

MEDICAL-SURGICAL

MEDICAL-SURGICAL STUDY NOTES BUNDLE

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NEUROLOGY

NURSING STUDY NOTES

Neurology nursing bundle



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NERVOUS SYSTEM OVERVIEW

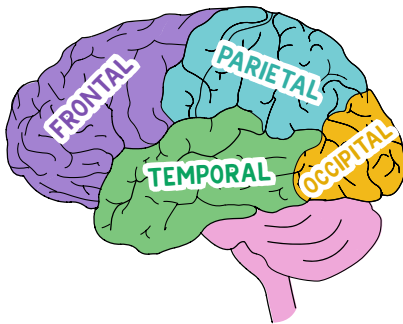
THE NERVOUS SYSTEM IS BROKEN DOWN INTO TWO PARTS:

CNS

CENTRAL NERVOUS SYSTEM

Brain & Spinal Cord

THE CNS FUNCTIONS LIE IN THE DIFFERENT PARTS OF THE BRAIN:



PARIENTAL

- Sensation
- Spatial and visual perception

FRONTAL

- Motor control
- Problem solving
- Expressive speech **BROCA'S AREA**

OCCIPITAL

- Sight
- Visual perception & interpretation

TEMPORAL

- Auditory processing
- Language comprehension **WERNICKE'S AREA**
- Memory retrieval

SPINAL CORD

Made up of nerve cells that carry messages between the brain and the rest of the body

PNS

PERIPHERAL NERVOUS SYSTEM

Nerves outside the brain and spinal cord

SOMATIC NERVOUS SYSTEM

Controls all 5 senses & movement

THINK **S** FOR **SENSES**

SENSORY NEURONS

REST OF BODY → CNS

- Afferent neurons
- Receives info from body to brain
- Contain dorsal root ganglion
 - ▶ Carry sensory information from periphery to spinal cord

EXAMPLE: Moving hand away after touching hot stove

MOTOR NEURONS

CNS → REST OF BODY

- Efferent neurons
- Send info from brain to body
- Contain ventral root ganglion
 - ▶ Carry instructions from brain/SC to muscular contraction

EXAMPLES:

- ▶ Walking
- ▶ Speaking
- ▶ Swallowing

MEMORY TRICKS

SAME

Sensory Afferent Motor Efferent

DAVE

Dorsal Afferent Ventral Efferent

AFFERENT = ARRIVES

Signals arrive at CNS

EFFERENT = EXITS

Signals exit CNS to body

AUTONOMIC NERVOUS SYSTEM

Controls **involuntary** physiological processes

THINK THINGS THAT **AUTOMATICALLY OCCUR**:

- ▶ Heart rate
- ▶ Respirations
- ▶ Digestion

SYMPATHETIC NERVOUS SYSTEM

FIGHT OR FLIGHT RESPONSE

- ▶ ↑ HR ↑ BP
- ▶ Dilates pupils
- ▶ Stops salivation
- ▶ ↑ blood sugar
- ▶ Relaxes bladder
- ▶ Inhibits digestion



REMEMBER **S** FOR **STRESS**

PARASYMPATHETIC NERVOUS SYSTEM

REST & DIGEST SYSTEM

- ▶ ↓ HR ↓ BP
- ▶ Constricts pupils
- ▶ Promotes salivation
- ▶ Bronchoconstriction
- ▶ Contracts bladder
- ▶ Stimulates GI motility



REMEMBER **R** IN **PARA** FOR **RELAX**