

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

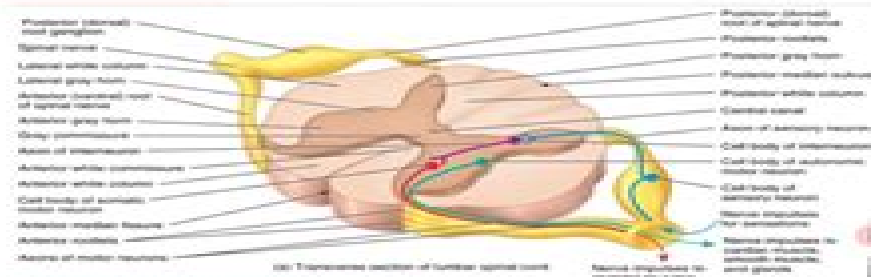
The spinal cord terminates at the **conus medullaris** between L1 → L2. From here is the formation of the **filum terminale**, an extension of the pia mater.

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.

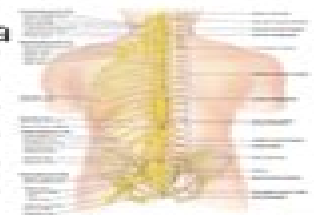
Spinal nerves T1-L5 exit below corresponding vertebra.

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.



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**Katherine Rogers, William Scott, Stuart
Warner, Bob Willis**



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Table of Contents Anatomy And Physiology Chapter 13

1. Understanding the eBook Anatomy And Physiology Chapter 13
 - The Rise of Digital Reading Anatomy And Physiology Chapter 13
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter 13
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Chapter 13
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Chapter 13
 - Personalized Recommendations
 - Anatomy And Physiology Chapter 13 User Reviews and Ratings
 - Anatomy And Physiology Chapter 13 and Bestseller Lists
5. Accessing Anatomy And Physiology Chapter 13 Free and Paid eBooks
 - Anatomy And Physiology Chapter 13 Public Domain eBooks
 - Anatomy And Physiology Chapter 13 eBook Subscription Services
 - Anatomy And Physiology Chapter 13 Budget-Friendly Options

6. Navigating Anatomy And Physiology Chapter 13 eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Chapter 13 Compatibility with Devices
 - Anatomy And Physiology Chapter 13 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Chapter 13
 - Highlighting and Note-Taking Anatomy And Physiology Chapter 13
 - Interactive Elements Anatomy And Physiology Chapter 13
8. Staying Engaged with Anatomy And Physiology Chapter 13
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Chapter 13
9. Balancing eBooks and Physical Books Anatomy And Physiology Chapter 13
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Chapter 13
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy And Physiology Chapter 13
 - Setting Reading Goals Anatomy And Physiology Chapter 13
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy And Physiology Chapter 13
 - Fact-Checking eBook Content of Anatomy And Physiology Chapter 13
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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