

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



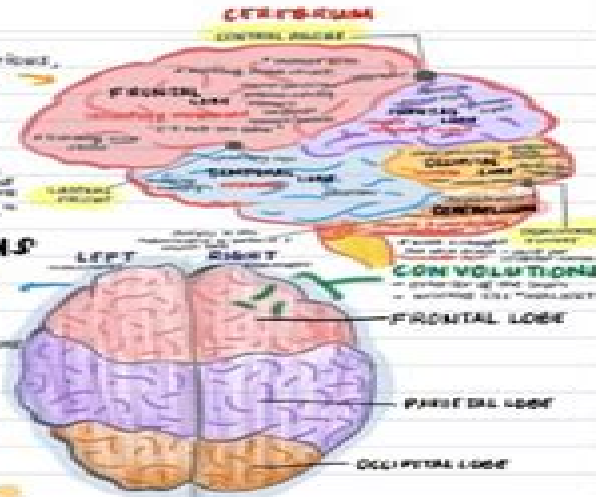
① ACTION POTENTIALS ARE NERVE SIGNALS

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

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DUE TO THE EFFICIENT TRANSMISSION OF ACTION POTENTIALS IN MYELIN, FOR THE FUNCTIONALITY OF NERVES, IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE OTHER.

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

- RECEPTOR: DETECTS CHANGE IN (INTERNAL/EXTERNAL) ENVIRONMENT.
- CONTROL CENTER (AUTONOMIC CENTER): 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

CONVOLUTIONS

→ FOLDING OF THE BRAIN
→ INCREASES SURFACE AREA

FRONTAL LOBE

PARIETAL LOBE

OCCIPITAL LOBE

LONGITUDINAL FURROW

ANATOMY:

① SOMATIC NERVOUS SYSTEM

② AUTONOMIC NERVOUS SYSTEM

③ SYMPATHETIC = FIGHT OR FLIGHT

PARASYMPATHETIC = REST & DIGEST

④ NEURON

D-C-B-A

Cell body (soma)

Axon

Myelin sheath

Node of Ranvier

Effector organ

Neurotransmitter

Receptor

Effector organ

Neurotransmitter

Receptor

Effector organ

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 Of The Brain Lecture Notes

Arthur W. Toga, John C. Mazziotta



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