

The interposed nuclei are comprised of the emboliform nucleus and the globose nucleus. The globose nucleus is the posterior interposed nucleus and lies lateral to the fastigial nucleus. It helps in bringing about coordination of movements and maintains muscle tone.

Fastigial Nucleus

Fast-girl Nuclear-Nuclei

The vestibulocerebellum is comprised of the flocculonodular lobe and fastigial nucleus. It receives input from the cerebellar afferents that carry vestibular, auditory, and visual information. It projects to the vestibular nuclei and the reticular formation. It controls the coordination of balance and saccadic ocular movements.

Cerebellar Peduncles

Superior Cerebellar Peduncle

Super Silver-bell with Petal

The superior cerebellar peduncle (SCP) carries cerebellar efferent fibers within the cerebellothalamic and cerebellorubral, which relay motor planning output signals from the cerebellum.

Middle Cerebellar Peduncle

Middle a Thicker Petal

The middle cerebellar peduncle (MCP) connects the cerebellum to the pons. It is the largest peduncle. It carries afferent tracts from the contralateral cortex via pontocerebellar mossy fibers.

Inferior Cerebellar Peduncle

In-fur Silver-bell Petal

The inferior cerebellar peduncles (ICP) connect the medulla with the cerebellum. They carry mossy afferent fibers from the spinal cord and climbing fiber afferents from the inferior olivary nucleus. They contribute Purkinje fiber efferents to the vestibular nuclei.

Blood Supply

Superior Cerebellar Artery

Super Silver-bell Archer

The superior cerebellar artery supplies the superior surface of the cerebellum, superior and middle cerebellar peduncles, and lower midbrain.

Anterior Inferior Cerebellar Artery

Anteater In-fur Silver-bell Archer

The anterior inferior cerebellar artery (AICA) arises from the basilar artery and supplies the anterior cerebellum, middle cerebellar peduncles, and inferolateral pons.

Posterior Inferior Cerebellar Artery

Post-terrier In-fur Silver-bell Archer

The posterior inferior cerebellar artery (PICA) arises from vertebral artery and supplies the lateral part of the medulla and the inferior part of the cerebellum.