

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

STRUCTURAL ORGANIZATION:

- **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 - 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

"LEAVING" CNS

→ going to EFFECTORS

"BODY"

SOMATIC MOTOR

- SKELETAL MUSCLE

- VOLUNTARILY CONTROLLED

AUTONOMIC MOTOR

→ INNATE OF (LIFE) FUNCTIONS (e.g., heart, lungs, breathing)

→ CARDIAC muscle, smooth muscle, glands

SOMATIC NS

- PROPRICEPTION

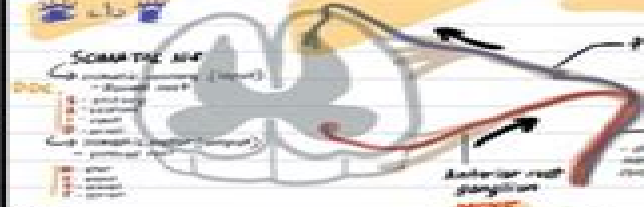
- SENSATION

- FINE MOTOR

VISCERAL NS

- INTERNAL ORGANS

- 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 SYMPATHETIC END BULB.

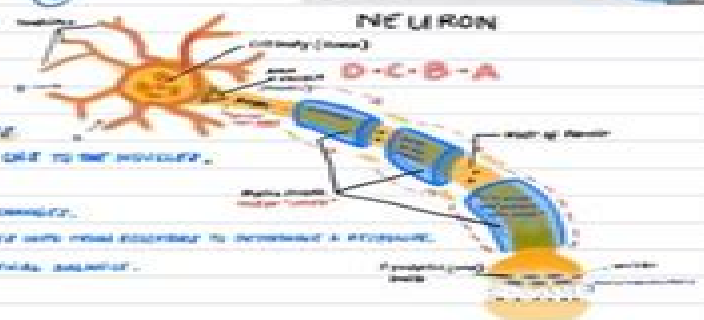
② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL FIBERS. DUE TO THE EFFICIENT TRANSMISSION OF ACTION POTENTIALS IN MYELIN, THE FUNCTIONALITY OF NEURONS IS ENHANCED. IT FACILITATES SMOOTH COMMUNICATION OF NERVE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

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY HOMEOSTASIS

- RECEPTOR: DETECTS CHANGES IN PHYSICAL/ENVIRONMENTAL CONDITIONS.
- CONTROL CENTER (AUTONOMIC NS): RECEIVES INFORMATION FROM RECEPTORS TO DETERMINE A RESPONSE.
- EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY HOMEOSTASIS.
- (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



- ① SOMATIC NERVOUS SYSTEM
- ② AUTONOMIC NERVOUS SYSTEM



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.

Nervous System Note Taking Guide

Michael Rajnik



Nervous System Note Taking Guide:

Student Note-taking Guide to Accompany Drugs and Society, 8th Ed Glen R. Hanson, Peter J. Venturelli, Annette E. Fleckenstein, 2004 **The Student's Guide to Medical Case-taking** Francis Warner, 1881 *The Student's Guide to Clinical Medicine and Case-taking ...* Francis Warner, 1885 **A Practical Guide to Trauma-Sensitive Research** Ayhan Alman, 2024-07-31 A Practical Guide to Trauma Sensitive Research showcases the novel idea of trauma informed interventions for researchers proposing clinical supervision as the standard rather than the exception This framework not only aids in managing the aftermath of trauma but also opens new opportunities for both clinicians and researchers The book details the theoretical foundations of trauma including the latest insights into how trauma affects individuals and communities and addresses practical applications of trauma sensitive methodologies in research It emphasises ethical considerations the importance of clinical supervision and the necessity of adopting a trauma sensitive approach to protect both research participants and researchers from the potential emotional toll of exposure to trauma By bridging clinical practices with qualitative research this book not only opens new professional avenues for clinicians and researchers but also advocates for a research environment that is empathetic ethical and informed by a deep understanding of trauma and its impacts A Practical Guide to Trauma Sensitive Research will be of great utility to User Experience UX Professionals such as service designers UX designers consultants and researchers involved in qualitative research Additionally it will be of value to clinical professionals like social workers psychologists and psychotherapists offering insights and supervision on applying trauma informed approaches in non clinical research settings **ABC of Learning and Teaching in Medicine** Peter Cantillon, Diana F. Wood, 2011-07-08 The ABC of Learning and Teaching in Medicine is a fully revised succinct resource for both novice and experienced medical teachers It is an excellent introductory text for doctors and other health professionals starting out in their careers as well as offering teaching tips and new perspectives for busy practitioners wishing to keep abreast of developments in medical education The ABC emphasises the teacher's role as a facilitator of learning rather than a transmitter of knowledge It is designed to be practical and accessible and will support good teachers in becoming even better at what they do Each chapter seeks to explain how different aspects of learning and assessment work the theory as well as providing descriptions of educational approaches that work the practice This fully updated new edition features core medical education topics such as course design assessment learning in groups feedback and the creation of learning materials It also includes invaluable new chapters that address many of the challenges of medical education such as dealing with students in difficulty the teaching of professionalism in clinical settings and how to support the development of teachers Together these chapters represent an authoritative guide written by a team of educational experts of international renown and is suitable for all health professional educators A Text Book of Physiology: The central nervous system Sir Michael Foster, 1897 A Manual of Antropometry; Or, A Guide to the Physical Examination and Measurement of the Human Body

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