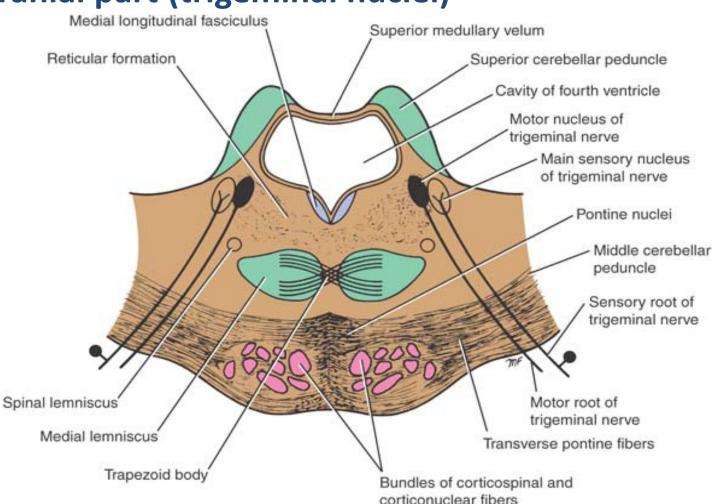
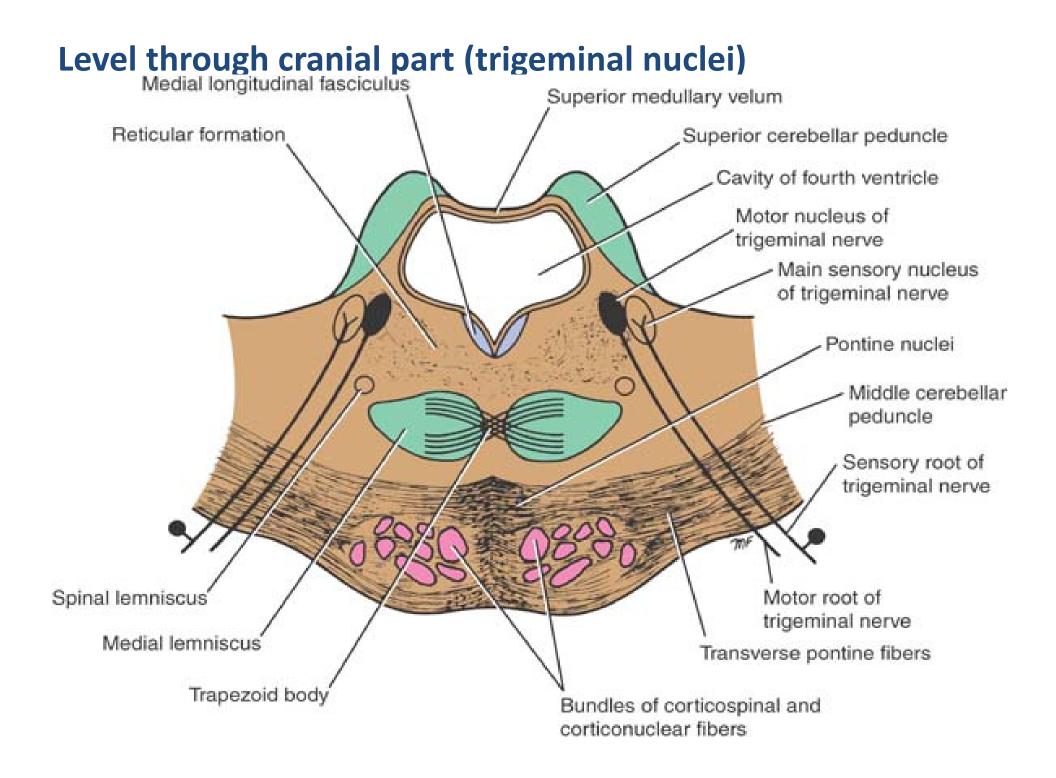
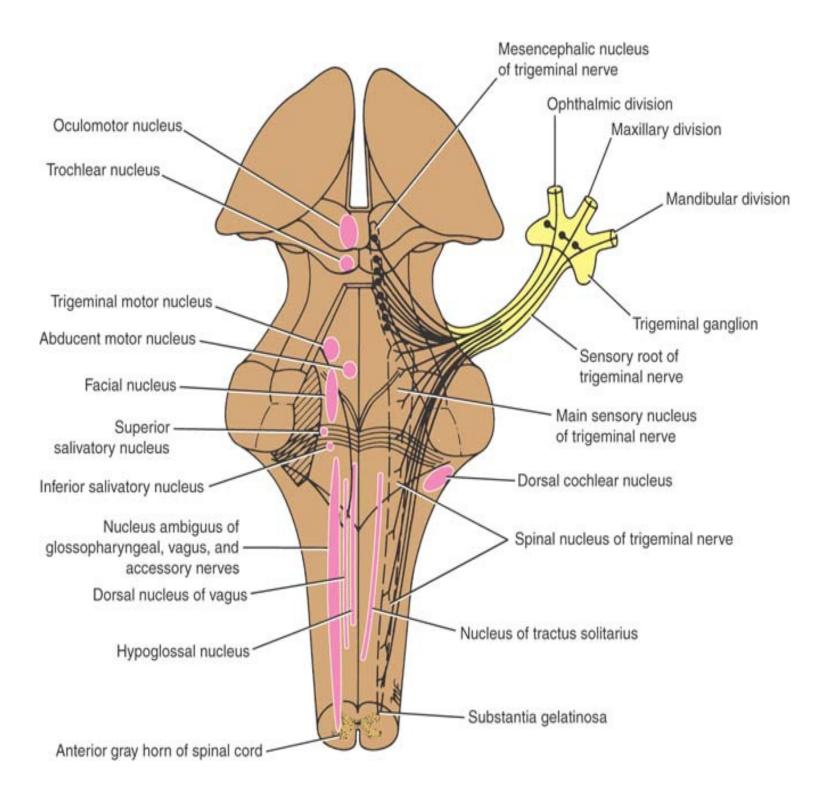
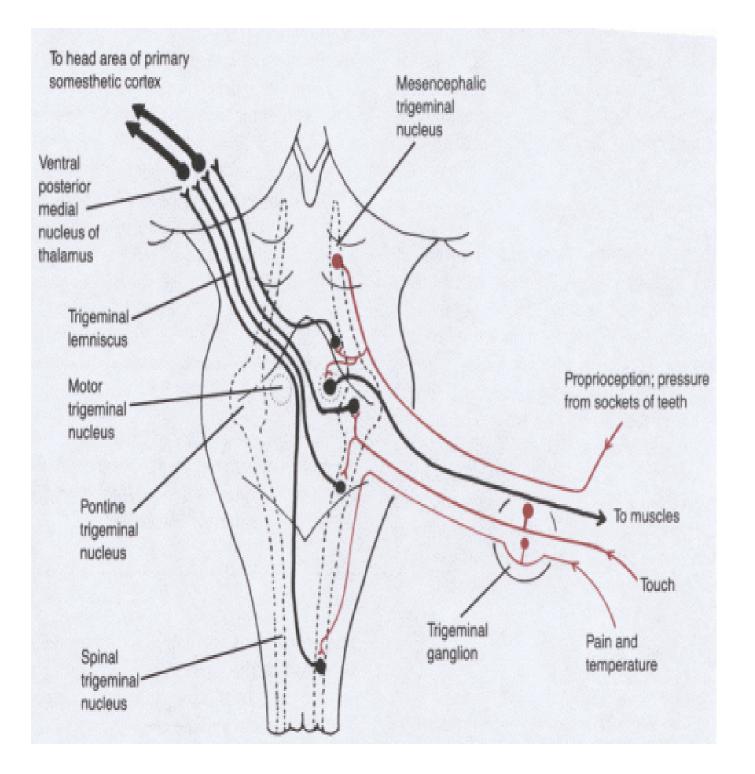
Level through cranial part (trigeminal nuclei)

- Motor nucleus of trigeminal n: beneath the lateral part of thefourth ventricle within the reticular formation
- Main Sensory nucleus of trigeminal n (*lateral*)
- SCP: posterolateral to the motor nucleus of V
- Trapezoid body
- Medial leminiscus
- Lateral leminiscus, Spinal leminiscus: lateral extremity of the medial lemniscus



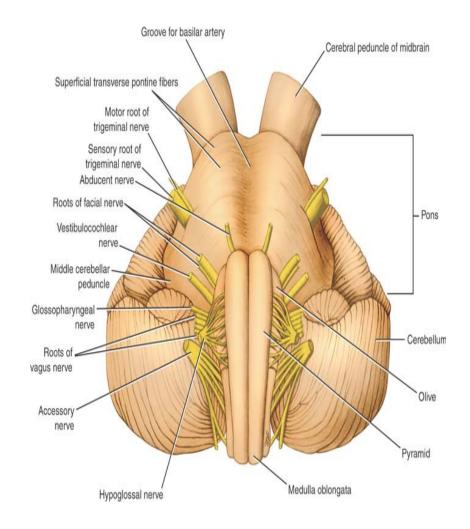




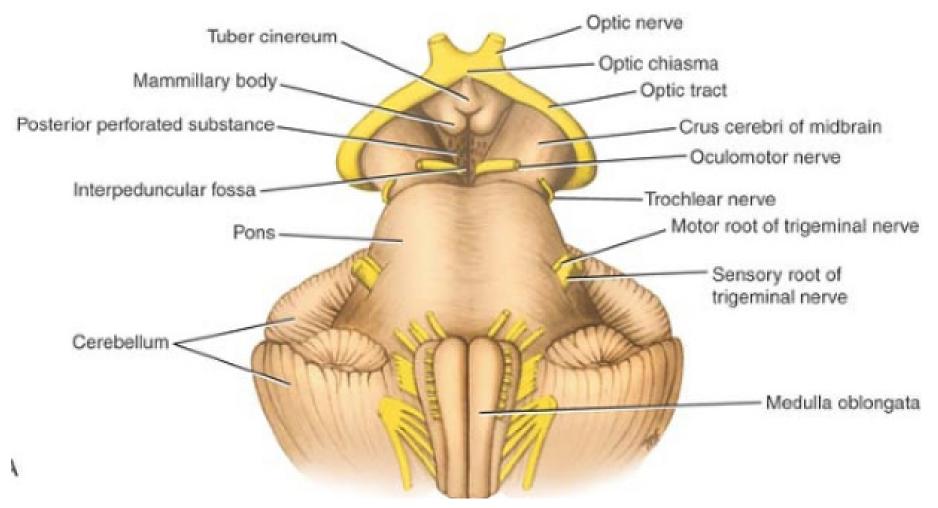


The Brain Stem – The Midbrain

- Lies between the diencephalon and the pons
- Central cavity the cerebral aqueduct
- Cerebral peduncles located on the ventral surface of the brain divided by the substantia nigra into:
- Crus cerebri: Anterior
- Tegmentum: Posterior
 - Contain pyramidal (corticospinal) tracts
- Superior cerebellar peduncles
 - Connect midbrain to the cerebellum



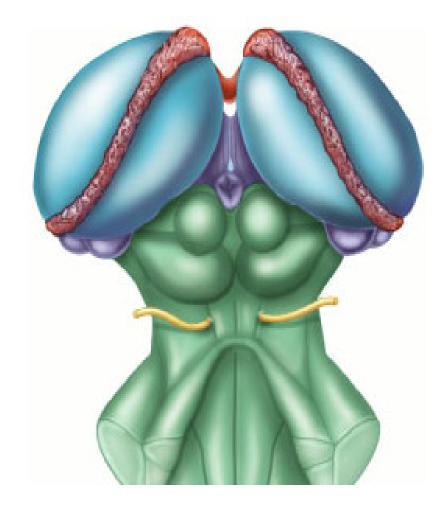
Midbrain ant. View



- •Interpeduncular fossa
- •Crus cerebri
- •3rd nerve emerges from medial side of crus cerebri in the interpeduncular fossa

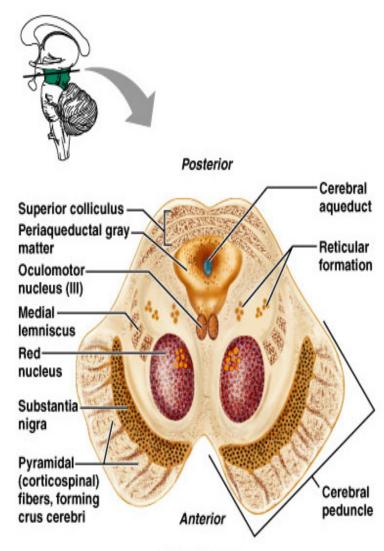
The Midbrain-posterior view

- Corpora quadrigemina the largest nuclei
 - Divided into the superior and inferior colliculi
 - Superior colliculi nuclei that act in visual reflexes
 - Inferior colliculi nuclei that act in auditory reflexes
- Trochlear nerve emerges below the level of inf. Colliculus (from posterior surface)
- Occulomotor nerve emerges at the level of sup. colliculus
- Sup.brachium (to lateral geniculate body)
- Inf. Brachium (to medial geniculate body)
- 4th emerges



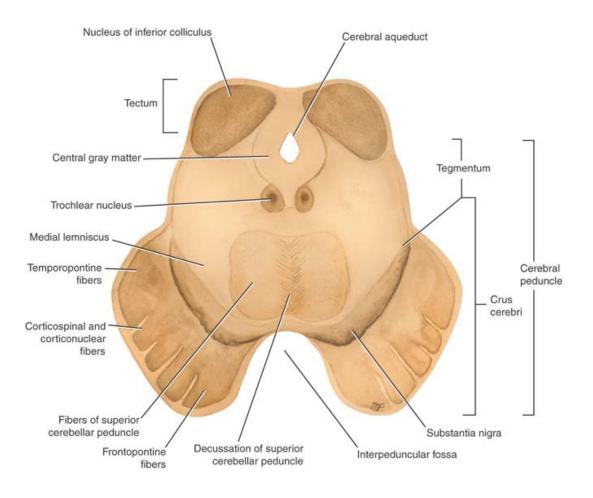
The Brain Stem – The Midbrain

- Imbedded in the white matter of the midbrain
 - Two pigmented nuclei
 - Substantia nigra neuronal cell bodies contain melanin
 - Functionally linked to the basal nuclei
 - Red nucleus lies deep to the substantia nigra
 - Largest nucleus of the reticular formation



(a) Midbrain

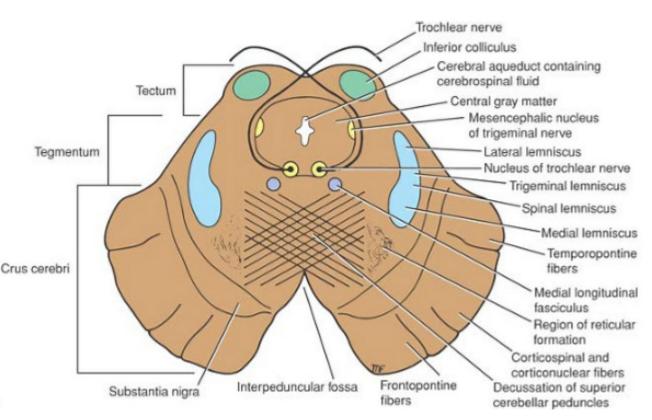
Cerebral peduncle is divided into crus cerebri (ant) & tegmentum (post) Tectum is post to cerebral aqueduct



Substantia nigra is situated between the tegmentum and crus cerebri

- Trochlear nucleus lies close to midline in the central gray matter (posterior to MLF)
- Trochlear nerves decussate in the superior medullary velum
- Decussation of sup. cerebellar peduncles (central part of the tegmentum anterior to the cerebral aqueduct)
- RF is lateral to decussation
- Medial, spinal ,trigeminal & lateral leminisci (Posterior to Substantia nigra)

Level of inf. colliculus



- Substantia nigra
- Crus cerebri
- Mesencephalic nucleus of trigeminal (lateral to cerebral aqueduct)
- MLF

