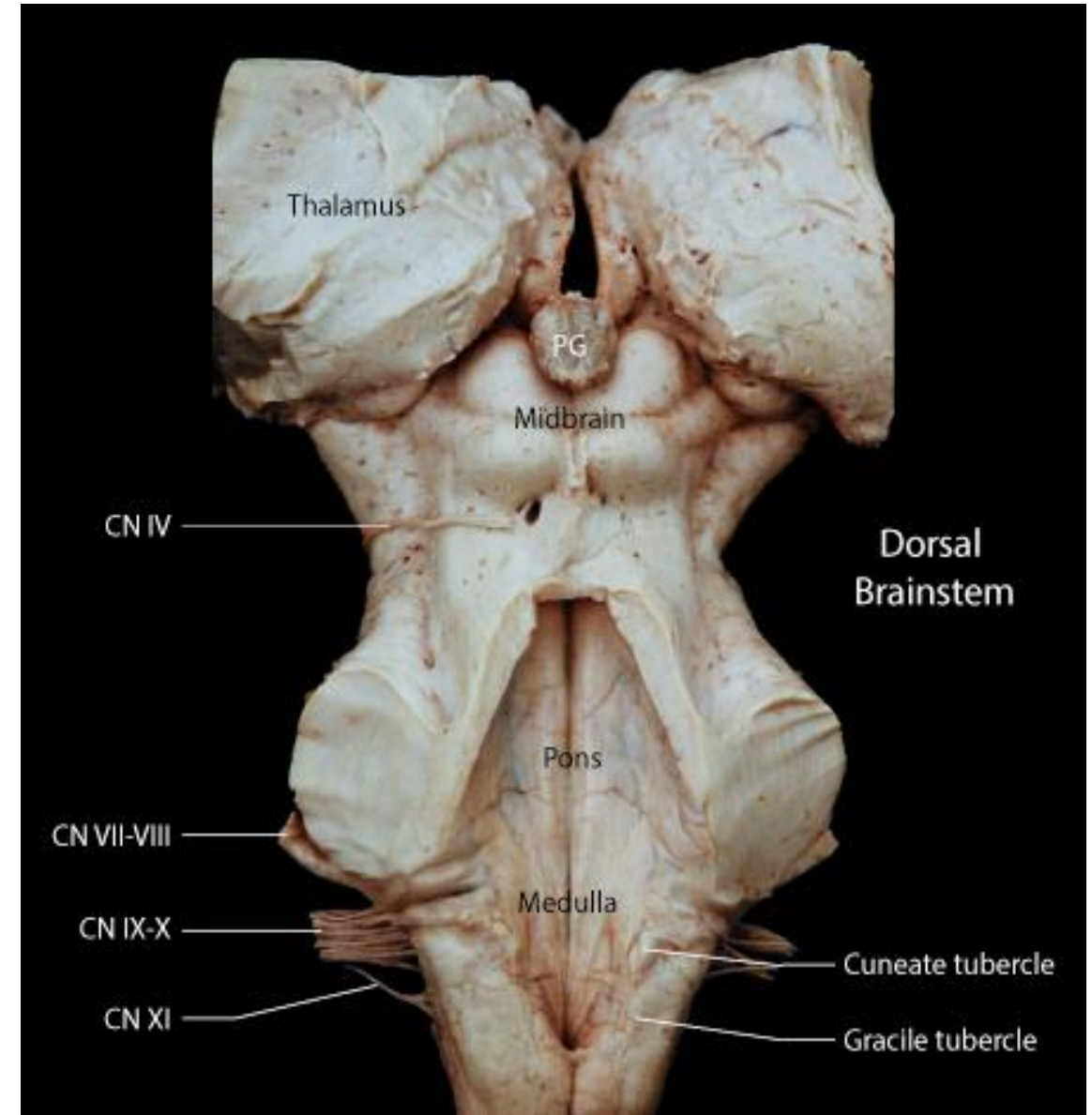
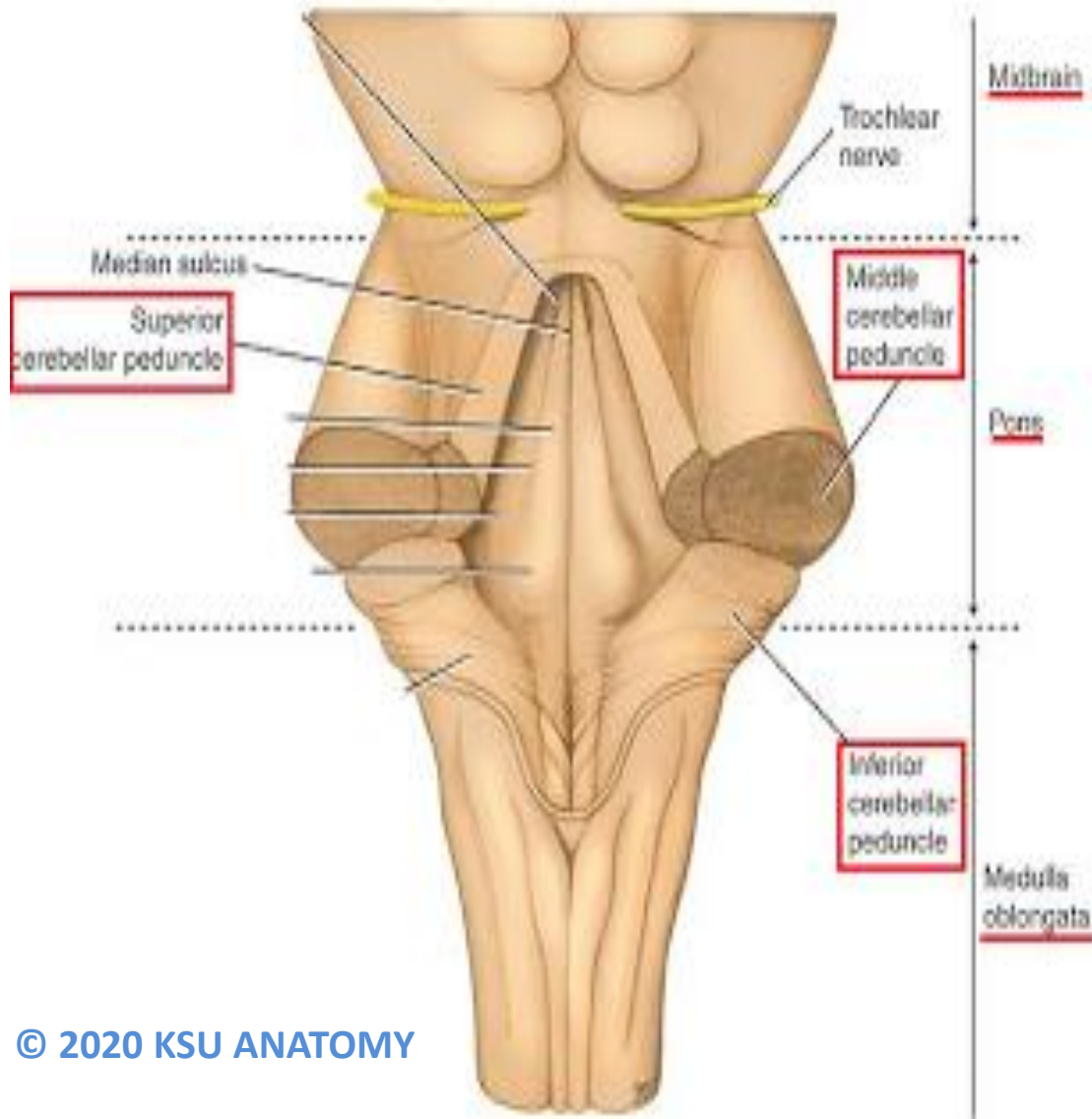




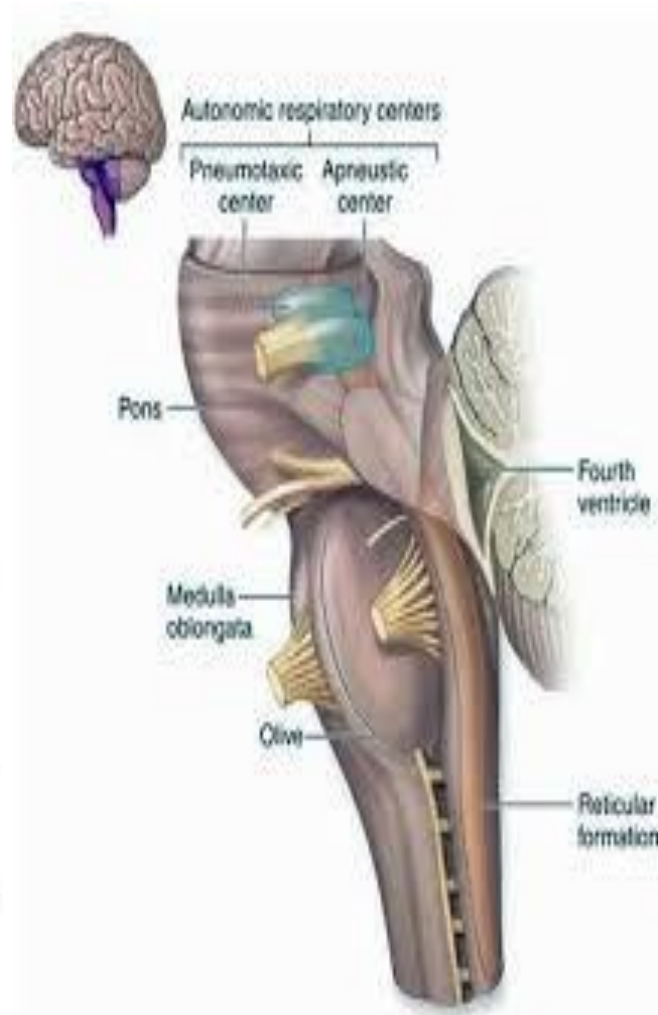
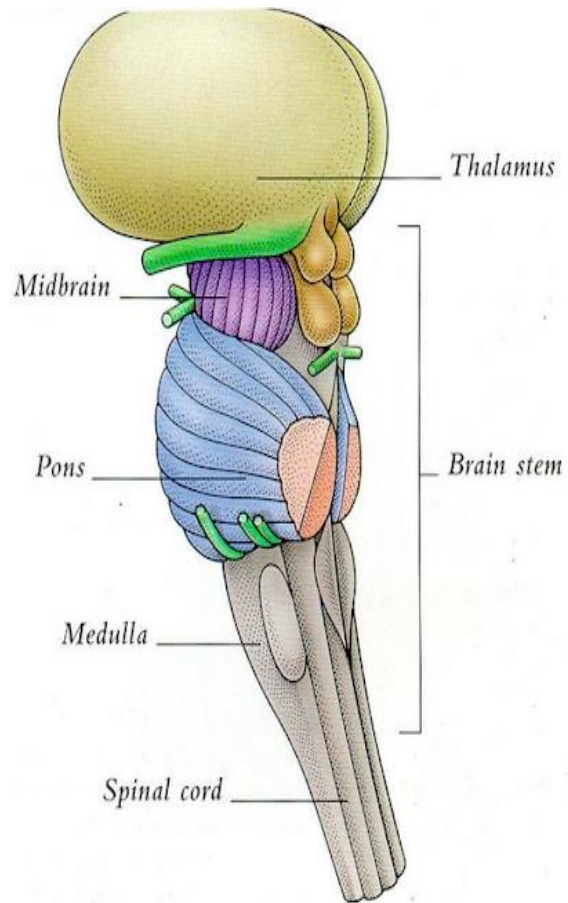
External Features of the Ventral Surface of the Brain Stem



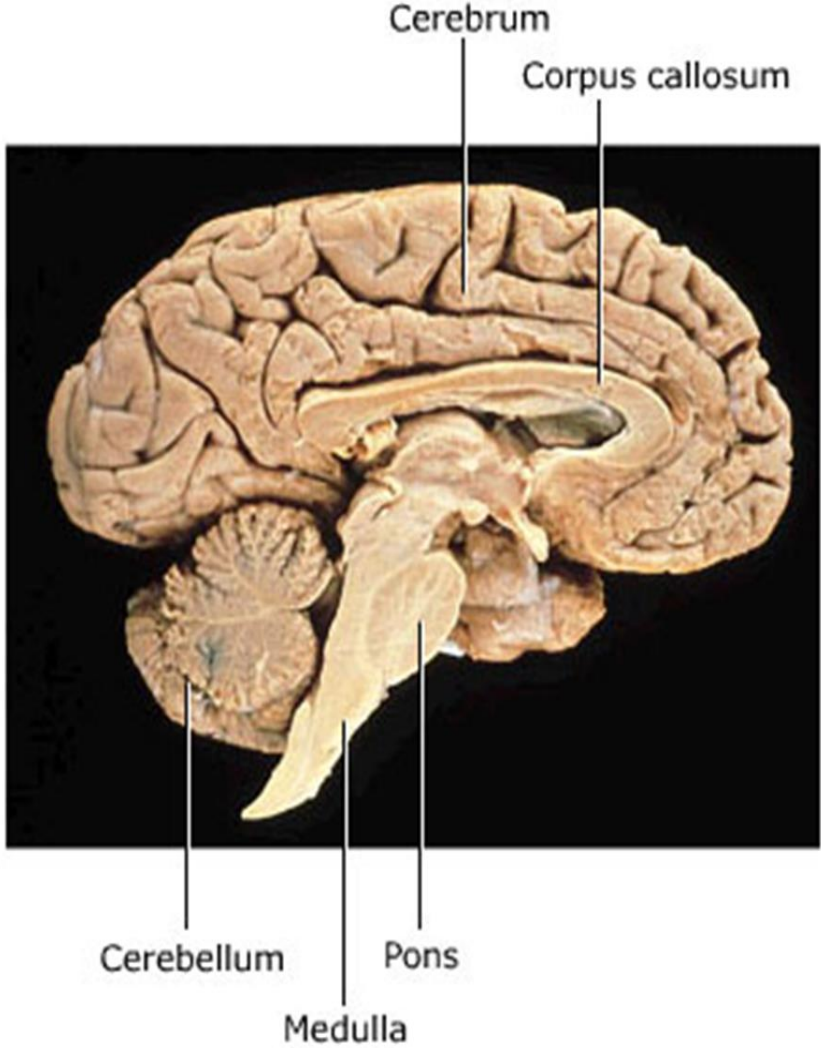
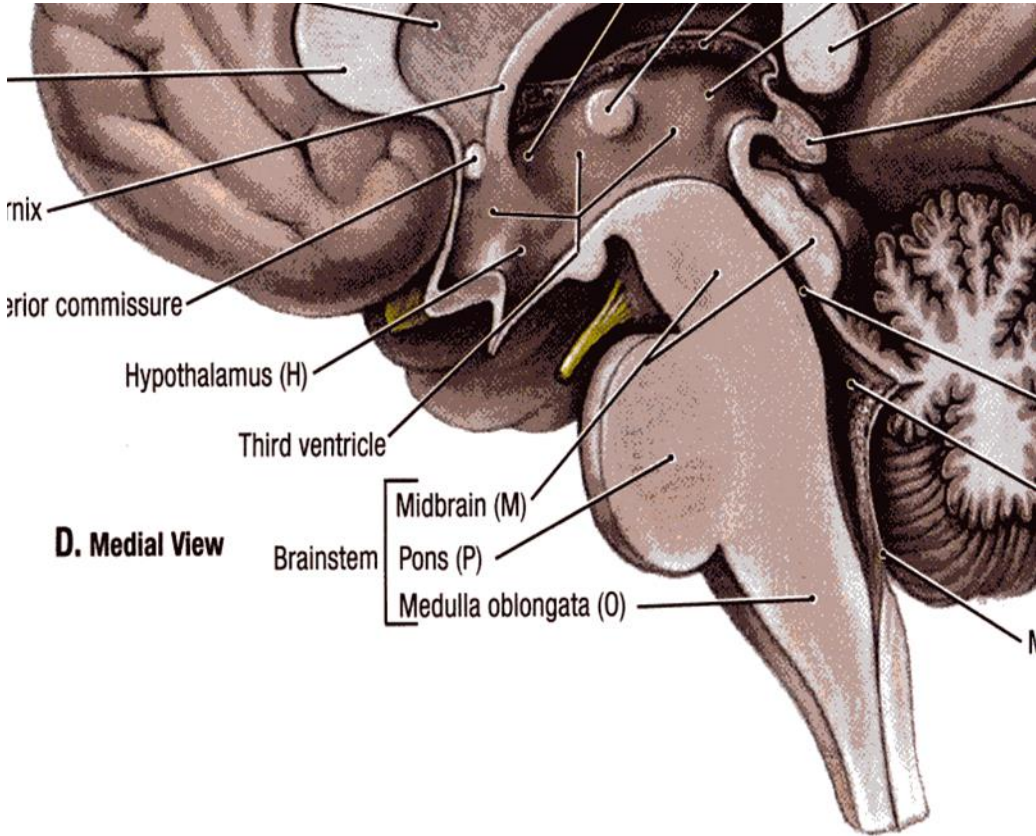
External Features of the Dorsal Surface of the Brain Stem

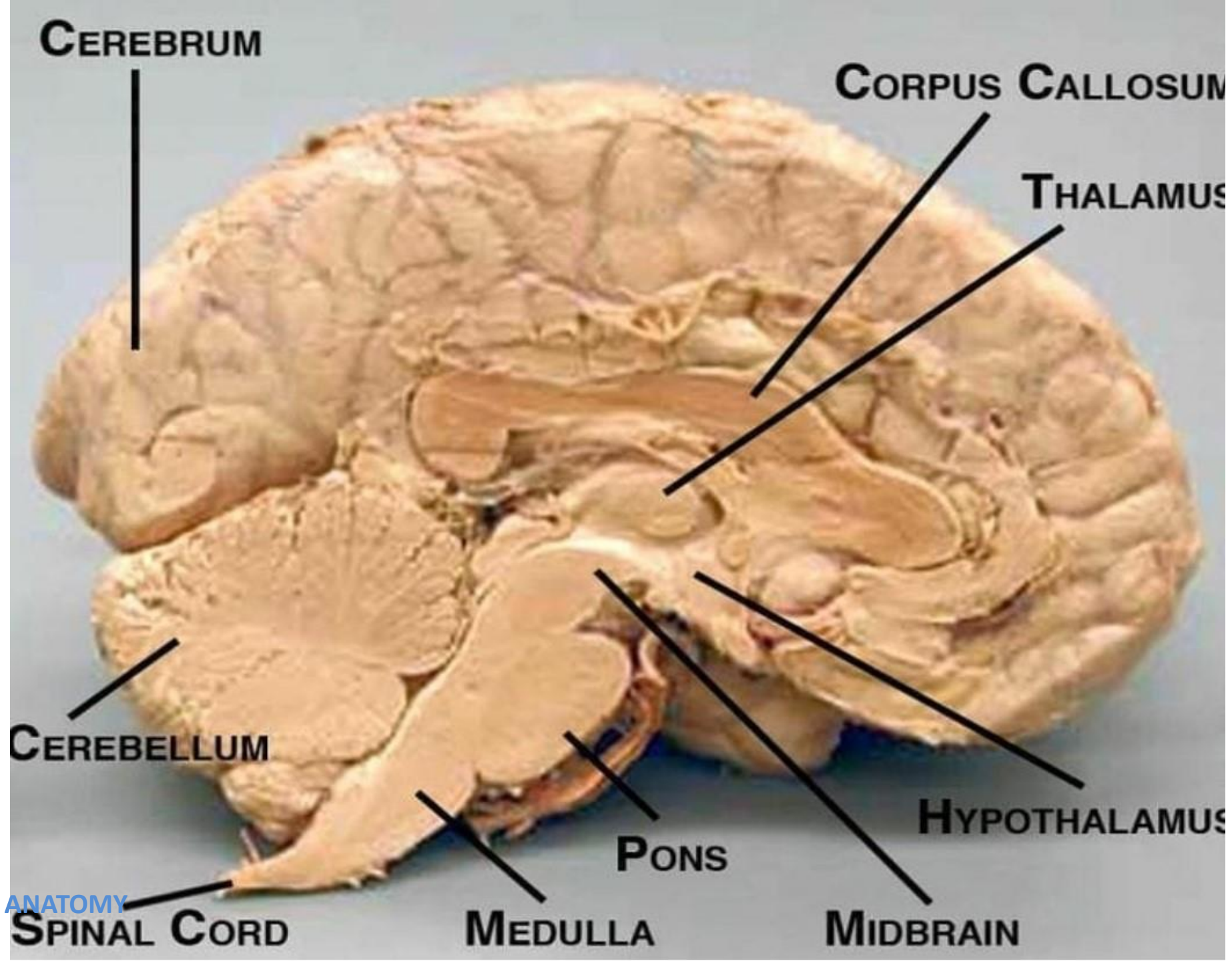


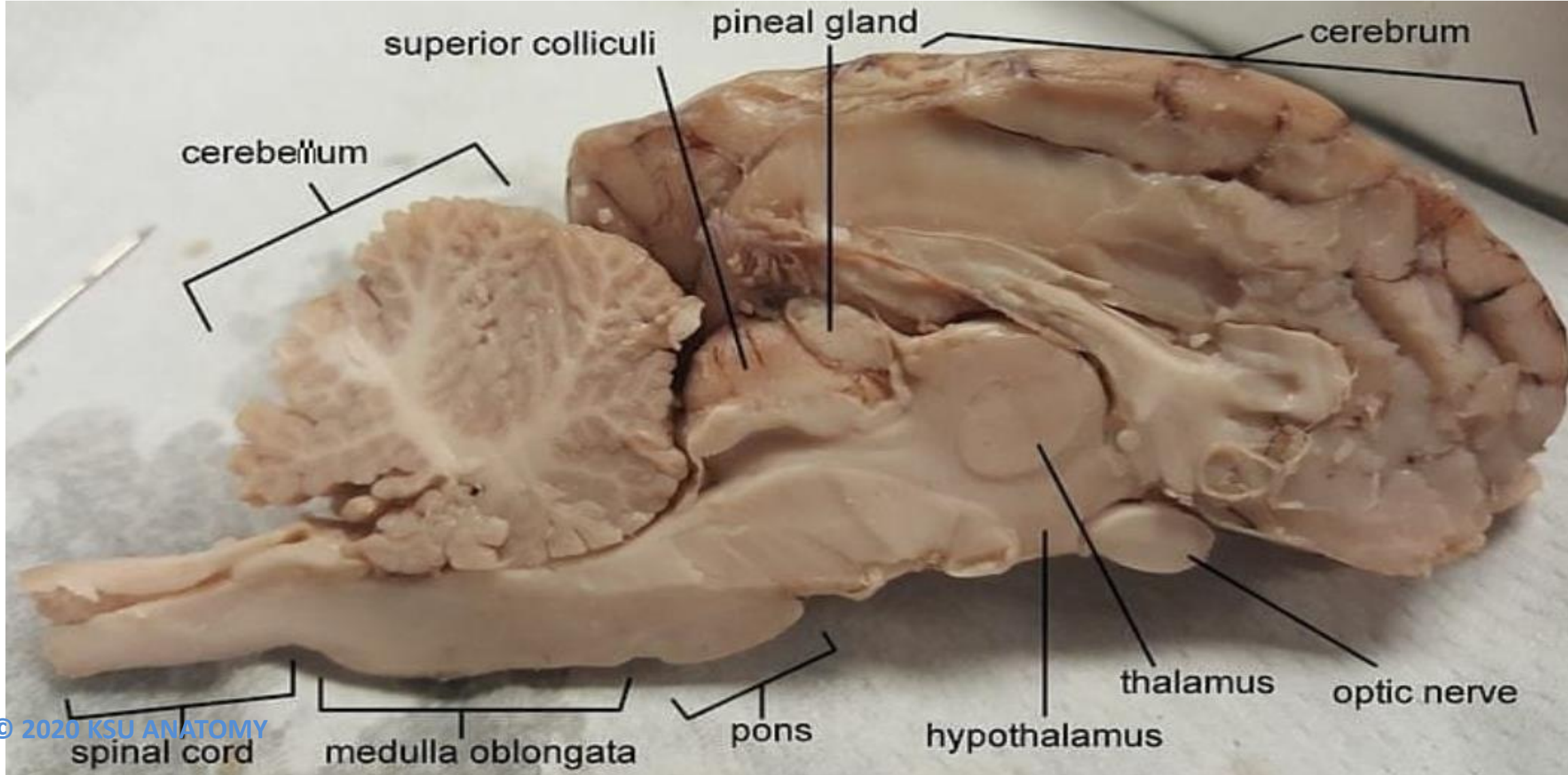
Lateral Surface of the Brain Stem



Sagittal Section of the Brain Stem

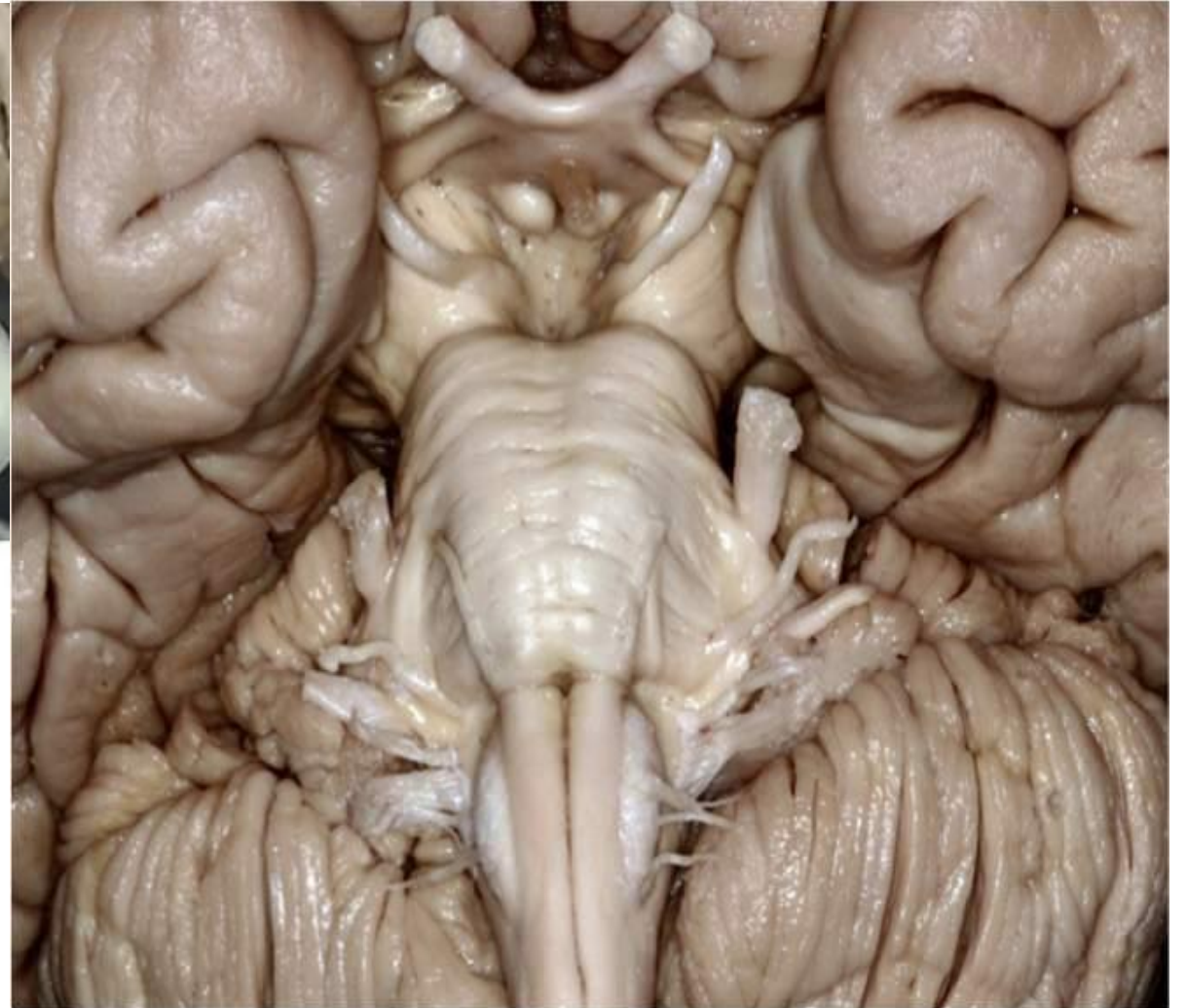
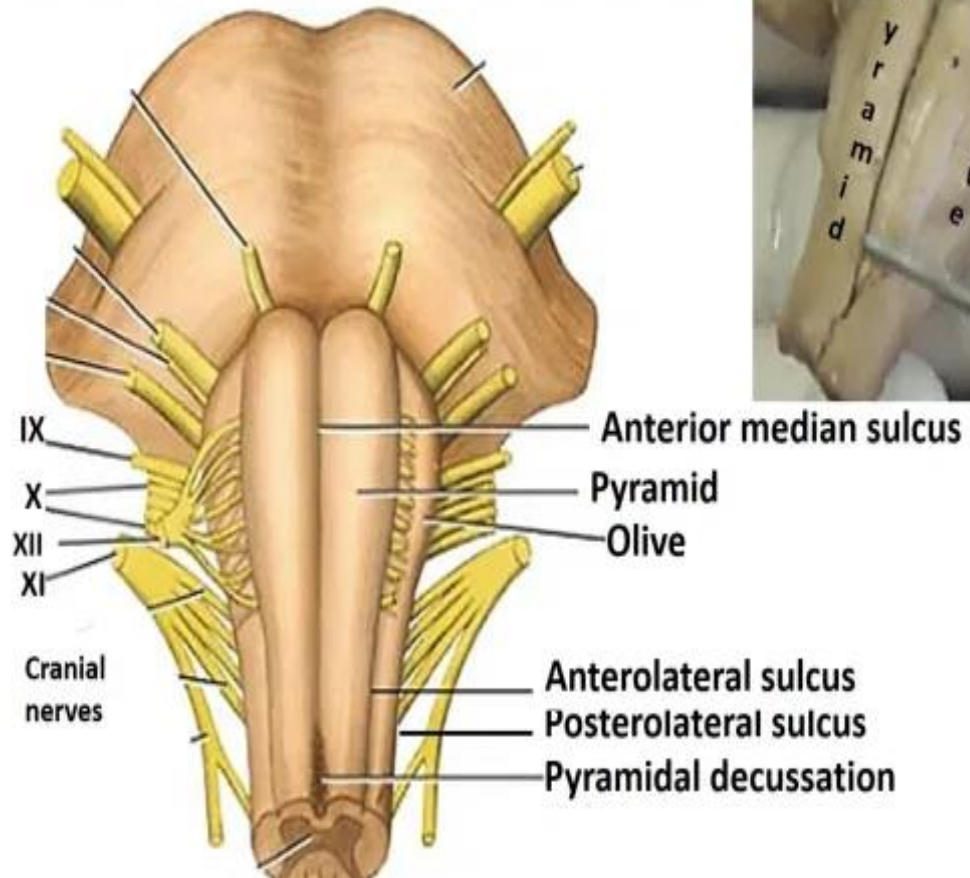




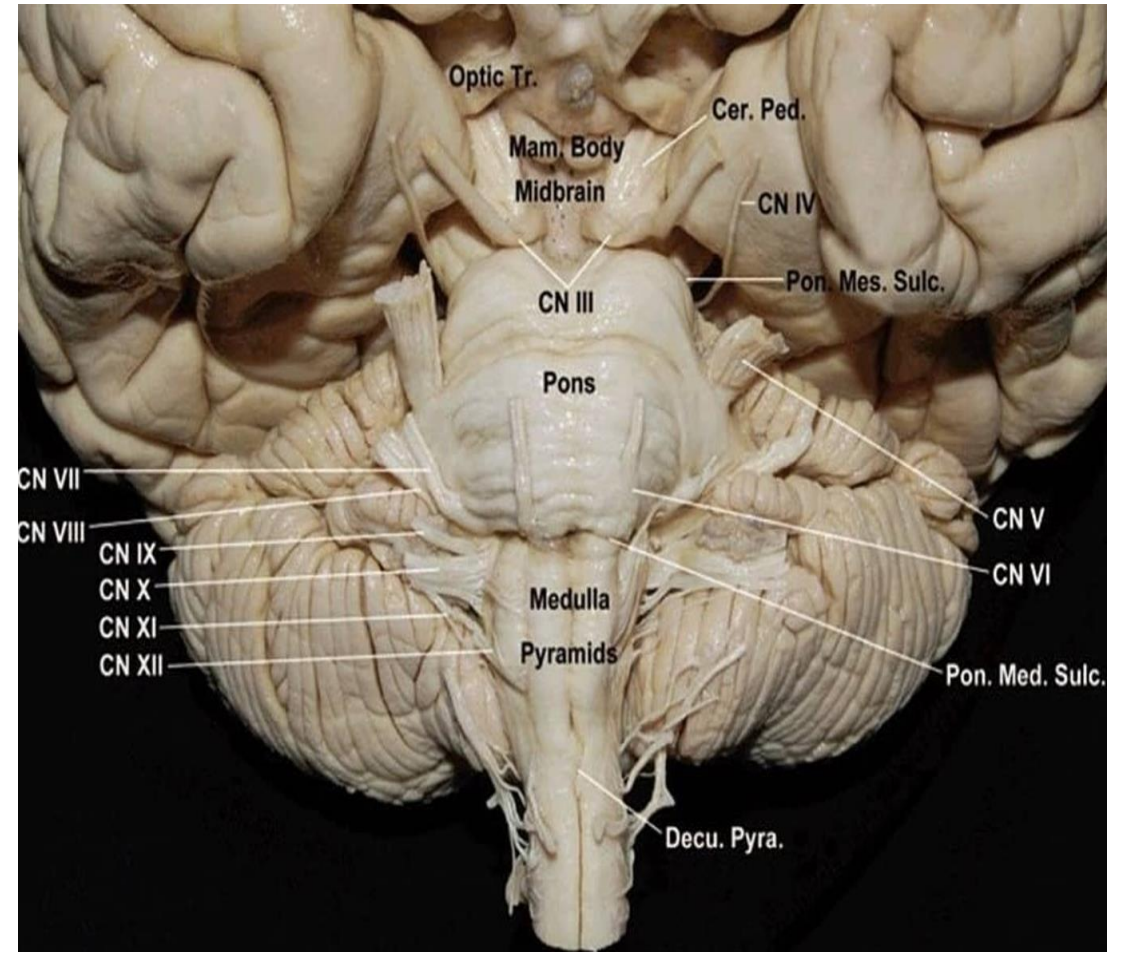
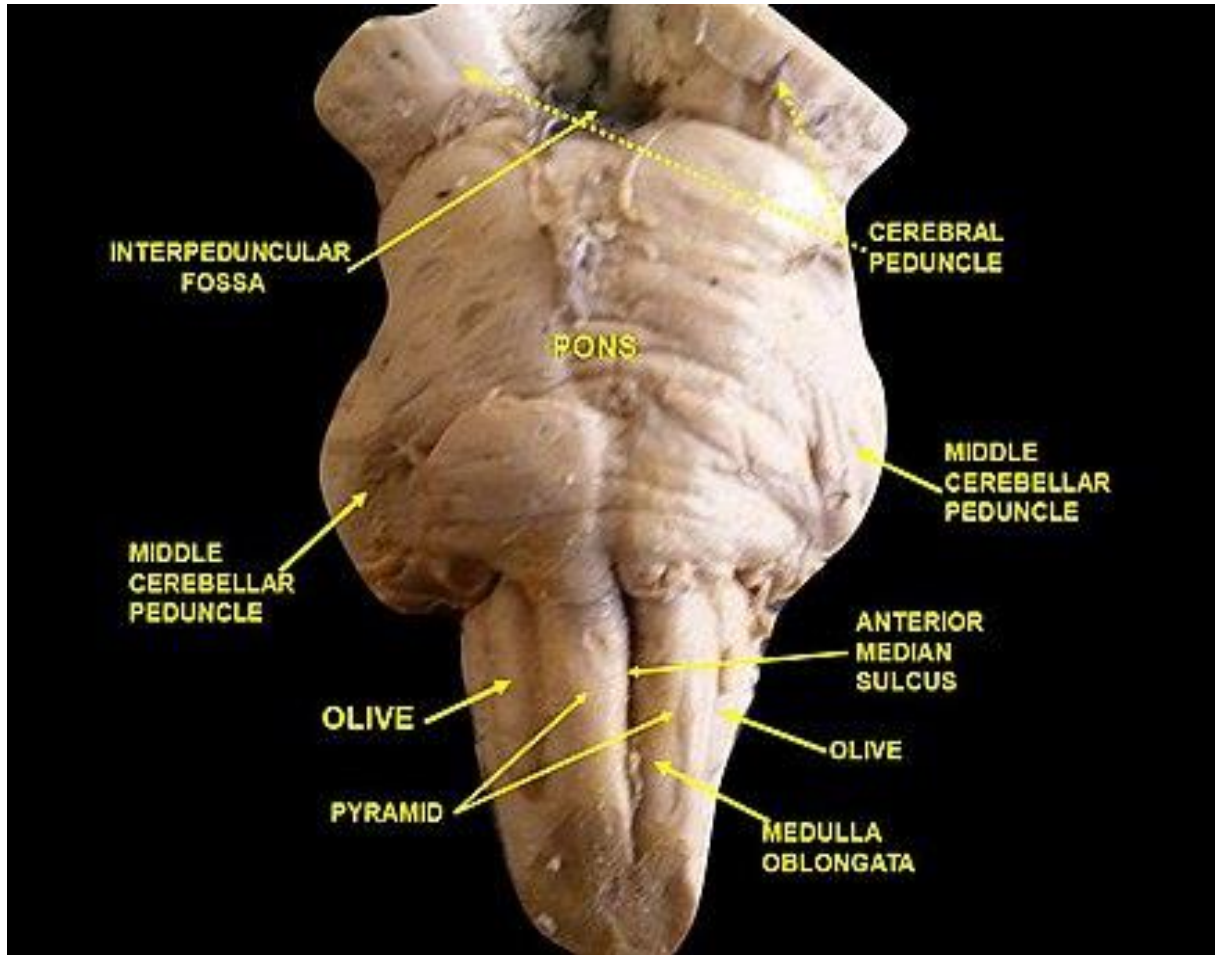


External Features of the Ventral Surface the Medulla Oblongata

External Features: Ventral Surface of Medulla



Medulla Oblongata



Medulla Oblongata Dorsal Surface



Floor of the Fourth ventricle

Medullary part

-Inferior fovea

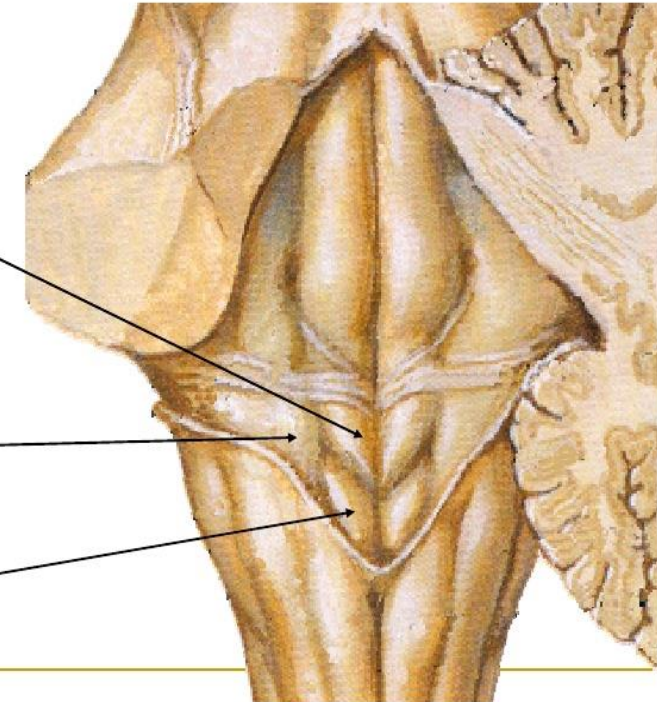
1- Hypoglossal triangle:

overlying hypoglossal nucleus

2- Vestibular triangle

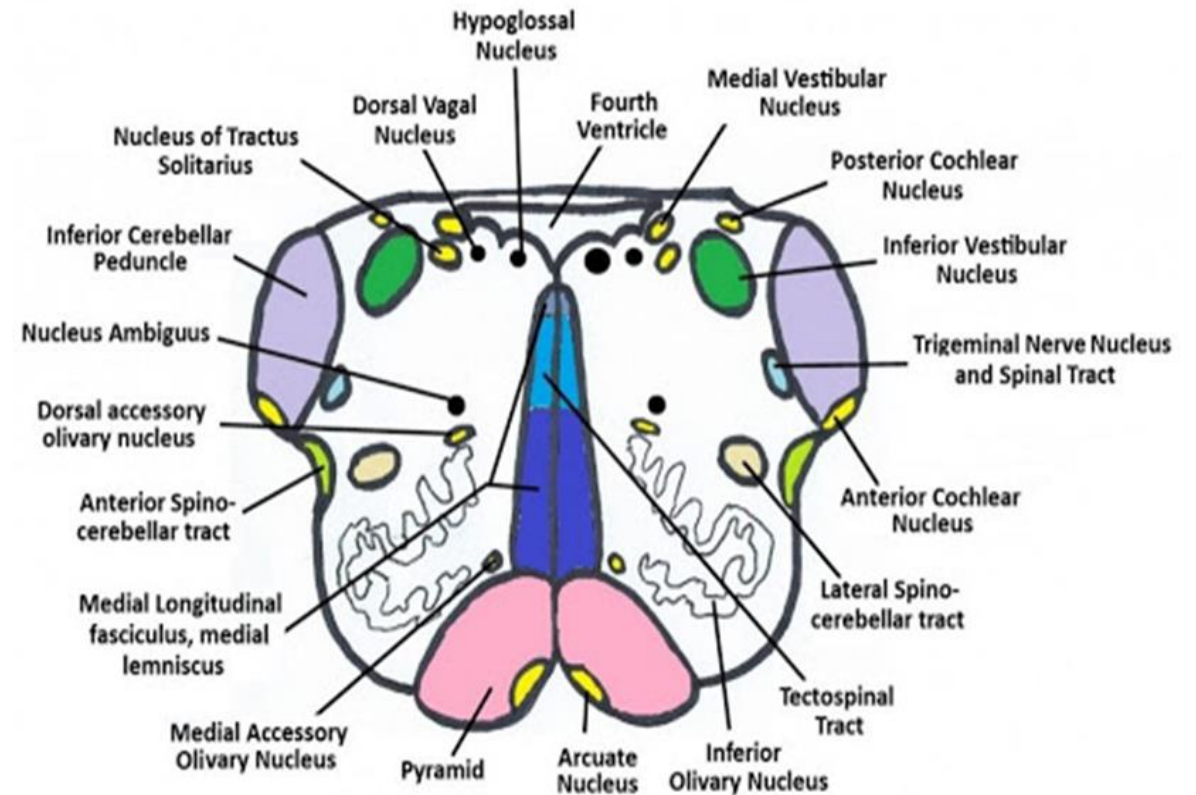
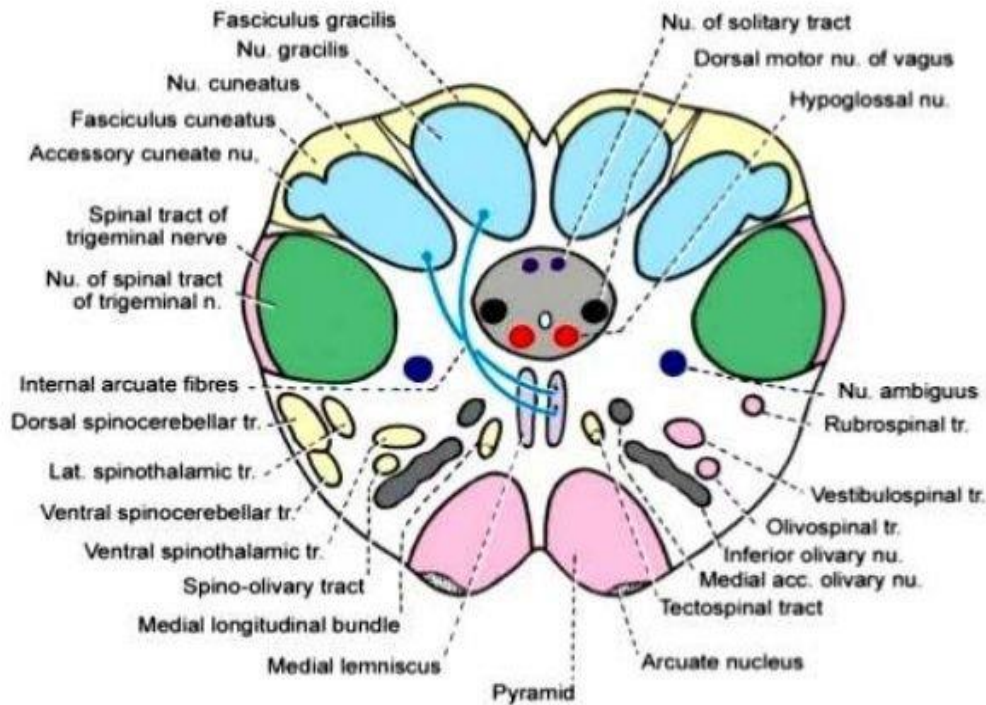
3- Vagal triangle:

overlies dorsal nucleus of vagus nerve

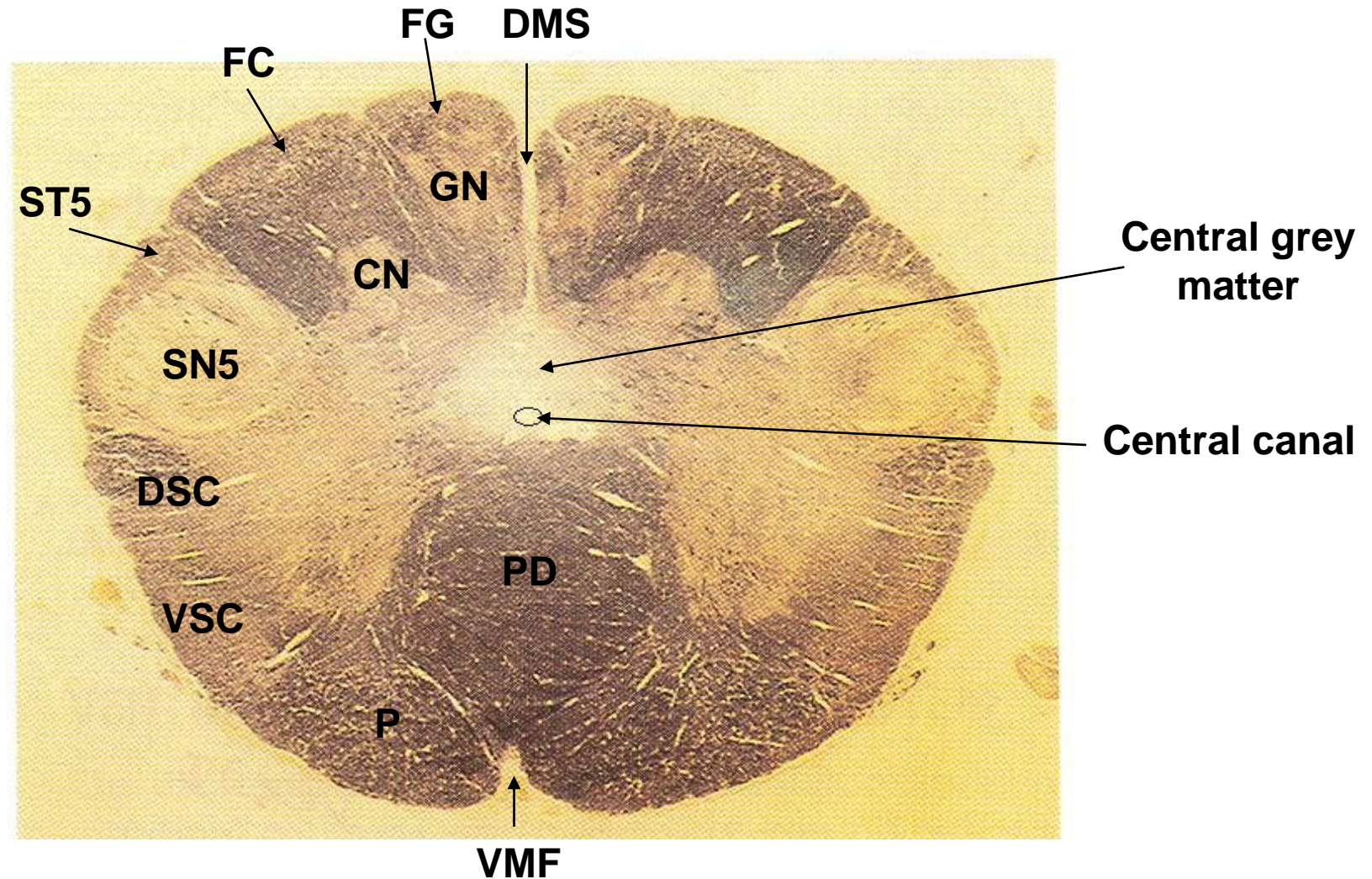


Medulla Oblongata Internal Structures

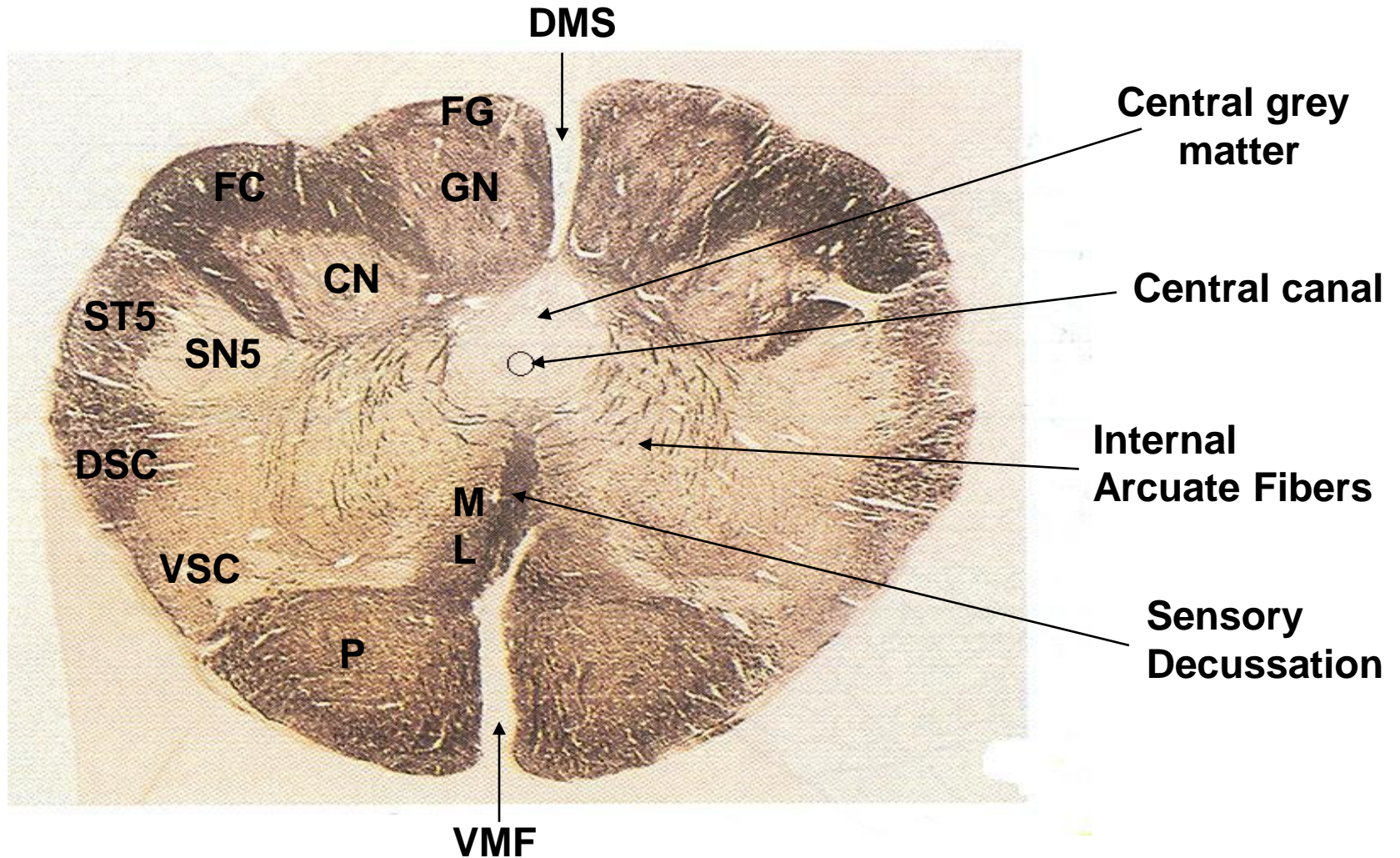
Cross section at the level of Lemniscal decussation



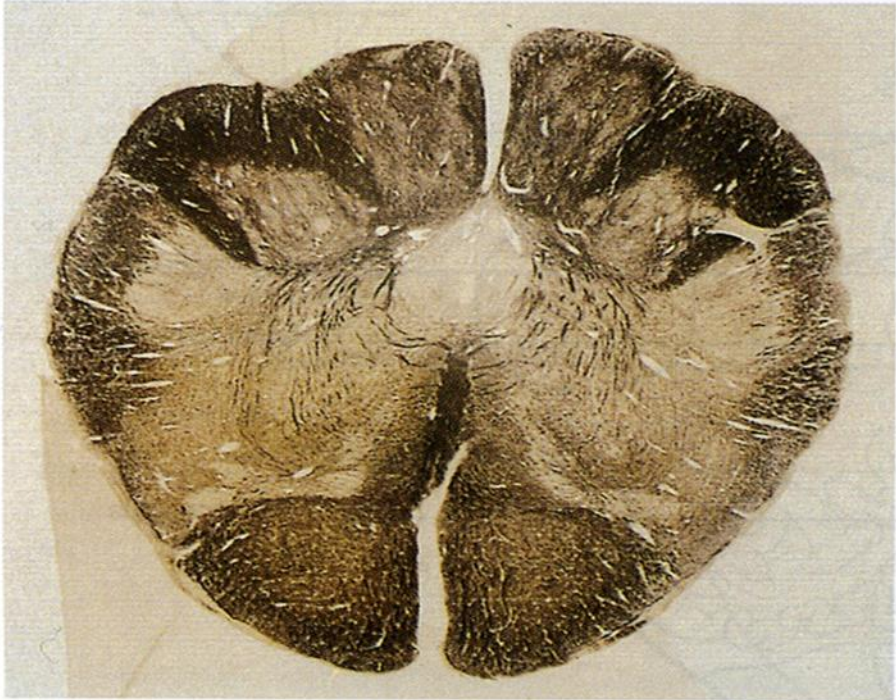
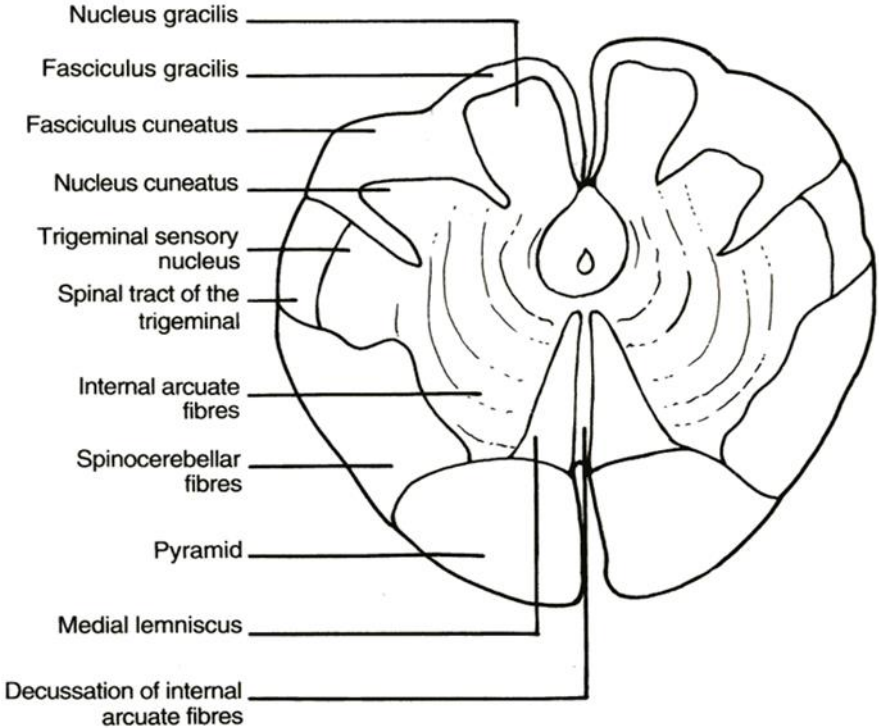
Caudal Medulla (Level of Pyramidal Decussation)



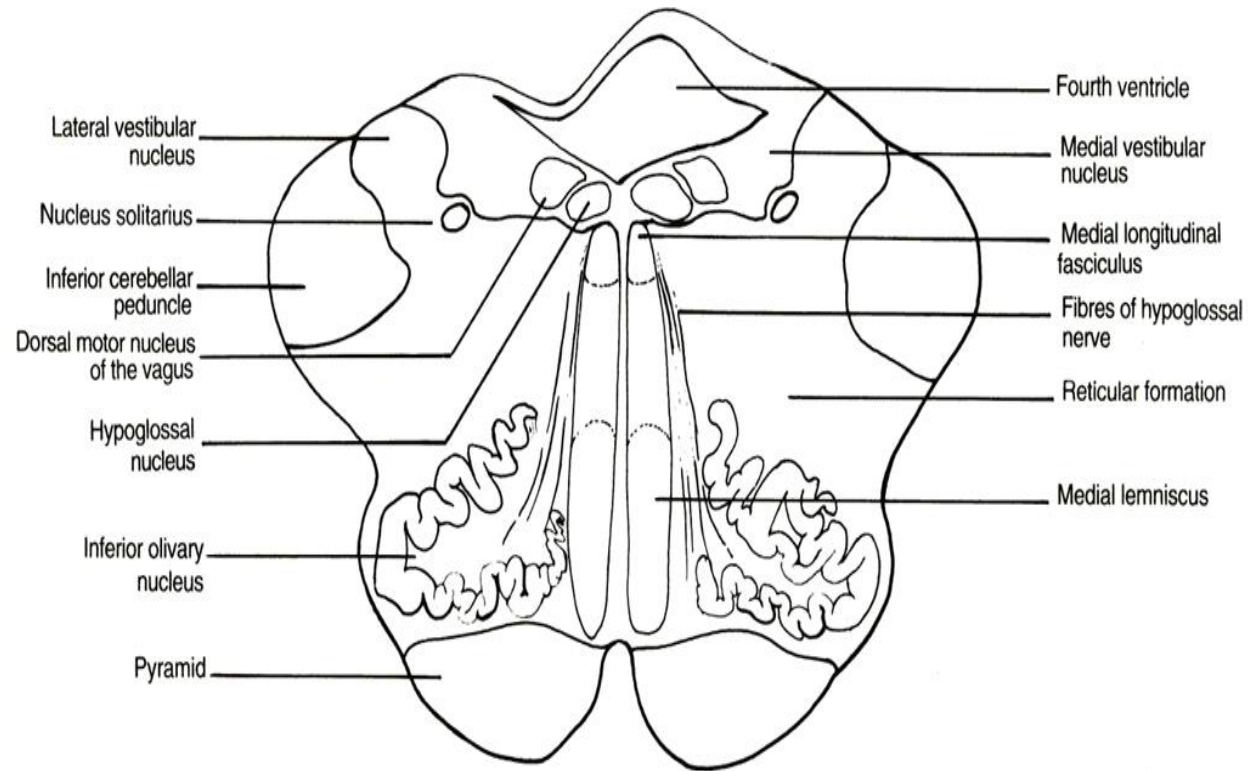
Mid Medulla (Level of Sensory Decussation)



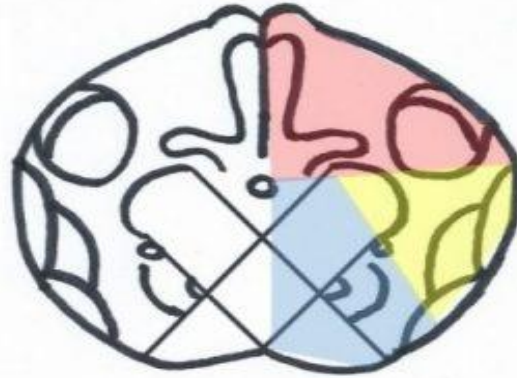
Internal Structures of Lower Level of M.O. (Closed)



Internal Structures of Upper Level of M.O. (Open)

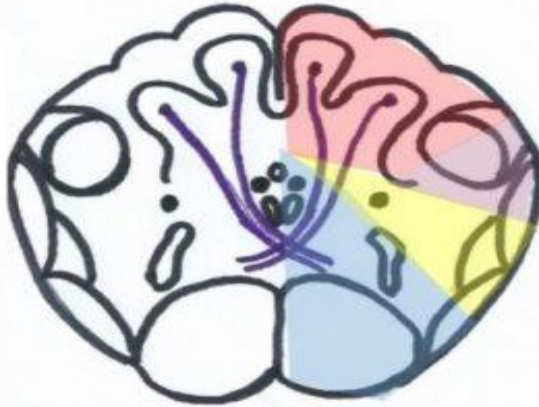


Level of the decussation of the pyramids

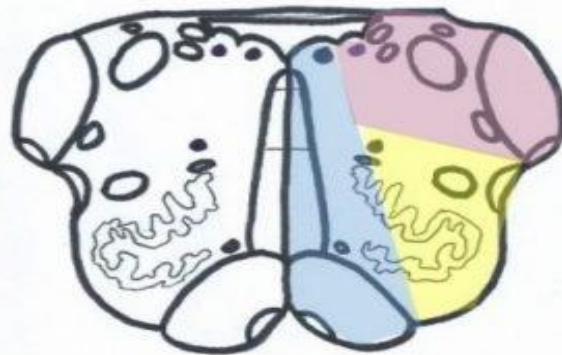


- Anterior Spinal Artery
- Vertebral Artery
- Posterior Spinal Artery
- Posterior Inferior Cerebellar

Level of the decussation of the medial lemniscus



Level of the olives



Thank You

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