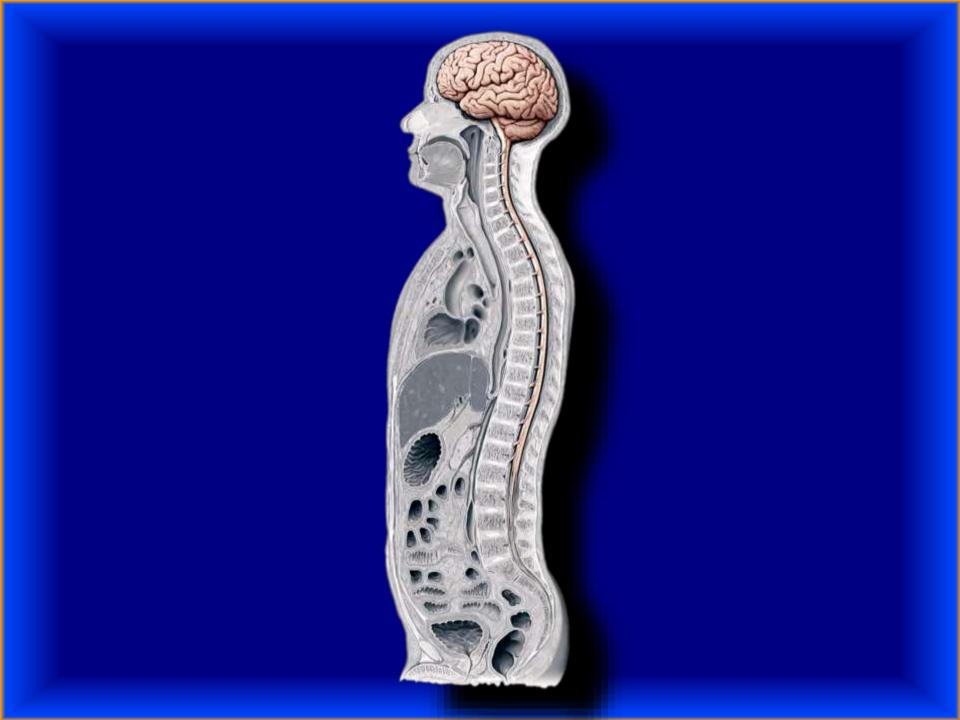
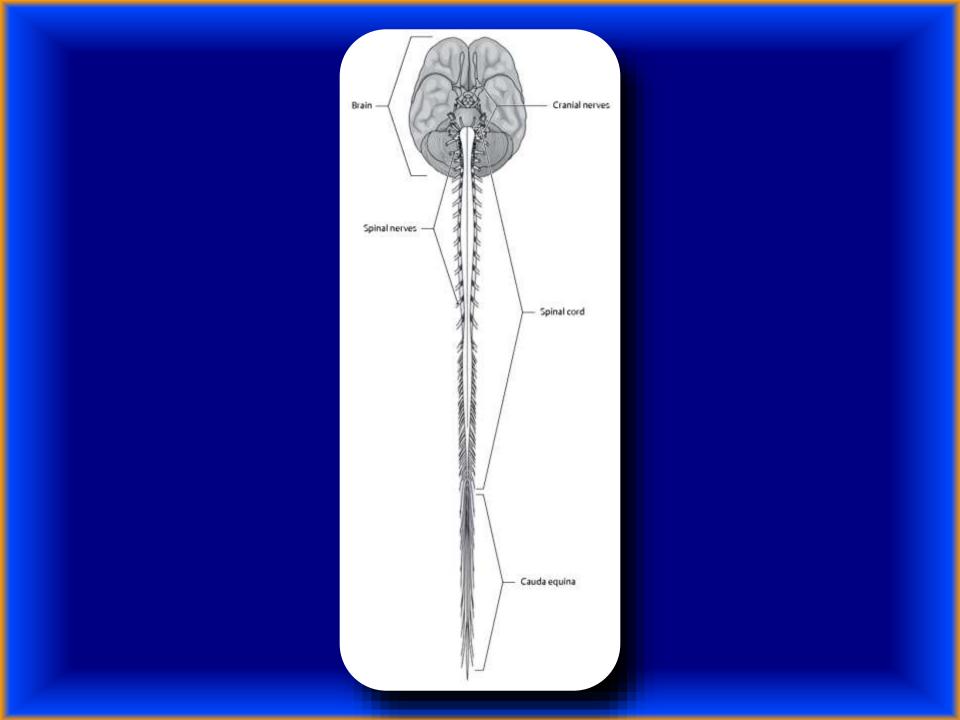


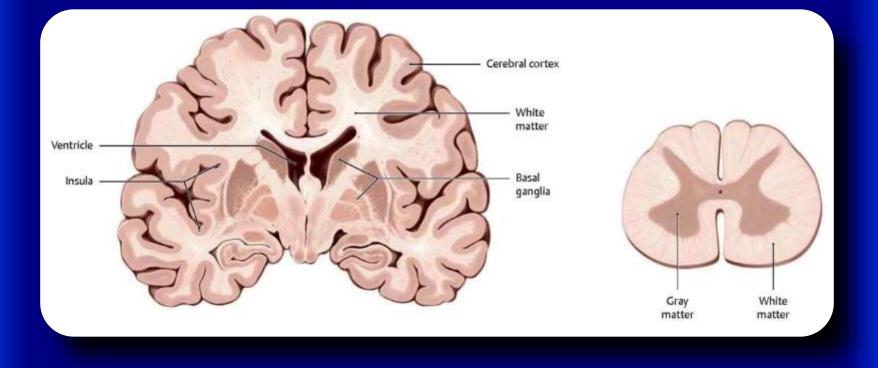
Central nervous system – general overview

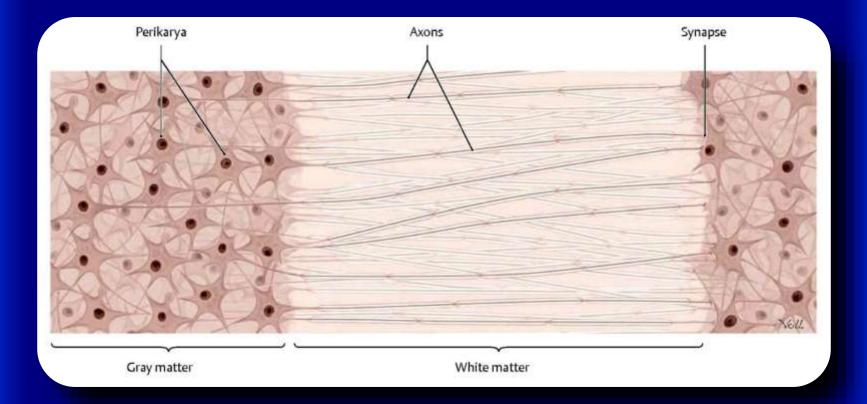


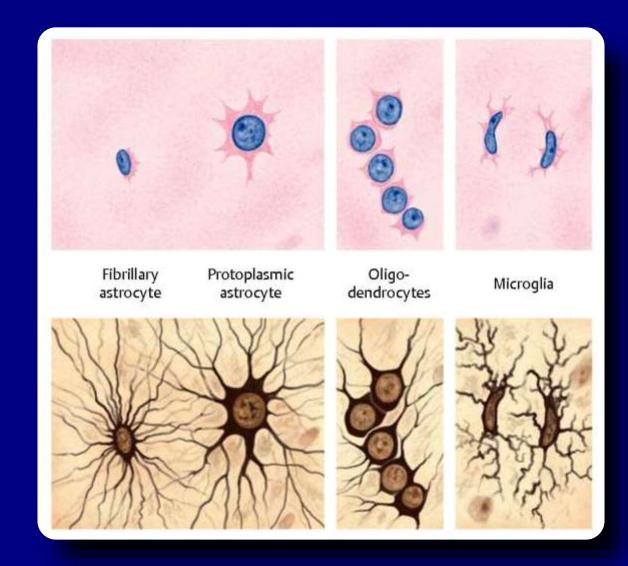
Multimedial Unit of Dept. of Anatomy JU

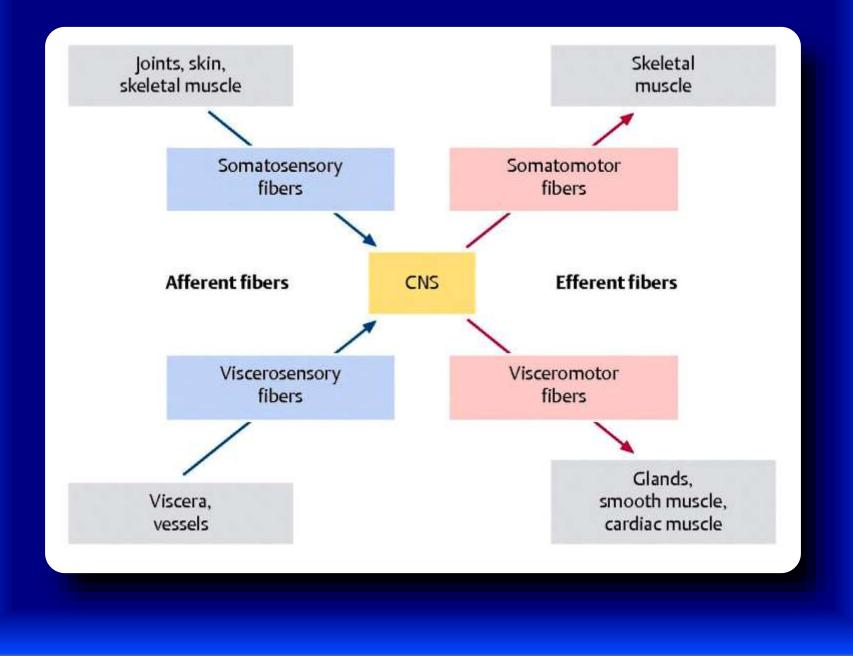


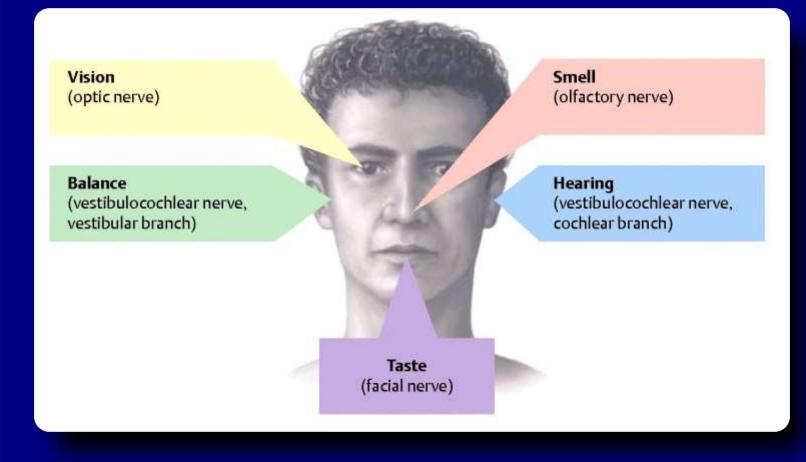


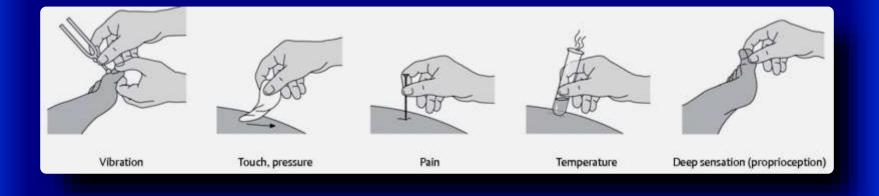


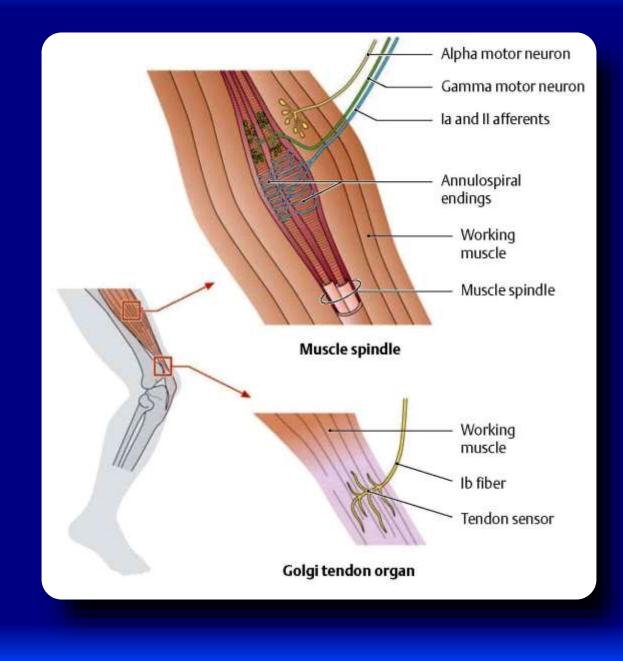


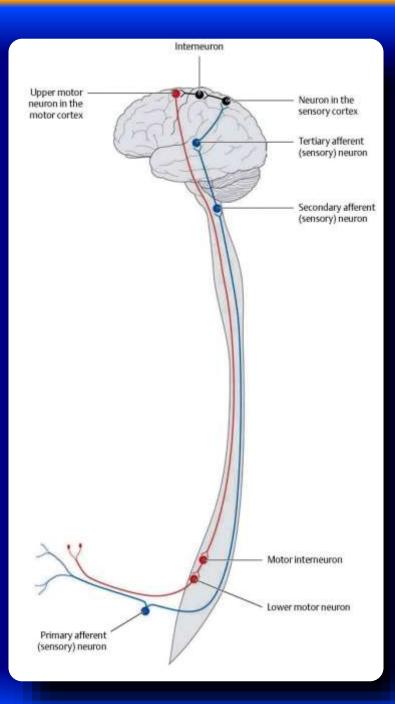


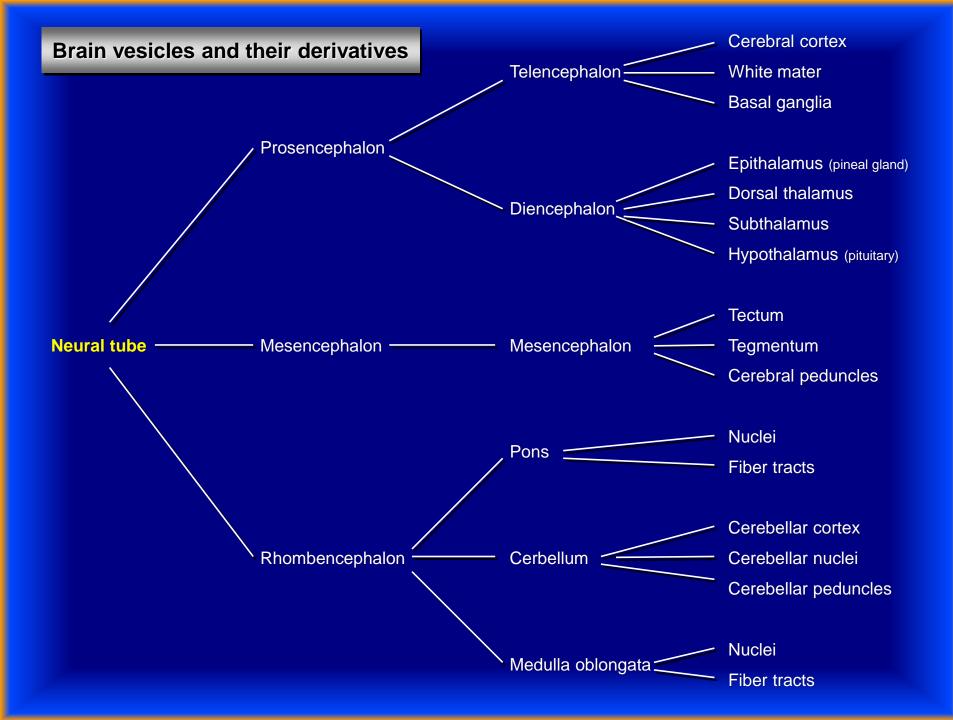


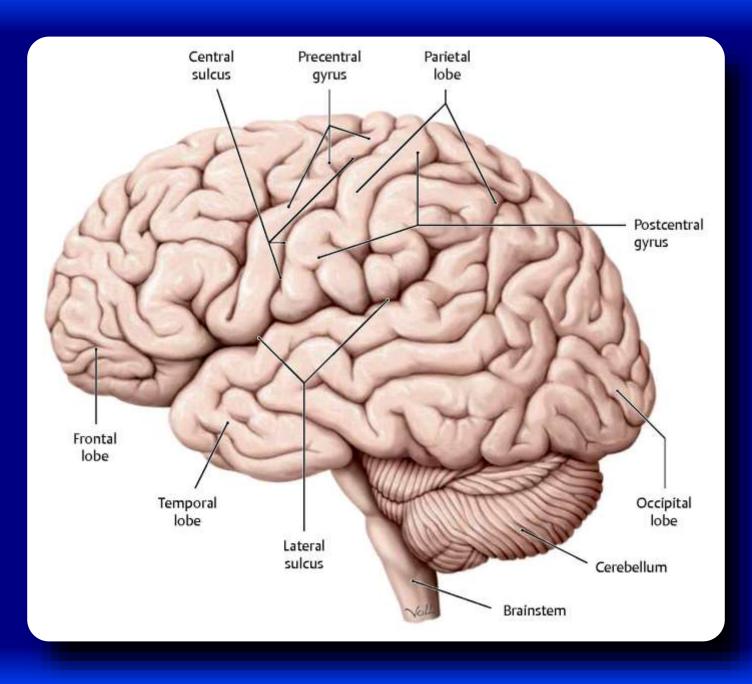


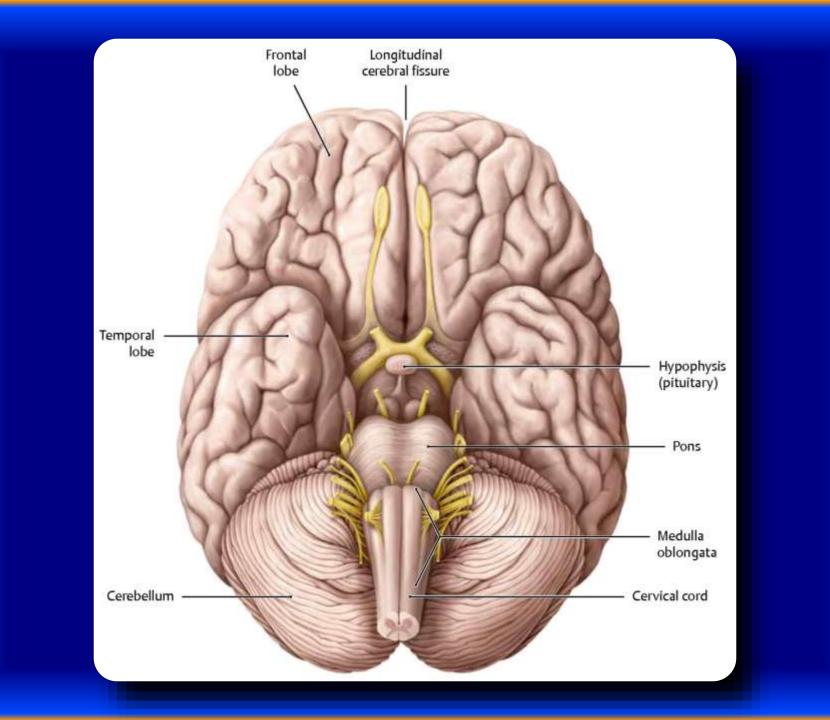


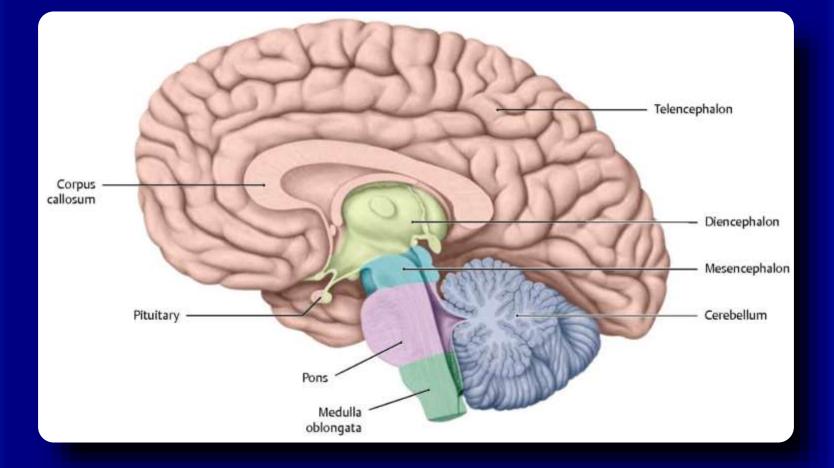


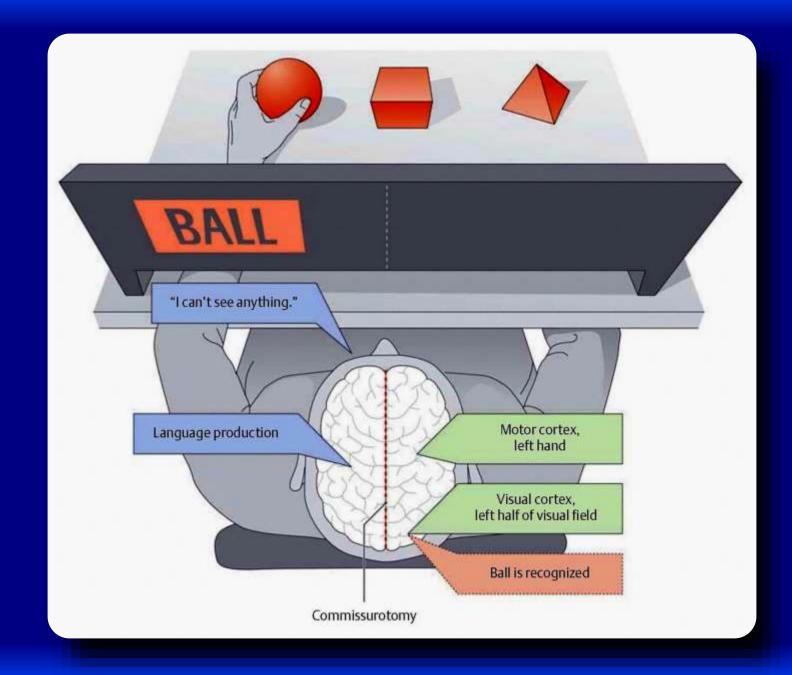












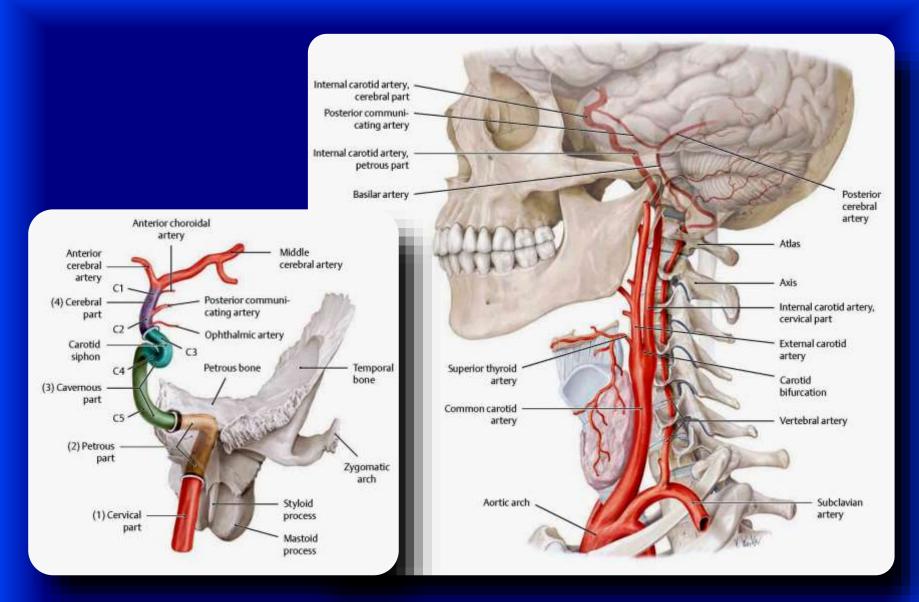


BLOOD SUPPLY

OF THE CENTRAL NERVOUS SYSTEM

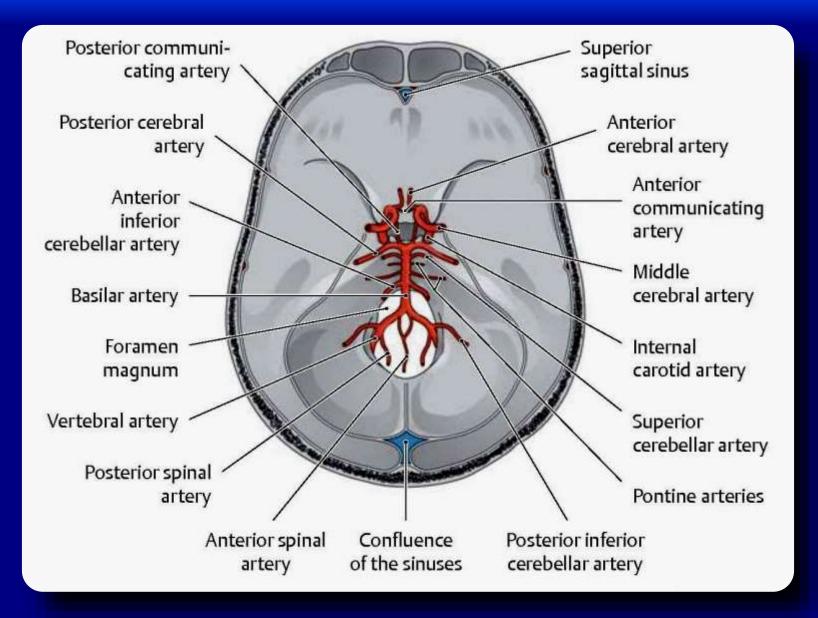


Multimedial Unit of Dept. of Anatomy JU

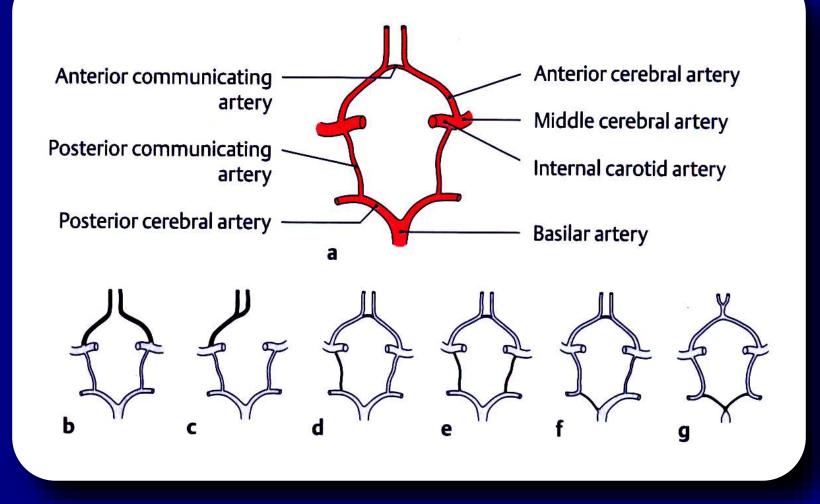


The four anatomical divisions of the internal carotid artery

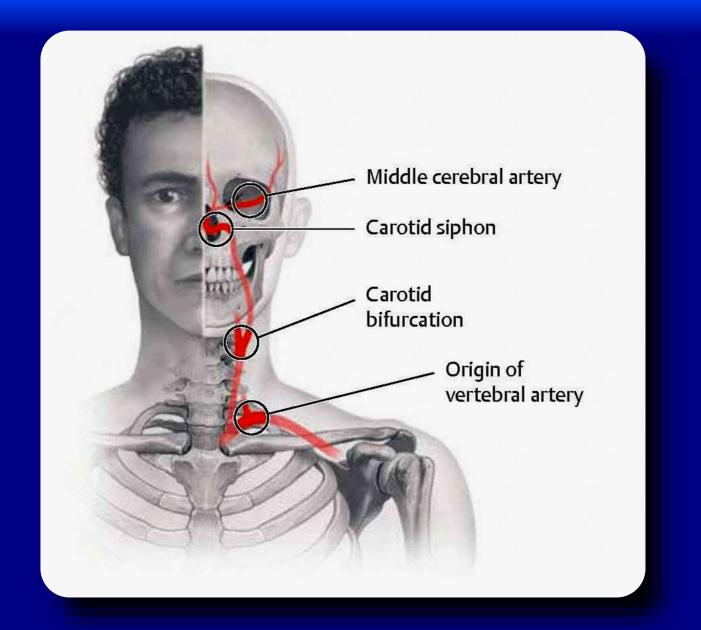
Overview of the arterial supply to the brain



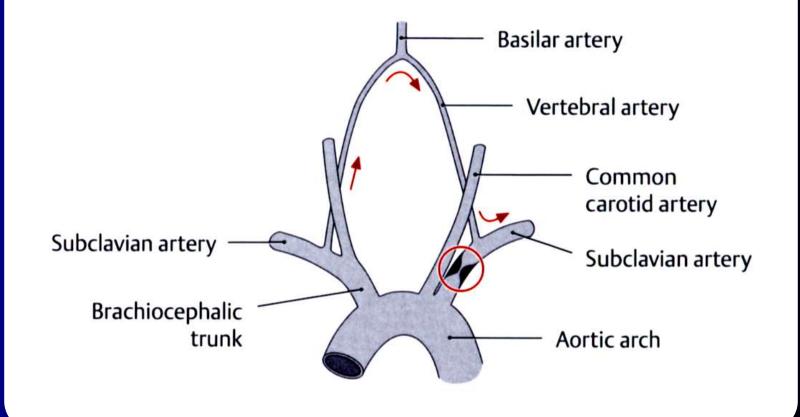
Projection of the circle of Willis onto the base of the skull



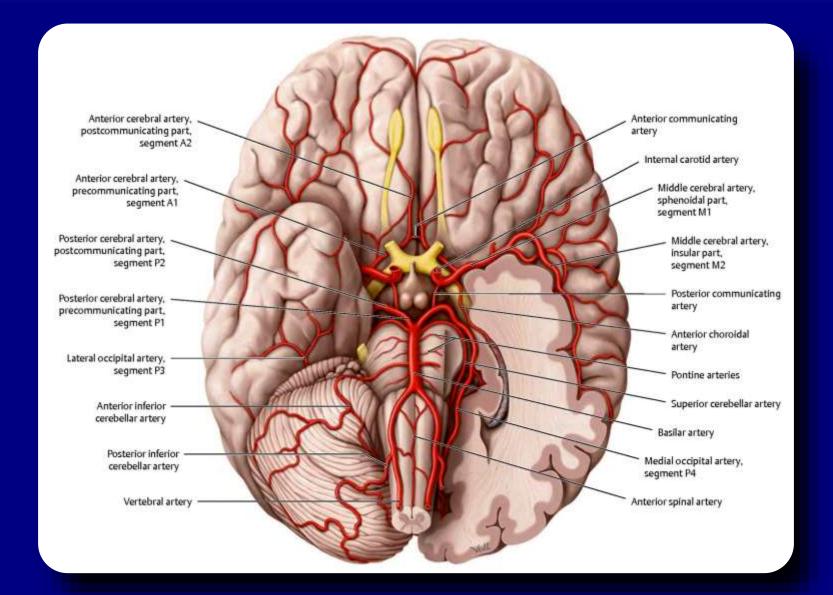
Variants of the circle of Willis



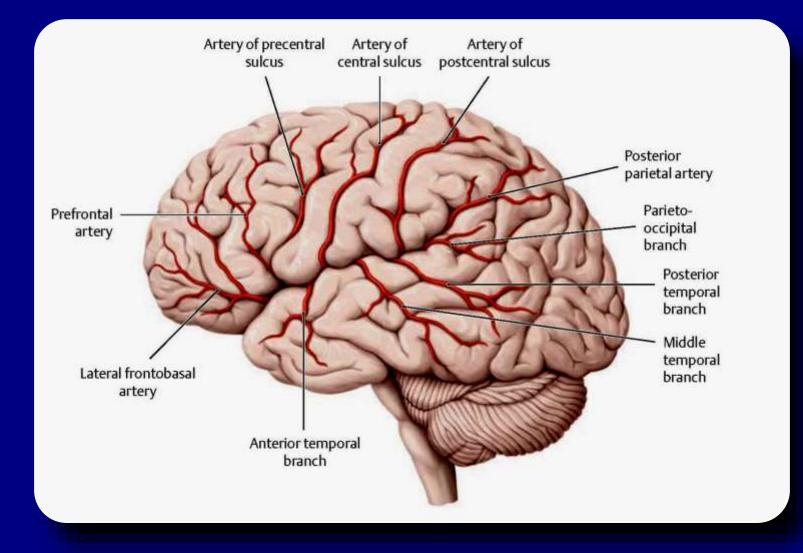
Stenoses and occlusions of arteries supplying the brain



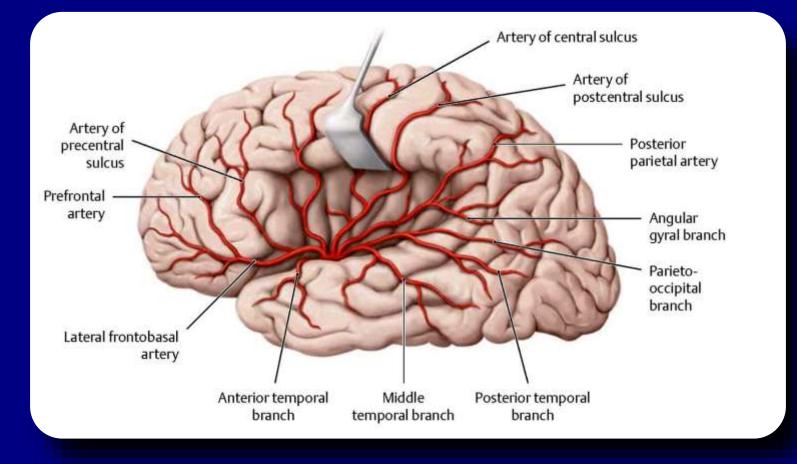
Anatomical basis of subclavian steal syndrome



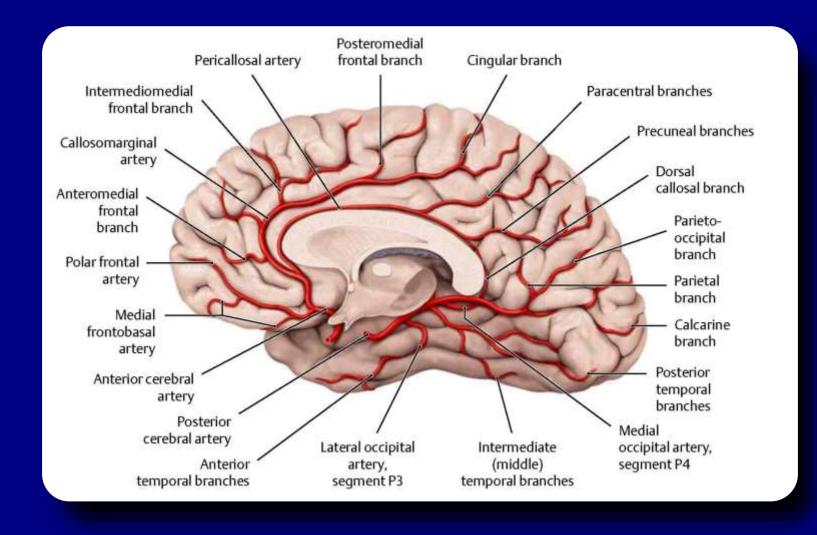
Arteries at the base of the brain



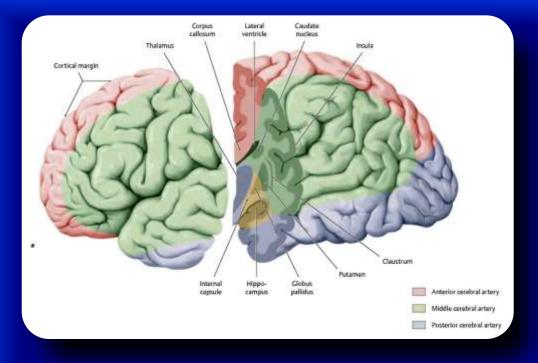
Terminal branches of the middle cerebral artery on the lateral cerebral hemisphere

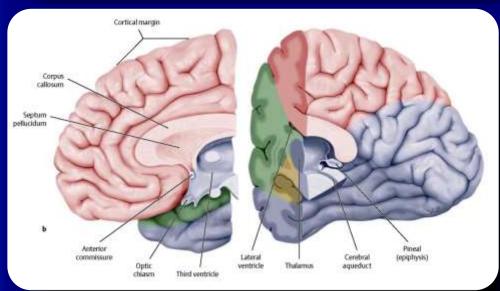


Course of the middle cerebral artery in the interior of the lateral sulcus

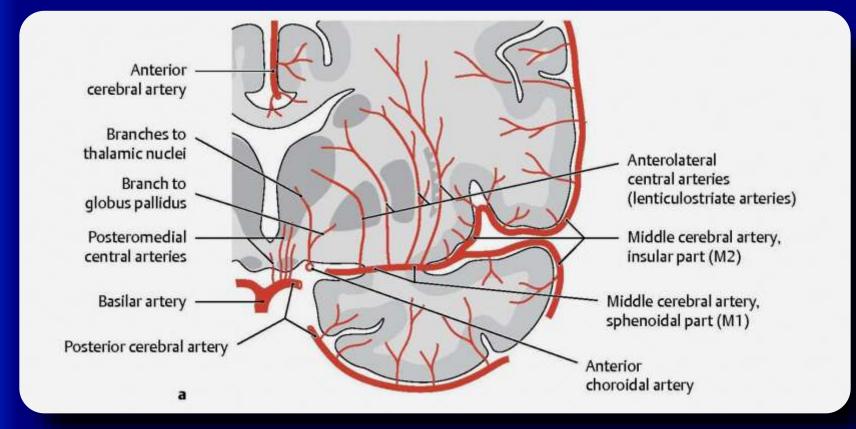


Branches of the anterior and posterior cerebral arteries on the medial surface of the cerebrum

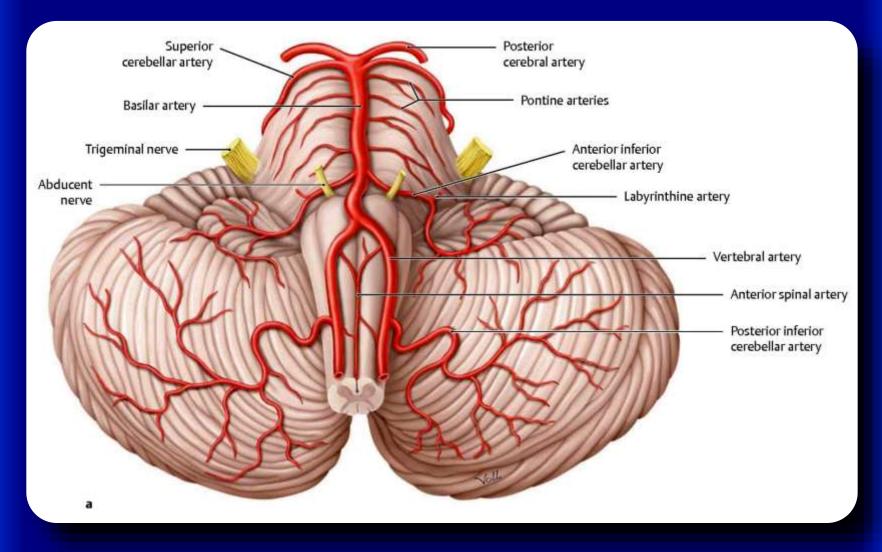




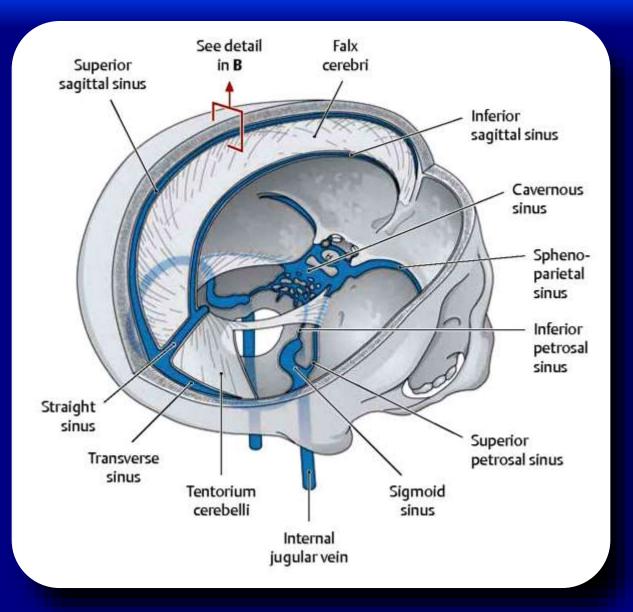
Distribution areas of the main cerebral arteries



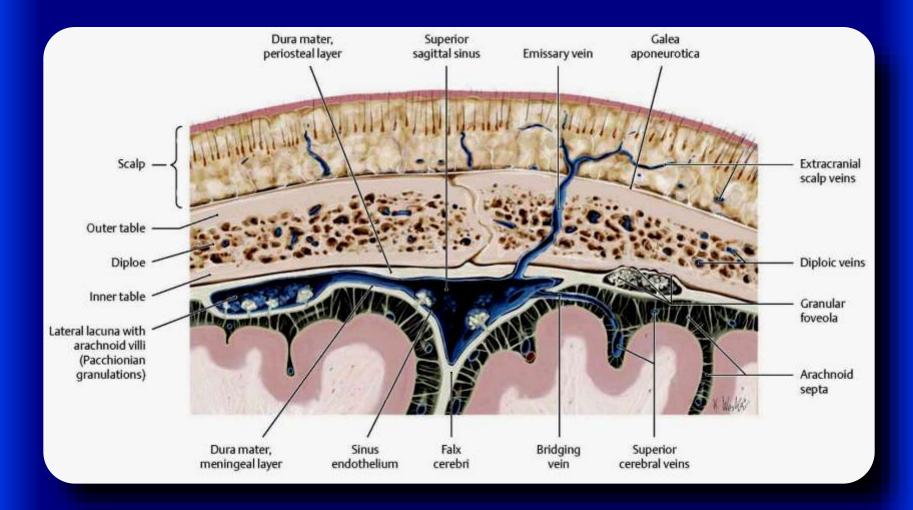
Distribution of the three main cerebral arteries in transverse and coronal sections



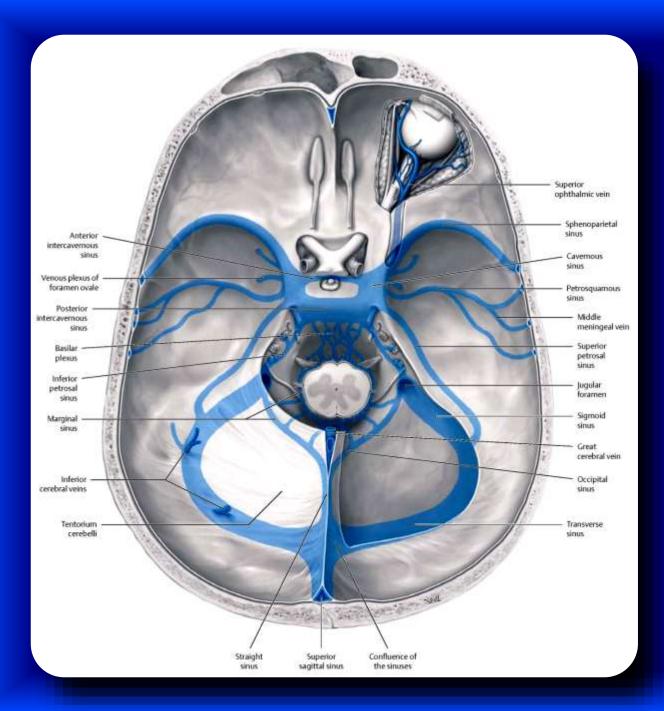
Arteries of the brainstem and cerebellum



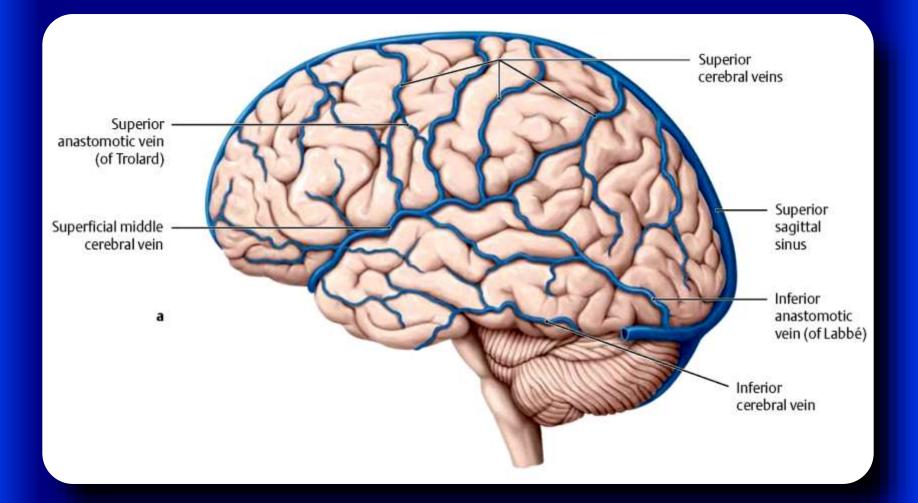
Relationship of the principal dural sinuses to the skull



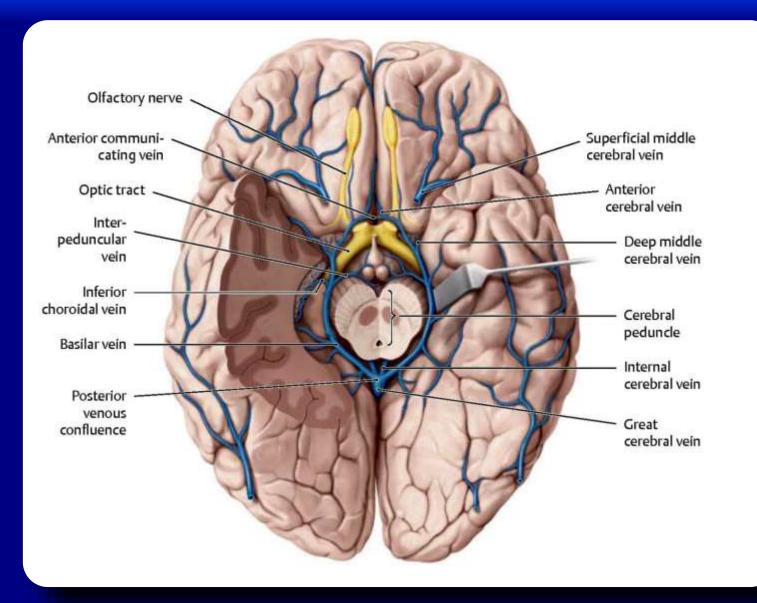
Structure of a dural sinus, shown here for the superior sagittal sinus



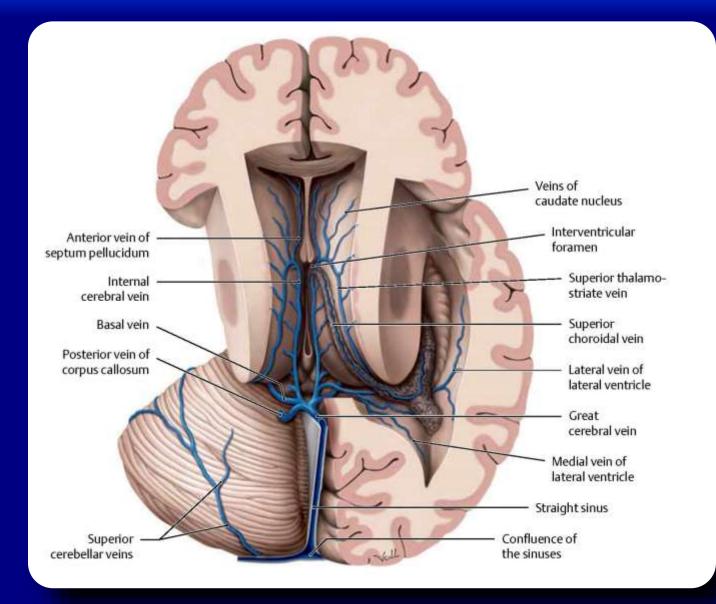
Dural sinuses at the skull base



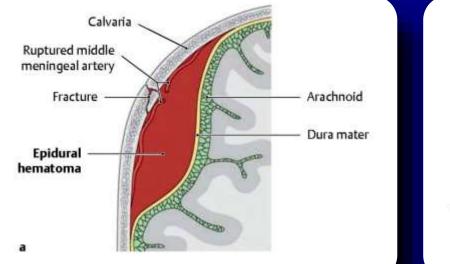
Superficial veins of the brain (superficial cerebral veins)

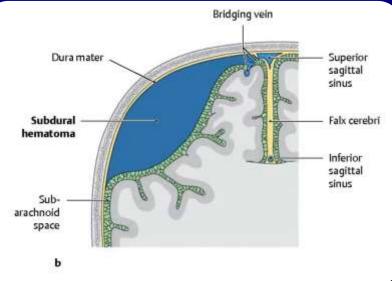


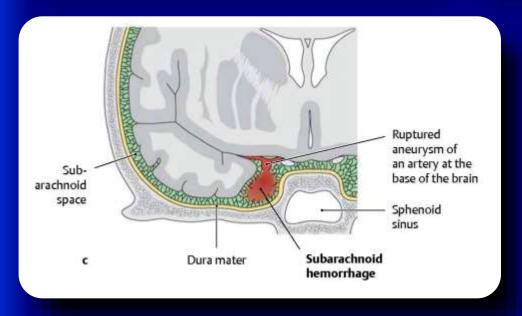
Basal cerebral venous system



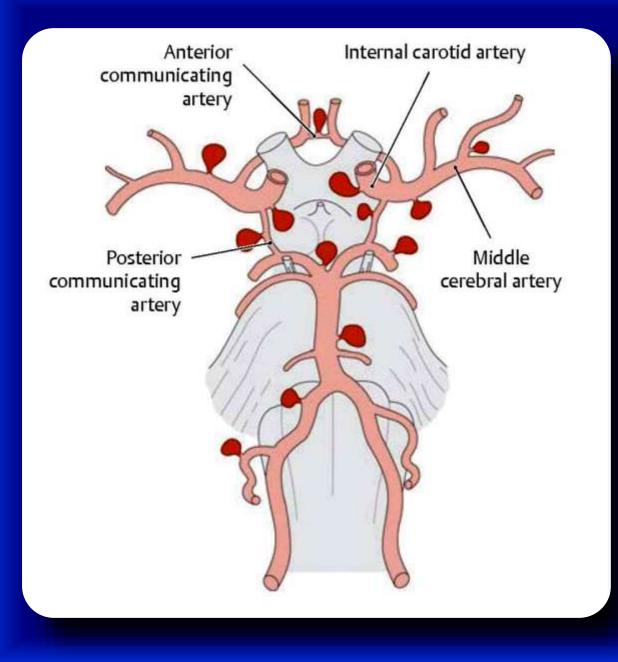
Deep cerebral veins



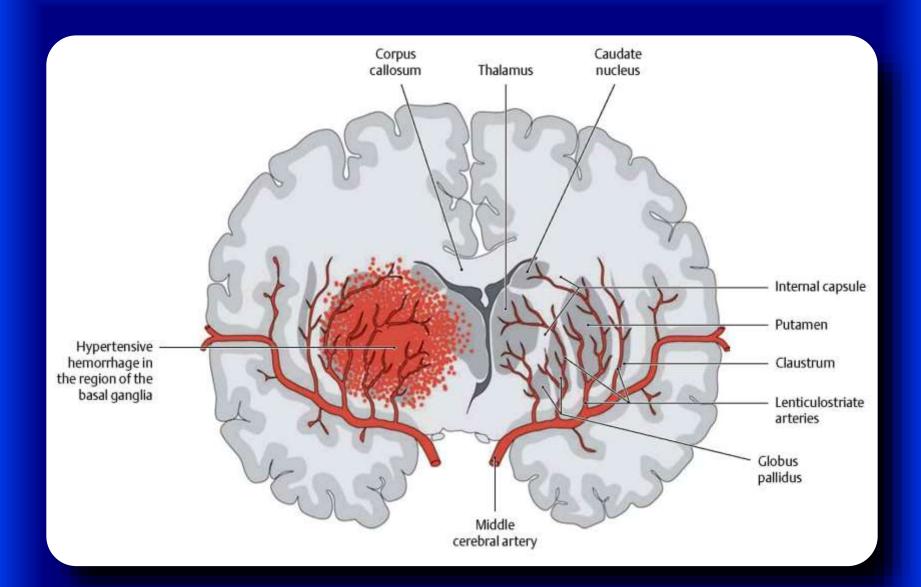




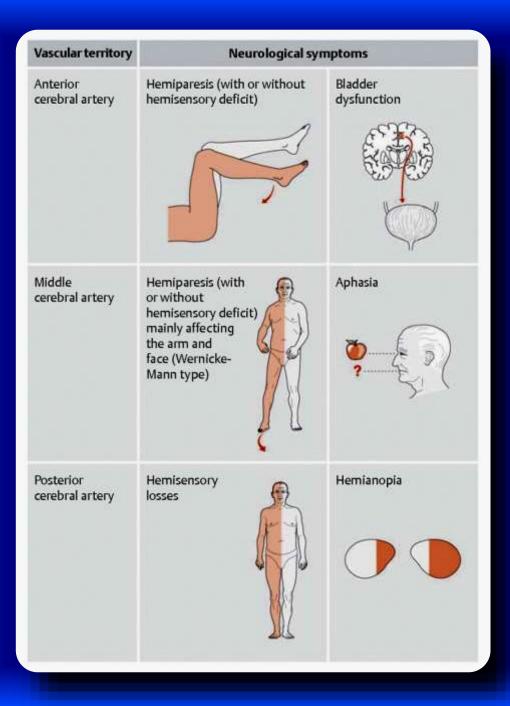
Extracerebral hemorrhages



Sites of berry aneurysms at the base of the brain



Basal cerebral venous system

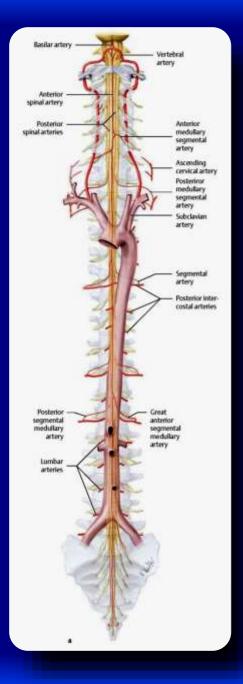


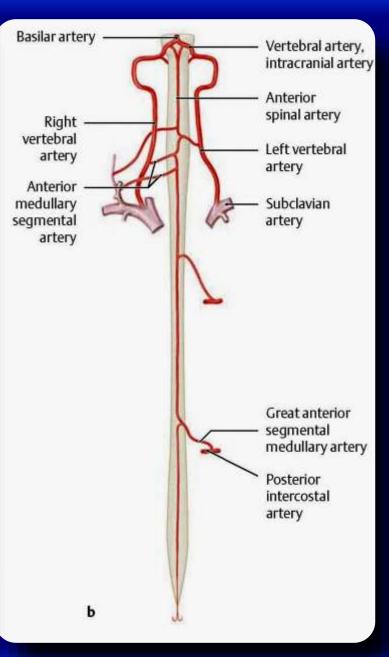
Cardinal symptoms of occlusion of the three main cerebral arteries

Segmental arteries perfusing the spinal cord arise from the following sources:

- in the cervical portion from vertebral, inferior thyroid, deep cervical, and ascending cervical arteries
- in the thoracic portion from superior (supreme) intercostal, and posterior intercostal arteries
- in the lumbar portion from the iliolumbar, and lumbar arteries
- in the sacral portion from the lateral sacral arteries

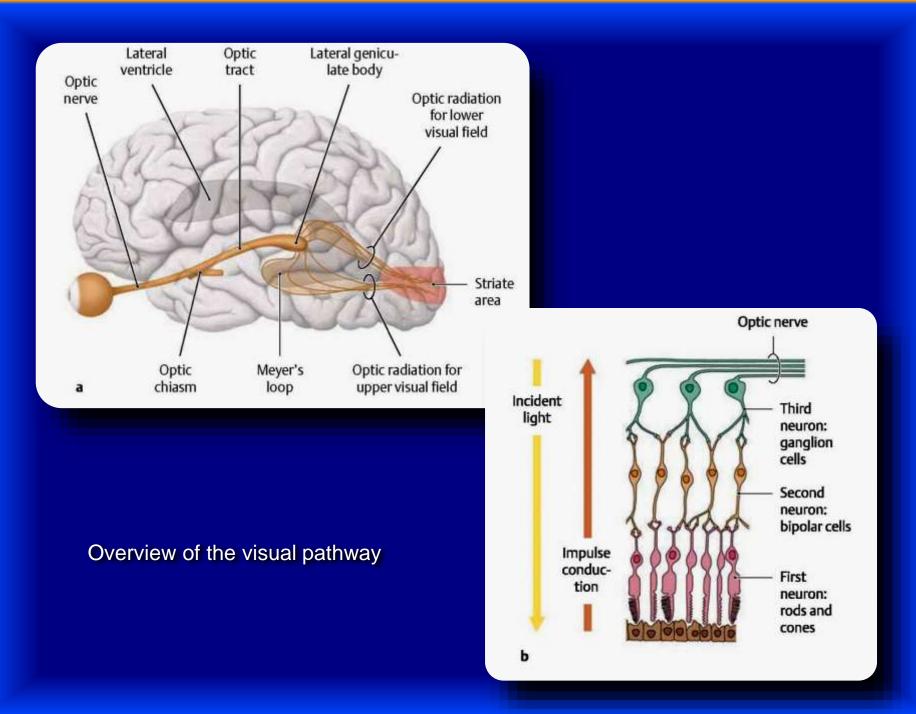
Each medullary artery gives rise to anterior and posterior medullary segmental arteries; these vessels may terminate within the roots or may proceed towards the surface of the spinal cord.





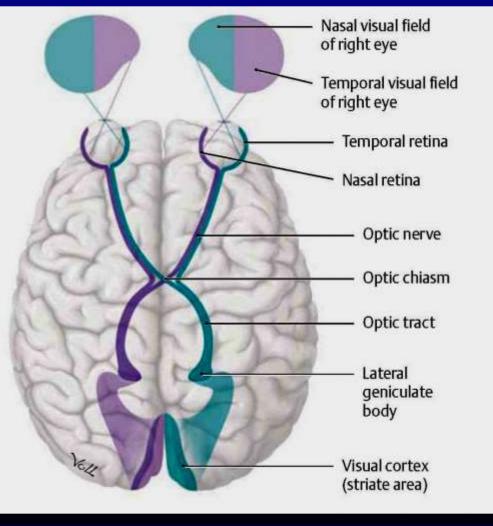
Arterial blood supply to the spinal cord

Visual pathway (overview)

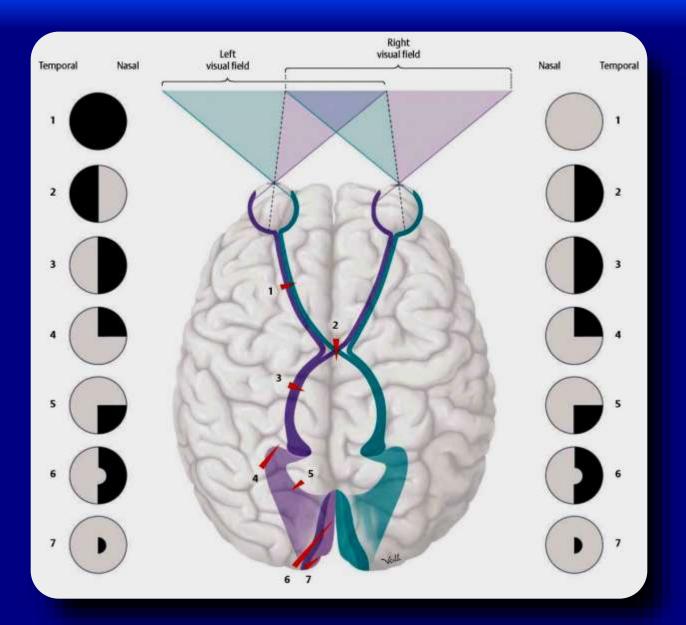


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Left half of visual field Right half of visual field

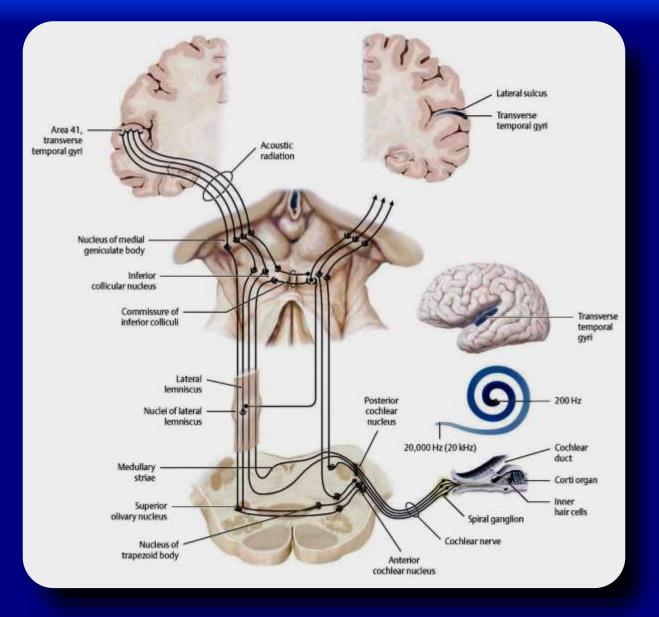


Representation of each visual field in the contralateral visual cortex



Visual field defects (scotomata) and their location along the visual pathway

Auditory pathway (overview)



Afferent auditory pathway of the left ear

