

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai

Approved by Pharmacy Council of India, New Delhi.

Coimbatore -641035

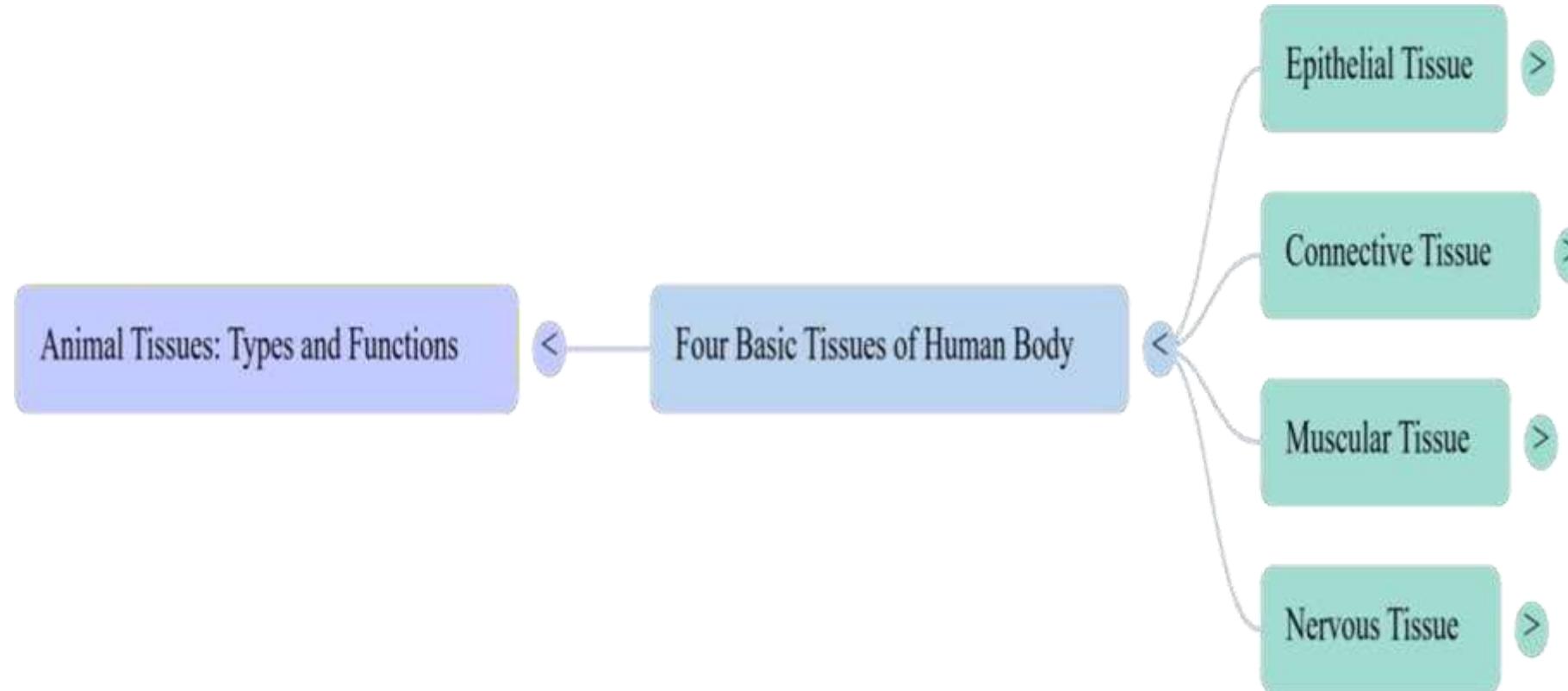


COURSE NAME : HUMAN ANATOMY AND PHYSIOLOGY (ER20-14T)

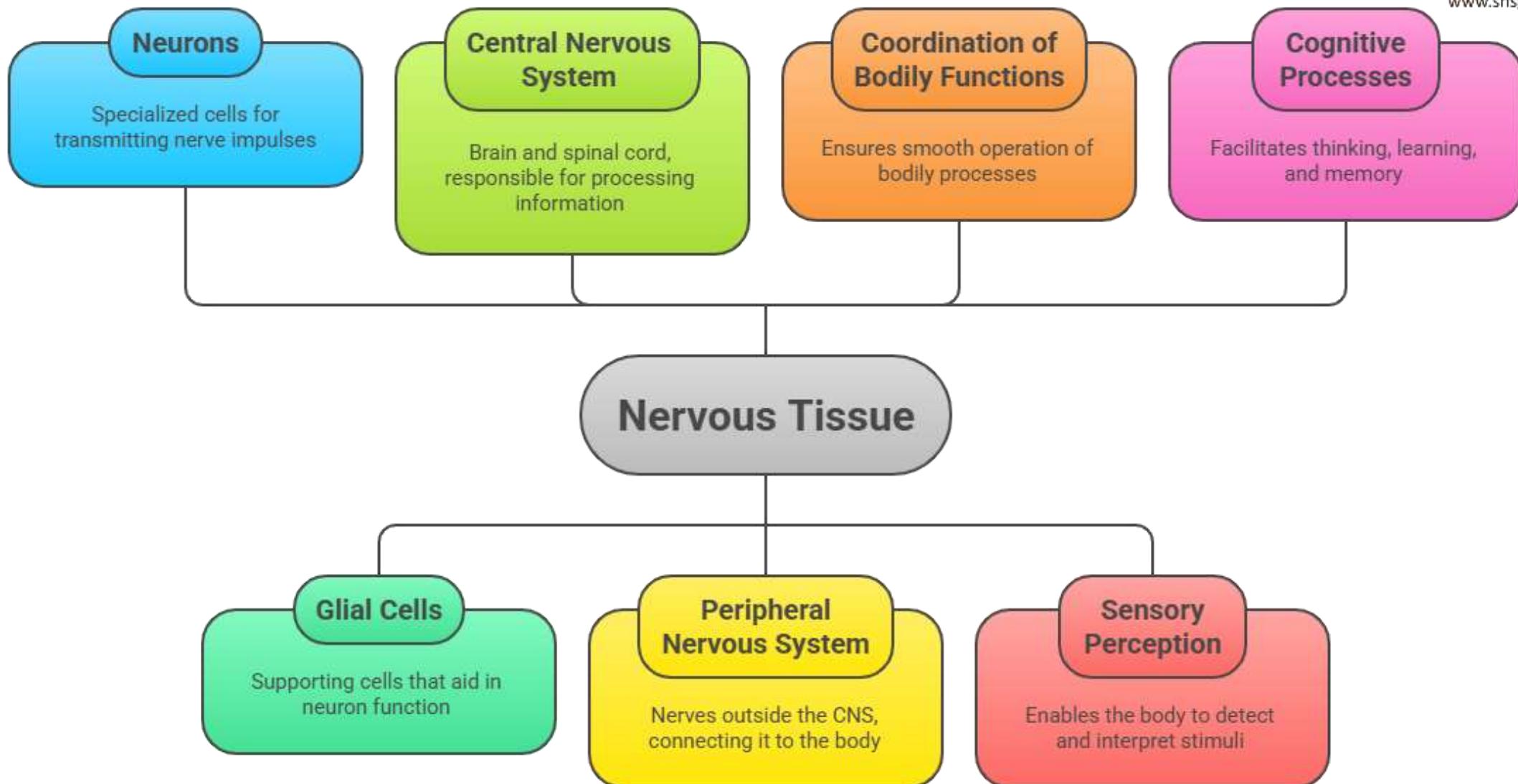
I D. PHARM

TOPIC 1 : NERVOUS TISSUE

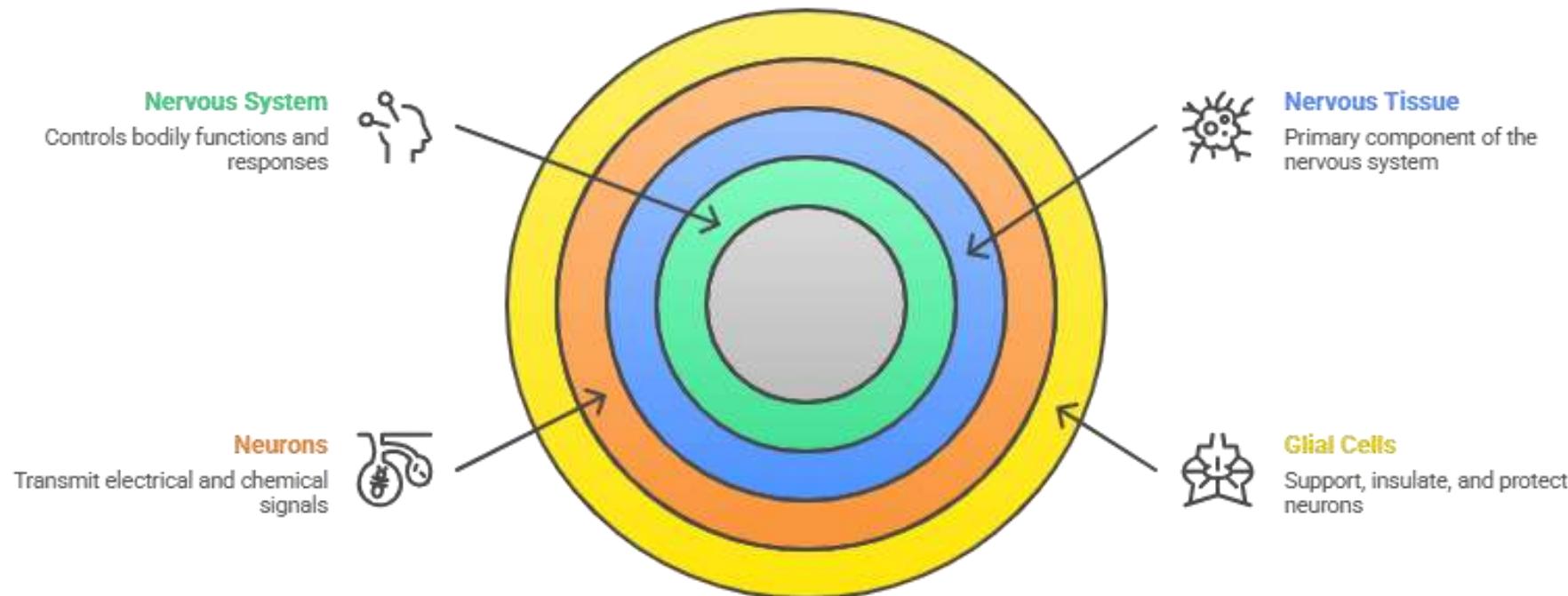
MINDMAP



Components and Functions of Nervous Tissue

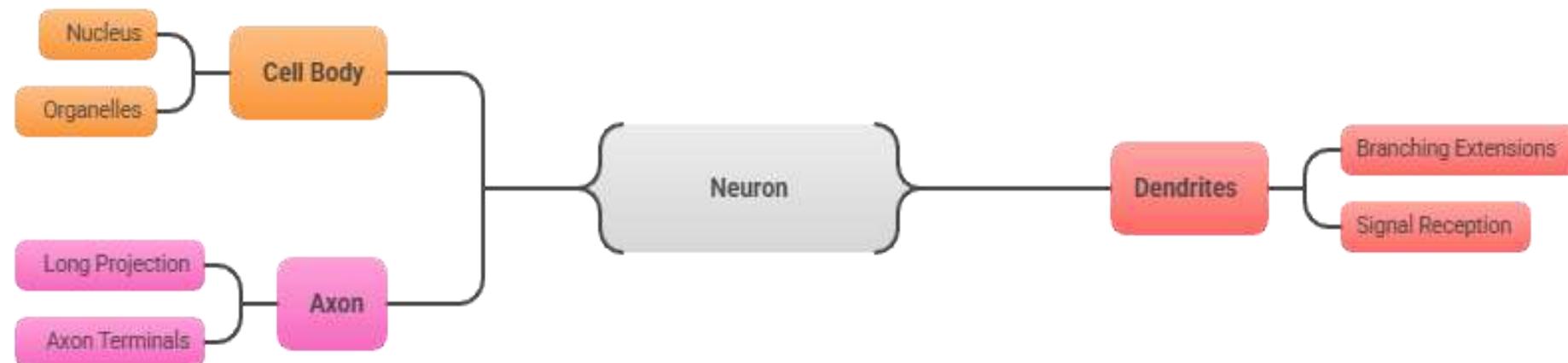


Nervous Tissue Composition and Function



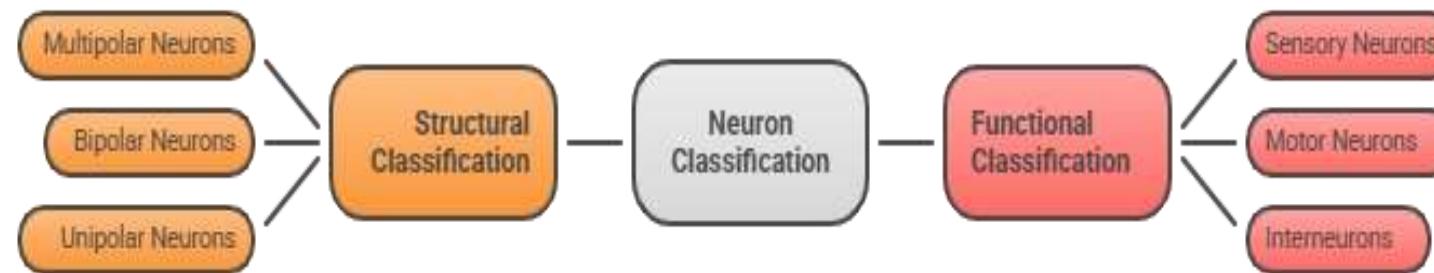
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Neuron Structure and Function



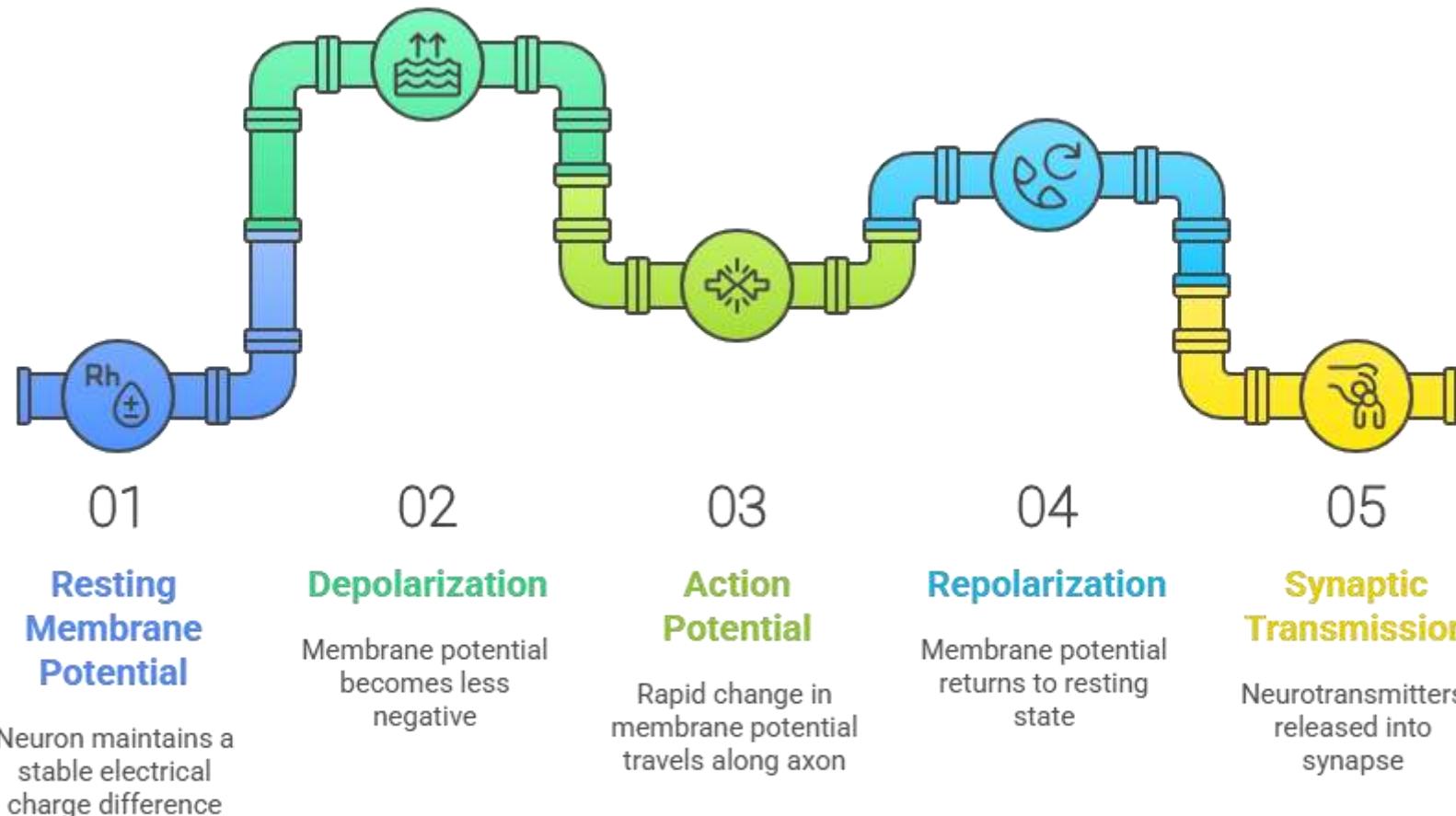
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Neuron Classification: Structure and Function



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Nerve Impulse Transmission Sequence



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Key Steps in Nerve Impulse Transmission

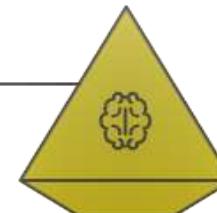


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Nervous Tissue Functions Hierarchy

Higher-Level Functions

- Responsible for learning, memory, and consciousness



Homeostasis

- Regulates stable internal body environment



Motor Output

- Transmits signals to muscles and glands



Information Processing

- Processes sensory information and generates responses



Sensory Input

- Receives information from sensory receptors



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Neurological Disorders

Parkinson's Disease

Movement disorders
due to
neurodegeneration



Multiple Sclerosis

Autoimmune
damage to myelin
sheath



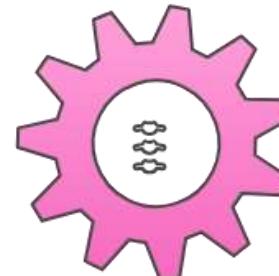
Alzheimer's Disease

Progressive memory
loss and cognitive
decline



Spinal Cord Injury

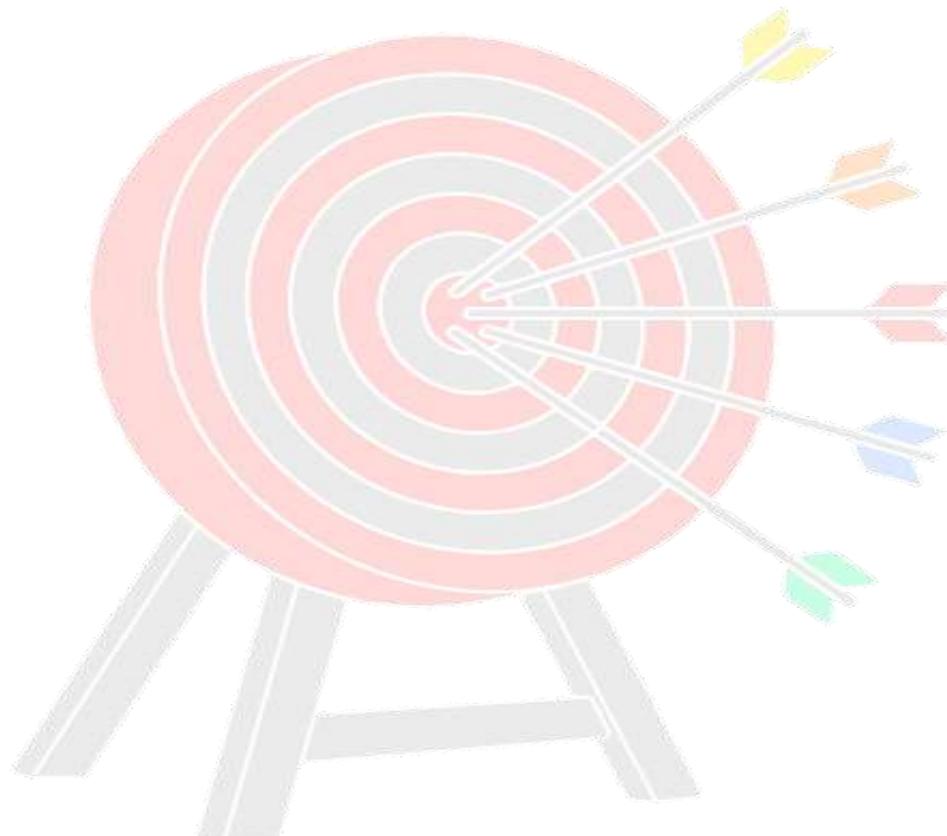
Paralysis and loss of
sensation



Stroke

Brain damage due to
blood vessel
blockage or rupture

SUMMARY



Joint Disorders

Core conditions affecting joint function



Types of Disorders

Specific conditions like OA, RA, Gout



Causes

Factors leading to joint problems



Symptoms

Manifestations of joint issues



Diagnosis & Treatment

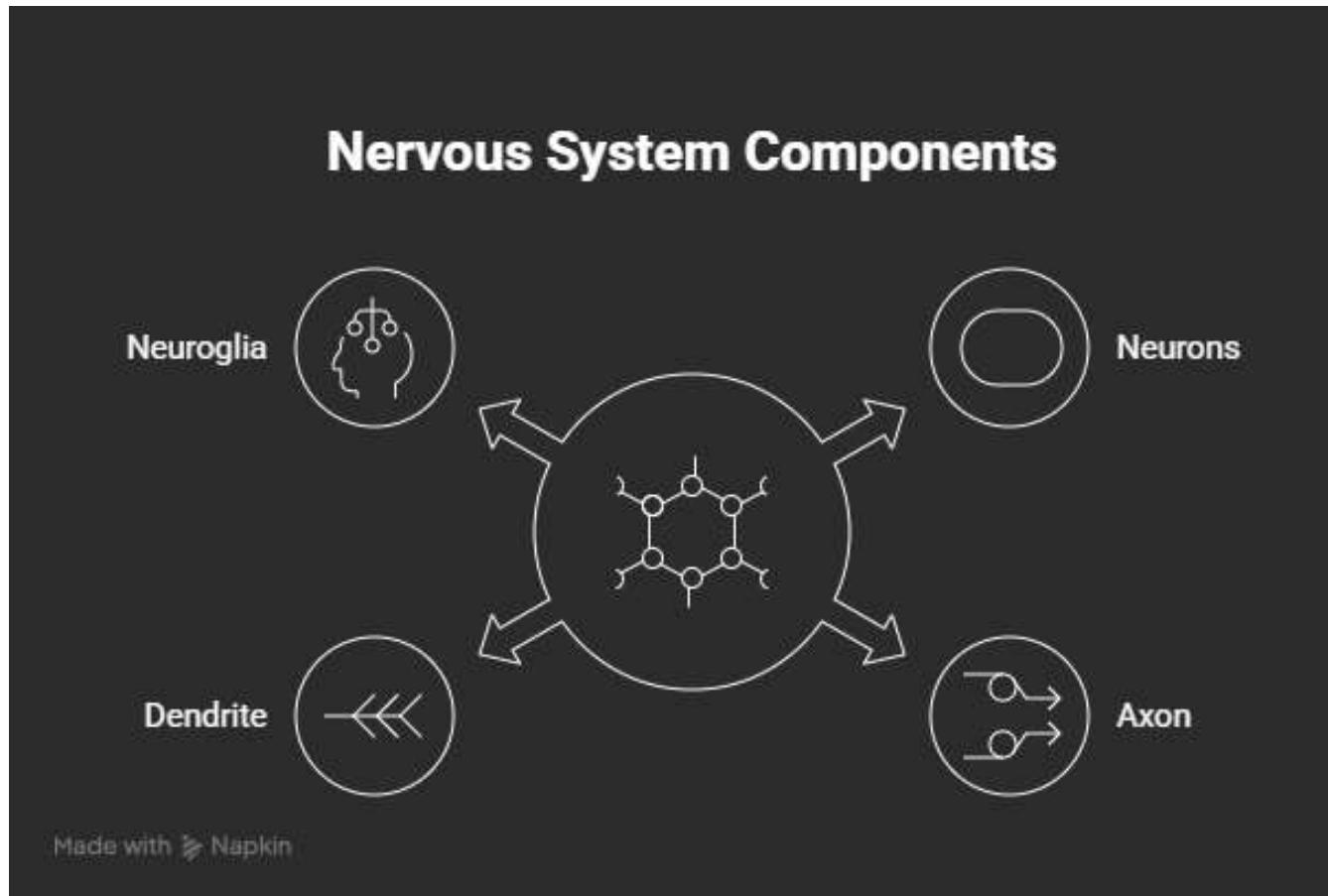
Methods for identifying and managing disorders

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ASSESSMENTS



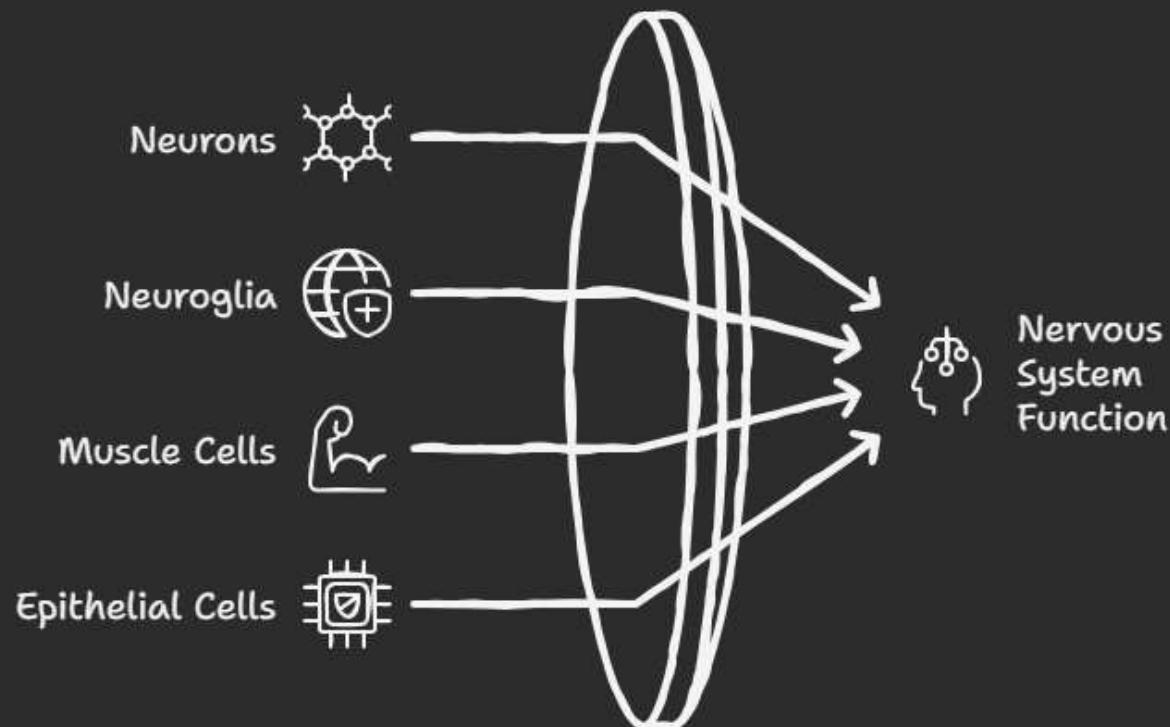
1. The functional unit of the nervous system is the:



2. The myelin sheath is formed by:



Cellular Harmony in the Nervous System

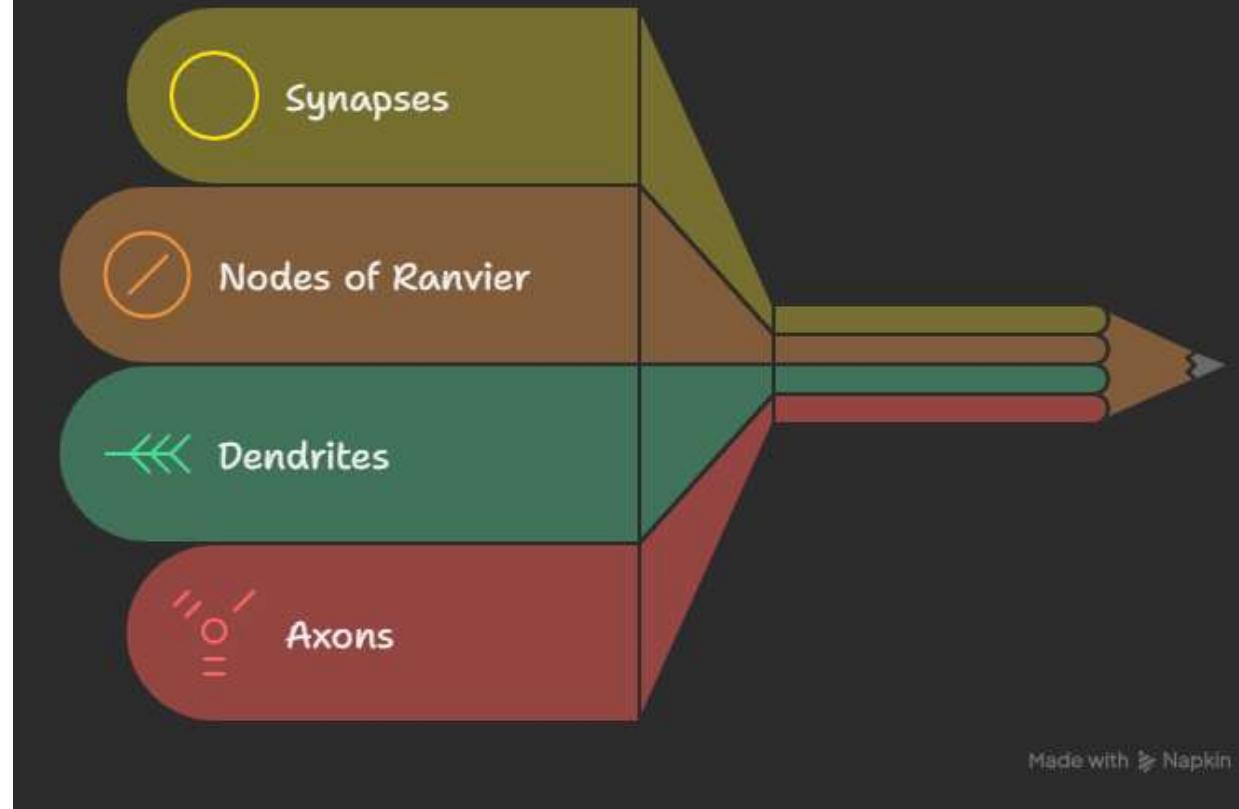


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3. The Neural signal pathway is

Pathways of Neural Signals



REFERENCES

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- 2.Smolen JS, Aletaha D, McInnes IB. Rheumatoid arthritis. *Lancet*. 2016;388(10055):2023-38.
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- 5.Briggs AM, Cross MJ, Hoy DG, et al. Musculoskeletal health conditions represent a global threat to healthy aging: a report for the 2015 World Report on Ageing and Health. *Gerontologist*. 2016;56(Suppl 2):S243-55.

