Chapter 13

Spinal cord anatomy

The nervous system is delicate thus highly protected with different physical structure and spaces including the vertebral column. Which is a bony structure that encases the spinal cord down the back The spinal cord runs from the inferior portion of the Medula oblangata to the second lumbar vertebra

Enlargements of the spinal cord

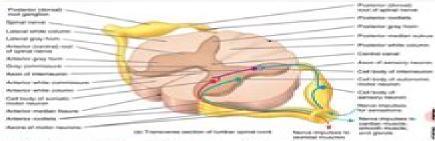
Cervical enlargement	Lumbar enlargement
C4 → T9	T9 →T12
Serves nerves to	Serves nerves to
and from upper	and from lower
limbs	limbs

The spinal cord terminals at the conus medullaris between L! →L2. From here is the formation of the filum terminals, an extension of the pia mater Spinal nerves are paths of communication between spiral cord and specific region of the body. The naming of spinal nerves is based on where they are located.

There's is 8 pairs of cervical nerves (CI-C8), 12 pairs of thoracic nerves (TI-TI2), 5 pairs of lumbar nerves (LI-L5), 5 pairs of sacral nerves (SI-S5), & I pair of coccygeal nerves (CoI).

Internal anatomy of the spinal cord

Roots connect to the segment of the cord by rootlets. The posterior roots and rootlets contain ONLY sensory axons. Each posterior root has a root ganglion which contains cell bodies of sensory axons. The anterior root and rootlets contain axons of motor neurons conducting nerve impulse from CNS to effectors.



Gray matter: Gray matter forms the butterfly shaped section that includes the posterior gray horns, medial gray horns, lateral gray horns, and anterior gray horns.

White matter: White matter forms the posterior column, lateral column, medial column, and anterior column.

Posterior medium sulcus: forms a line at the center of the posterior column and medial white column.

second vertebrae, C3

would exit above the 3rd

Anterior median fissure: a wide groove on the anterior column.

White matter (columns) of the spinal cord are organized into different regions with distinct axons having common origin or destination, carrying similar function and information, these regions are called tracts.

Spinal nerves

There are 31 pairs of spinal nerves named and numbered according to the level of the vertebral column they emerge from C2 would exit above the

Spinal nerves CI-C7 exit above their corresponding vertebrae

Spinal nerve C8 exits between C8 and T1

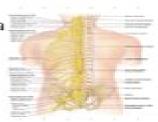
Spinal nervesTI-L5 exit below corresponding vertebra

Spinal nerves SI-S4 exit sacral canal via 4 pairs of anterior and posterior sacral foramina

Spinal nerves S5-Col exits via sacral hiatus



vertebra etc.



Anatomy And Physiology Chapter 13

Ruth E. McCall

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