

SPINAL CORD ANATOMY: TRANSVERSE SECTION

Posterior Median Sulcus

Posterior Horn (Gray Matter)

Central Canal

White Matter Columns

Anterior Horn (Gray Matter)

Anterior Median Fissure

Ventral Root

Dorsal Root Ganglion

FUNCTIONAL OVERVIEW

The spinal cord serves as the primary transmission pathway between the brain and the peripheral nervous system. The interior "butterfly" shape consists of neuronal cell bodies (Gray Matter), while the outer layer contains myelinated axons (White Matter).

CLINICAL SIGNIFICANCE

Transverse sections vary by vertebral level (Cervical, Thoracic, Lumbar, Sacral). Understanding these structures is critical for diagnosing myelopathy, radiculopathy, and localized spinal cord injuries.

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