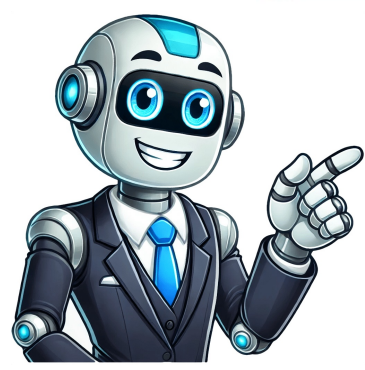


I'm human





Cerebral System Key Terms Cerebrum: Main Brain Structure Sensory Neurons: Carry Signals to Spinal Chord & Brain Motor Neurons: Send Signals From Brain/Spinal Cord to Muscles Cerebellum: Regulates Balance, Posture, Movement, Coordination Synapse: Space Between Two Neurons for Electrical Signal Transfer Cell Body: Neuron Hub for Message Processing Spinal Cord: Connects Brain to Other Body Parts via Messages Brain: Central Control Center for Nervous System Neurons: Nerve Cells Carrying Body Messages Nervous System: Overall Body Mechanism Dendrites: Short Strands Carrying Messages to Cell Bodies Medulla: Controls Breathing, Heartbeat, and Vital Functions Association Neurons: Links Sensory & Motor Neurons Reflex: Automatic Response Without Brain Involvement Impulse: Message Traveling Through a Single Neuron The nervous system is a complex network that relies on oxygen to function, located in the brain and spinal cord. It consists of cells that transmit impulses, nerve fibers, and chemical messengers that relay information. The system connects the brain to the spinal cord, controlling involuntary actions and reflexes. Located at the back of the skull, the cerebrum coordinates balance and movement. The brain also controls voluntary actions, with two lobes responsible for different functions. A fatty insulating layer surrounds most nerve fibers, while a bundle of fibers carries signals to organs and tissues in the body. The nervous system includes various structures, such as neurons, dendrites, and perikaryons, which work together to process information. It also encompasses different types of nerves, including sensory and motor nerves, and specialized nerves like the trigeminal nerve for facial sensation. The system plays a crucial role in regulating bodily functions, from heart rate to movement, and is essential for maintaining life.

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