

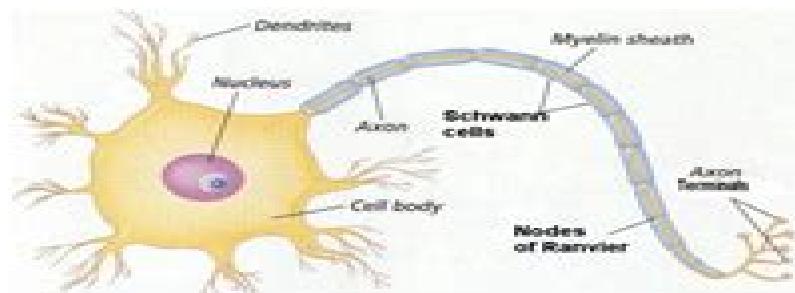
## Basic Cells of the Nervous System

### Neuron

- Basic functional cell of nervous system
- Transmits impulses (up to 250 mph)

### Parts of a Neuron

- **Dendrite** – receive stimulus and carries it impulses toward the cell body
- **Cell Body with nucleus** – nucleus & most of cytoplasm
- **Axon** – fiber which carries impulses away from cell body
- **Schwann Cells** - cells which produce myelin or fat layer in the Peripheral Nervous System
- **Myelin sheath** – dense lipid layer which insulates the axon – makes the axon look gray
- **Node of Ranvier** – gaps or nodes in the myelin sheath
- **Impulses travel from dendrite to cell body to axon**



Three types of Neurons

- **Sensory neurons** – bring messages to CNS
- **Motor neurons** - carry messages from CNS
- **Interneurons** – between sensory & motor neurons in the CNS



### Impulses

- **A stimulus** is a change in the environment with sufficient strength to initiate a response.
- **Excitability** is the ability of a neuron to respond to the stimulus and convert it into a nerve impulse
- **All or Nothing Rule** – The stimulus is either strong enough to start an impulse or nothing happens
- Impulses are always the **same strength along a given neuron** and they are **self-propagation** – once it starts it continues to the end of the neuron in only one direction- **from dendrite to cell body to axon**
- The nerve impulse causes a movement of ions across the cell membrane of the nerve cell.

### Synapse

- **Synapse** - small gap or space between the axon of one neuron and the dendrite of another - **the neurons do not actually touch at the synapse**
- It is junction between neurons which uses neurotransmitters to start the impulse in the second neuron or an effector (muscle or gland)
- The synapse insures one-way transmission of impulses

Chemicals called neurotransmitters cross a gap in the synapse and continue the nerve impulse.



### Neurotransmitters

**Neurotransmitters** – Chemicals in the junction which allow impulses to be started in the second neuron

# Nervous System A Tutorial Study Guide

**Ensheng Dong**

## **Nervous System A Tutorial Study Guide:**

*Illustrated Study Guide for the NCLEX-RN® Exam* JoAnn Zerwekh, Jo Carol Claborn, 2010-01-05 Fun and engaging this must have review resource covers the nursing concepts and content found on the latest NCLEX RN examination. It features a concise outline format that's perfect for studying as well as 2,020 review questions to test your knowledge and help you prepare for the exam. Colorful illustrations and mnemonic cartoons clarify essential nursing concepts and offer a visual way for you to remember key facts for the NCLEX exam. Answers and rationales are provided for every practice question. Unique An integrated systems approach incorporates pediatric, adult, and older adult lifespan considerations in each body system chapter. Unique Mnemonic cartoons provide a fun, easy way to review and remember key nursing concepts. A full color user friendly design enhances content and helps you quickly locate special features. Appendixes for each chapter summarize medications and nursing procedures for quick reference. Practice questions at the end of each chapter and on the companion CD (2,020 in all) provide a wealth of NCLEX examination preparation in both print and electronic formats. The companion CD features practice questions available in both study and quiz exam modes that are divided by content area and allow you to create a customized review experience based on your personal study needs. Electronic alternate item format questions on the CD such as priority drag and drop and hot spot illustrated point and click questions prepare you for the interactive question types you'll encounter on the computerized NCLEX examination. Answers and rationales for all review questions help you understand why correct answers are right and incorrect options are wrong. An Alert feature highlights key nursing concepts frequently found on the NCLEX examination. Separate chapters on pharmacology and nursing management help you focus on these areas of emphasis on the NCLEX examination. Additional practice questions raise the total to 2,020 in the book and on the companion CD. More figures, charts, and cartoons further illustrate important anatomy, procedures, and disease processes. Application and analysis questions challenge you to use your critical thinking skills and closely mirror the types of questions on the NCLEX RN examination. UNIQUE A pediatric disorders icon makes it easy to distinguish pediatric disorders from adult disorders in chapters with system integrated content. The detailed table of contents includes disorder headings to help you quickly find information on specific disorders within system integrated content.

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