

# Chapter 13

## The spinal cord & spinal nerves

### 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 Medulla oblongata to the second lumbar vertebra.

### Enlargements of the spinal cord

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

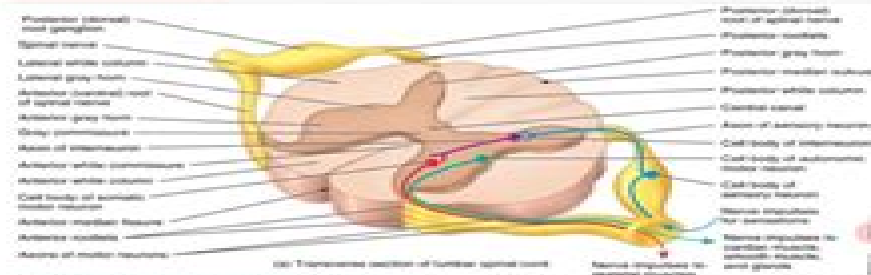
The spinal cord terminates at the **conus medullaris** between L1 → L2. From here is the formation of the **filum terminale**, an extension of the pia mater.

Spinal nerves are paths of communication between spinal cord and specific region of the body. The naming of spinal nerves is based on where they are located.

There's 8 pairs of cervical nerves (C1-C8), 12 pairs of thoracic nerves (T1-T12), 5 pairs of lumbar nerves (L1-L5), 5 pairs of sacral nerves (S1-S5), & 1 pair of coccygeal nerves (Co1).

### 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 median sulcus**: forms a line at the center of the posterior column and medial white column.

**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.

Spinal nerves C1-C7 exit above their corresponding vertebrae.

Spinal nerve C8 exits between C8 and T1.

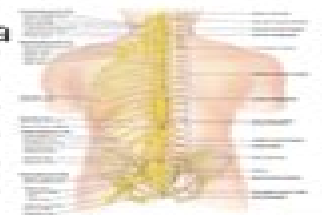
Spinal nerves T1-L5 exit below corresponding vertebra.

Spinal nerves S1-S4 exit sacral canal via 4 pairs of anterior and posterior sacral foramina.

Spinal nerves S5-Co1 exits via sacral hiatus.

Opposite of this

C2 would exit above the second vertebrae, C3 would exit above the 3rd vertebra etc.



# Anatomy And Physiology Chapter 13

**Colin Pinnock, Ted Lin, Tim  
Smith, Robert Jones**



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