PHARM.D • YEAR 1

Human Anatomy & Physiology

CHAPTER 10

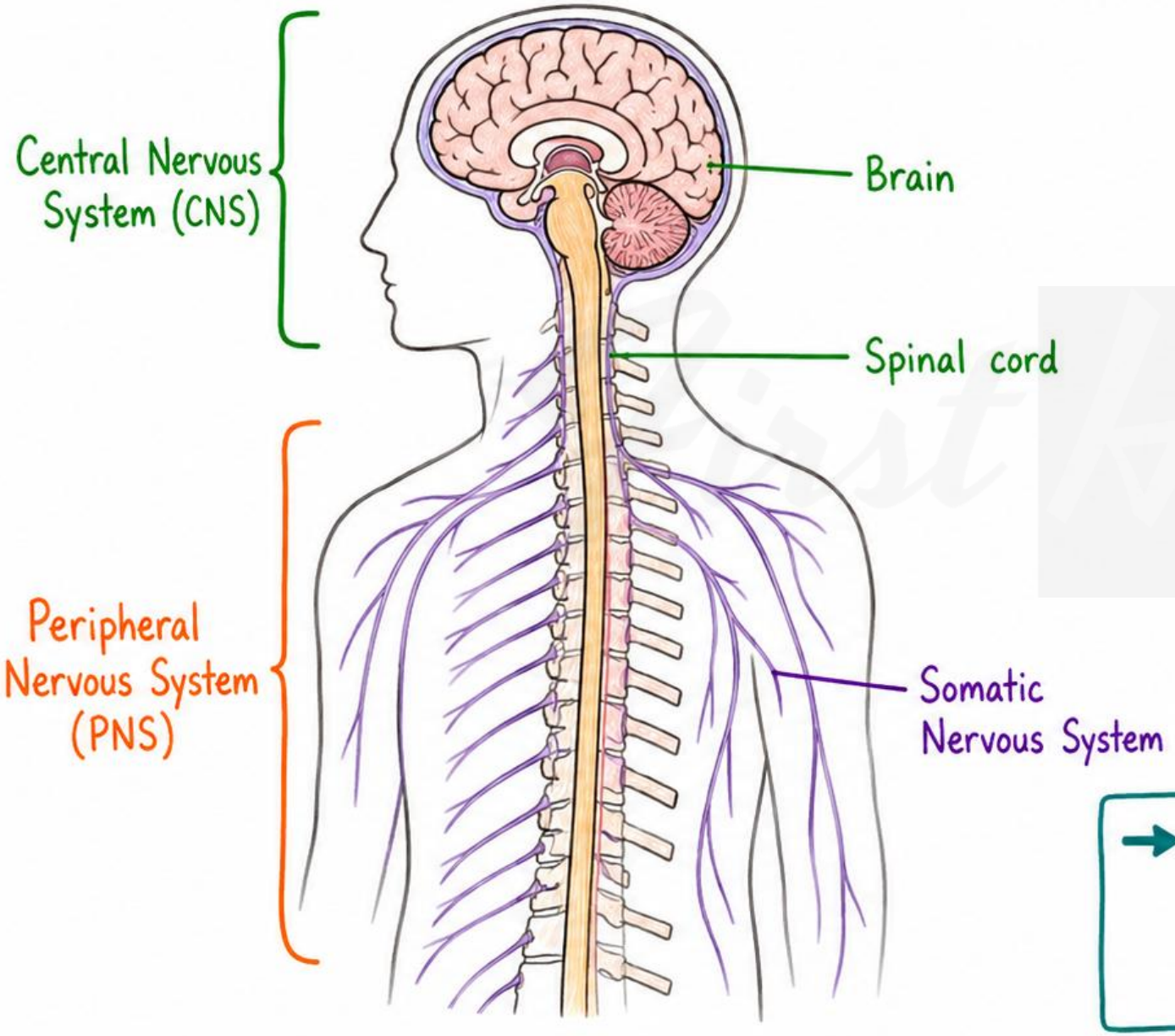
Nervous System

PPT CHAPTER COVER



DOCTOR OF PHARMACY

ORGANIZATION OF THE NERVOUS SYSTEM



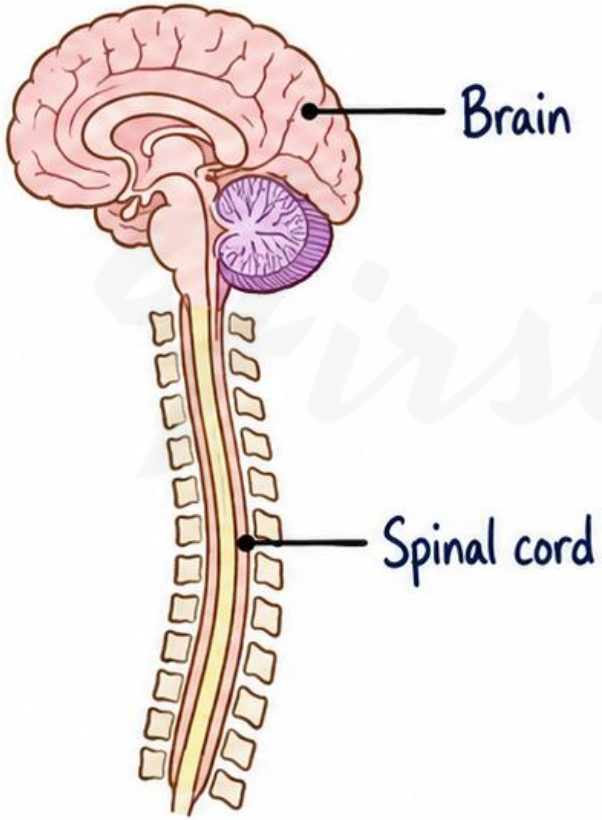
- The nervous system is a complex network of nerves, neurons, and supporting cells that coordinate and transmit information throughout the body.
- Central Nervous System (CNS): The brain is the control center responsible for processing and integrating sensory information, generating thoughts and emotions, and coordinating voluntary and involuntary movements.
- Peripheral Nervous System (PNS): Somatic Nervous System.

→ The organization of the nervous system allows it to efficiently process information and coordinate the body's responses to various internal and external stimuli.

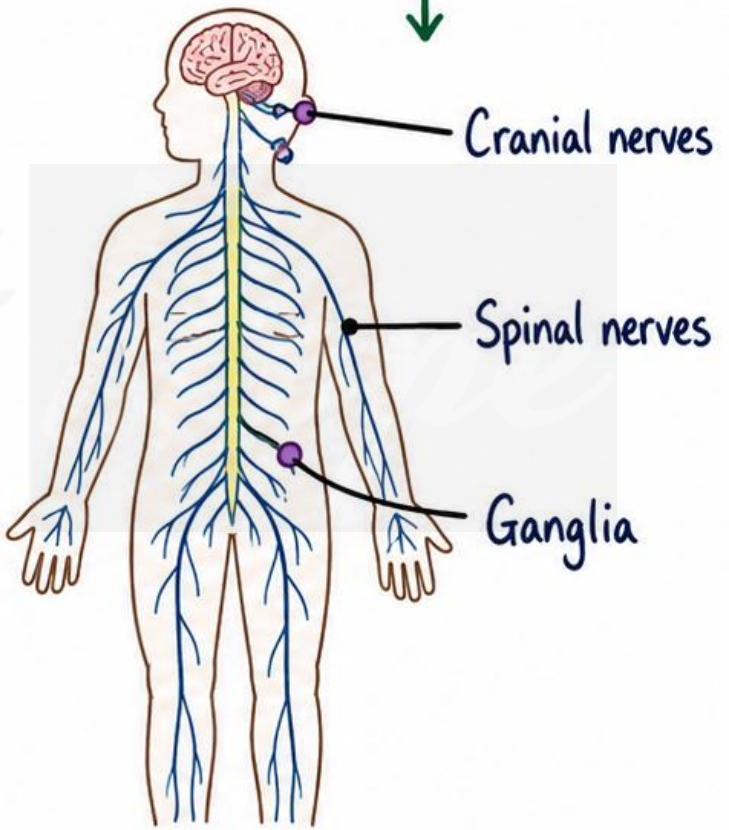
Central and Peripheral Nervous Systems

1) Central Nervous System (CNS)

- Consists of the brain and spinal cord.
- Integrates and processes information.



2) Peripheral Nervous System (PNS)



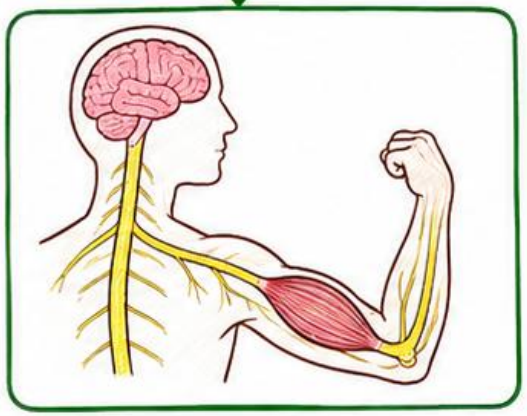
- Consists of cranial nerves, spinal nerves and ganglia outside the CNS.
- Carries sensory input inward and motor output outward.

CNS integrates information; PNS connects the body to the CNS.

SOMATIC AND AUTONOMIC DIVISIONS

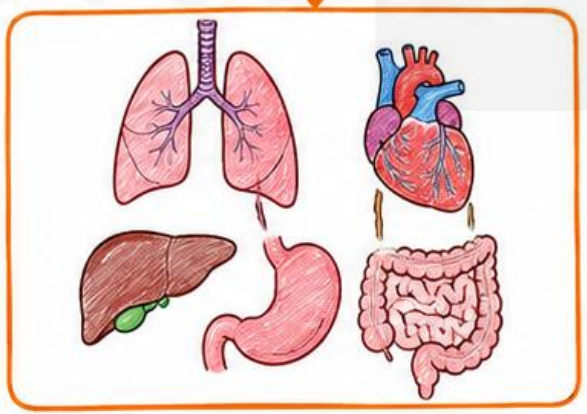
Nervous System
has two main divisions

Somatic Division



Each division has its own subdivisions and components.

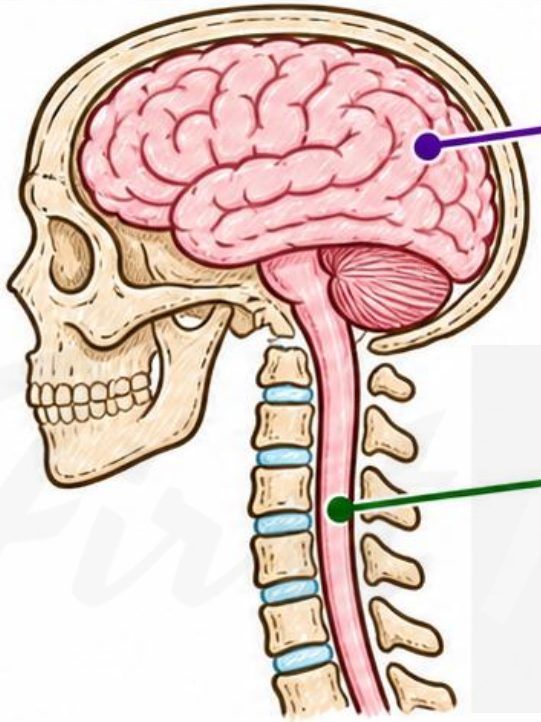
Autonomic Division (ANS)



Regulates involuntary processes and the function of internal organs.

- Each of these divisions has its own subdivisions and components, which work together to coordinate and control various functions in the body.
- Autonomic Nervous System (ANS): This subdivision of the PNS regulates involuntary processes and the function of internal organs.

CENTRAL NERVOUS SYSTEM: OVERVIEW



Brain
Protected by
the skull

Spinal cord
Protected by
the vertebral column

- The central nervous system consists only of the brain and spinal cord.
- It receives and integrates information, coordinates responses and supports cognition.
- The skull protects the brain and the vertebral column protects the spinal cord.

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