

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.

SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESSENTIALLY, IT DIVIDES THE BODY INTO SENSORY AND MOTOR SYSTEMS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

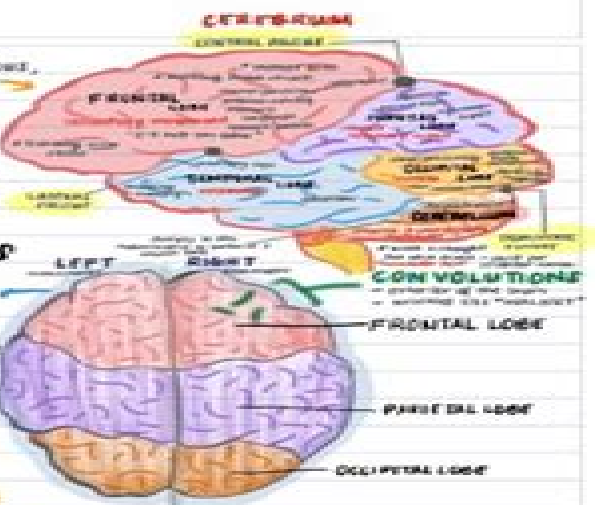
CNS - BRAIN - "most complicated, mysterious, sensitive organs on Earth"
PN.S - SPINAL CORD
- NERVES
- GANGLIA
→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of
→ PROPRICEPTION
→ SENSATION
→ going "IN" THE CNS
"LEAVING" CNS
→ going to EFFECTORS
"BODY"
- SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE
- AUTONOMIC MOTOR
→ DATA BASE OF (LOW) LEVELS OF (BASIC) BODY FUNCTIONS
- HEART RATE, BREATHING
→ CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS

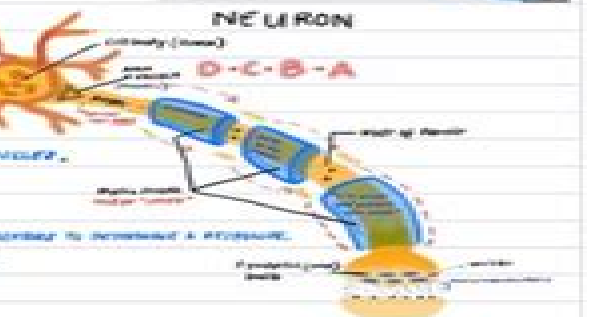
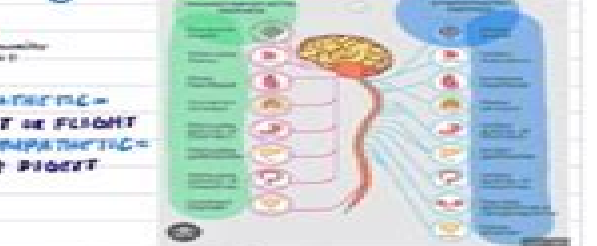


1. ACTION POTENTIALS ARE NERVE SIGNALS
- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BASED ON MYELIN SHEATH),
TOWARDS THE SYMPATHETIC END OF THE NERVE.
2. MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONS. MYELIN, GUNGE AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NERVES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.
3. NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!
- > RECEPTOR: DETECTS CHANGES IN PHYSICAL/ CHEMICAL ENVIRONMENT.
- > CONTROL CENTER (AUTONOMIC NERVOUS SYSTEM): RECEIVES INFORMATION FROM RECEPTORS TO DETERMINE A RESPONSE.
- > EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
(E.G. SWEATING (COOLING) AS BODY TEMPERATURE RISES)



CEREBRAL CORTEX
- HIGH ORDER THINKING
- COGNITIVE FUNCTIONS
- LONGITUDINAL FURROWS
- CONVOLUTIONS
- FOLDING OF THE SURFACE
- INCREASES SURFACE AREA

1. SOMATIC NERVOUS SYSTEM
2. AUTONOMIC NERVOUS SYSTEM



Anatomy Physiology Chapter 7 Notes Nervous System

Adolph Wilhelm OTTO



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