

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

→ **CENTRAL**
- BRAIN
- SPINAL CORD

→ **PERIPHERAL**
- NERVES
- GANGLIA

FUNCTIONAL ORGANIZATION:

SENSORY INPUT

SOMATIC SENSORY
VISCERAL SENSORY

MOTOR OUTPUT

SOMATIC MOTOR
AUTONOMIC MOTOR

SYMPATHIC NS

V.S. PARASYMPATHETIC

QUESTIONS:

1. WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THAT DIVISION CALLED?
3. WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
4. WHAT ARE THE PARTS OF A NEURON?
5. WHAT IS AN ACTION POTENTIAL?
- WHERE ARE THEY GENERATED?
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
6. WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

CNS

PNS

BRAIN - "most complicated, mysterious, sensitive organs on Earth"

SPINAL CORD

NERVES
GANGLIA

→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

→ PROPRICEPTION
→ SENSATION

"LEAVING" CNS

→ going to EFFECTORS

"BODY"

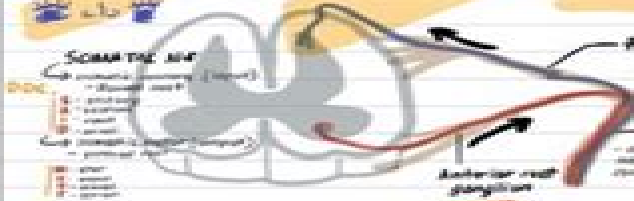
SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

→ INAWARE OF (don't have to think about)
- HEART PUMP, BREATHING
→ CARDIAC MUSCLE, smooth muscle, glands.

SOMATIC sensory
- PROPRICEPTION
- FINE TOUCH

VISCERAL sensory
- INTERNAL ORGANS
AND BLOOD VESSELS



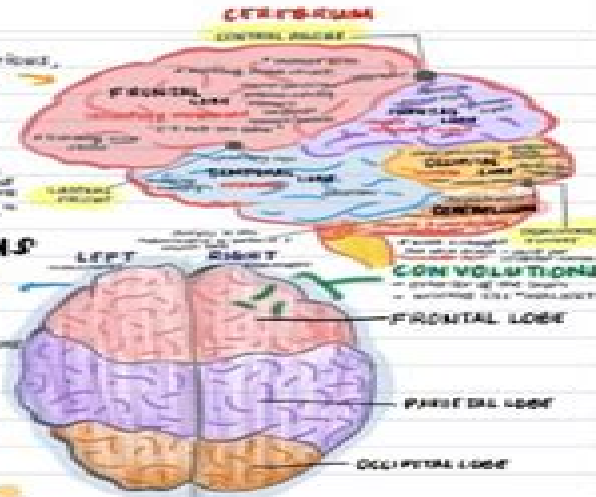
① ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH), TOWARDS THE EFFECTOR END SULEY.

② MYELIN IS AN INSULATING LAYER THAT SERVES AS PROTECTION FOR THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. SLOW AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NERVOUS. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE EFFECTORS.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

- RECEPTOR: DETECTS CHANGE IN (INTERNAL/EXTERNAL) ENVIRONMENT.
- CONTROL CENTER (AUTONOMIC CNS): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
- (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



LEFT RIGHT

CEREBRAL CORTEX

→ HIGH ORDER THINKING
→ COGNITIVE FUNCTIONS

LONGITUDINAL FURROW

CONVOLUTIONS

→ FOLDING OF THE SURFACE
→ INCREASES SURFACE AREA

FRONTAL LOBE

PARIETAL LOBE

OCCIPITAL LOBE

TEMPORAL LOBE

CEREBELLUM

BRIDGES

SPINAL CORD

NEURAL FEEDBACK LOOP

RECEPTOR

CONTROL CENTER

EFFECTOR

NEURON

D-C-B-A

Cell body (soma)

Axon

Myelin sheath

Node of Ranvier

Synaptic cleft

Effector organ

Neurotransmitter

Receptor

SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Anatomy Physiology Chapter Notes Nervous System

EW Minium



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Notes on books Longmans, Green and co,1870 The Integrated Nervous System Walter Hendelman, M.D.,Christopher R. Skinner,Peter Humphreys,2011-05-10 The First Textbook to Take an Integrative Approach to Neurological Diagnosis This introductory full color text teaches students and practitioners how to combine neurological history and physical examination so they can localize pathologies within the nervous system and determine appropriate treatment It provides a wealth of illustrations that emphasize the functioning nervous system in addition to an invaluable DVD for further exploration and access to a state of the art website with additional materials that are updated periodically Give Practitioners the Confidence to Differentiate Diagnose and Build Treatment Plans Provides a wealth of illustrations that emphasize the functioning nervous system Neuroanatomical drawings related to case studies Informative tables with relevant clinical data Radiographic images EEGS microscopic images and other diagnostic tools Includes an invaluable DVD for further exploration User friendly worksheets to provide a proven methodology for evaluation All color illustrations from the book Flash animations of various pathways reflexes and circuits Neuroimaging primer to boost understanding of CT and MRI sequences Supplementary e cases and diagnostic images A wealth of references for self guided study Offers access to a state of the art website All of the features on the DVD Additional supplementary materials to be added periodically Demystifies Neurological Problem Solving Section I Covers the Basics of Neurological Problem Solving Provides a full synopsis of the nervous system Explains key aspects of the neurological examination Delves into clinical problem solving Includes a Fail Safe Localization Etiology Checklist Covers lesions caused by trauma muscle diseases genetic and degenerative diseases vascular problems drugs and toxins infections and autoimmune disorders Section II Applies the Basics to Clinical Cases Presents full case examinations of a nine member fictional family Demonstrates clinical data extraction definition of main clinical points relevant neuroanatomy and the localization process Covers a wide range of disease processes including spinal cord syndromes and traumas vascular injury and seizures Details autoimmune neoplastic degenerative and genetic disorders Differentiates between various causes of seizures stroke and Parkinsonism Provides complete case summaries treatment management and outcomes

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reference is clearly destined to become the definitive anatomical basis for all neuroscience research The book provides a
complete overview and comparison of the structural organization of all vertebrate groups ranging from amphioxus and
lamprey through fishes amphibians and birds to mammals The large specialised section of the work devoted to the CNS of
the various vertebrate groups is preceded by introductory chapters on neurons cell masses fibre tracts morphogenesis
methodology and techniques Although focusing on structure the authors provide functional correlations throughout This
monumental work is and will remain unique the only source of such brilliant illustrations at both the macroscopic and
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