

BRAINSTEM ANATOMY & FUNCTION CHART

Clinical Reference: Midbrain, Pons, and Medulla Oblongata

1. Midbrain (Mesencephalon)

Key Structures	Primary Functions	Cranial Nerves
Corpora Quadrigemina, Cerebral Peduncles, Tectum	Visual/Auditory reflex tracking, motor coordination, consciousness gating.	CN III (Oculomotor) CN IV (Trochlear)

2. Pons (Metencephalon)

Key Structures	Primary Functions	Cranial Nerves
Pontine Tegmentum, Basilar Pons, Pneumotaxic Center	Regulation of breathing rhythm, relay between cerebrum and cerebellum, REM sleep.	CN V, VI, VII, VIII (Vestibular portion)

3. Medulla Oblongata (Myelencephalon)

Key Structures	Primary Functions	Cranial Nerves
Pyramids, Olive, Reticular Formation, Solitary Nucleus	Autonomic vitals (heart rate, blood pressure), vomiting, sneezing, swallowing.	CN IX, X, XI, XII

Clinical Observations / Diagram Labels:

Instructional Use Only • Anatomical Template • Not for Diagnostic Purposes