

SPINAL CORD ANATOMY: TRANSVERSE SECTION

Region	Primary Function
Posterior (Dorsal) Horn	Sensory Processing
Anterior (Ventral) Horn	Motor Neurons
Lateral Horn	Autonomic Control (T1-L2)
Gray Commissure	Cross-hemisphere connection
Central Canal	CSF Circulation

Funiculus	Principal Tracts
Posterior Column	Gracile & Cuneate Fasciculi
Lateral Column	Corticospinal & Spinothalamic
Anterior Column	Vestibulospinal & Tectospinal
Anterior Commissure	Decussating fibers

Structure	Description
Dorsal Root Ganglion	Contains cell bodies of sensory neurons.
Ventral Root	Axons of motor neurons exiting the cord.
Meninges	Dura Mater, Arachnoid Mater, Pia Mater layers.
Epidural Space	Adipose tissue and internal vertebral venous plexus.

Reference Chart: Standard Human Neuroanatomy (Cervical Level Representative)