

Anatomy & Physiology Chapter 12 Notes: The Central Nervous System

- CNS consists of brain and spinal cord
- **Cephalization**
 - Evolutionary development of rostral (anterior) portion of CNS
 - Resulted in increased number of neurons
 - Highest level reached in human brain

12.1 Brain Development

- Embryologically, the brain and spinal cord begin as a **neural tube**
- Neural tube's anterior end expands, and constrictions form three **primary vesicles**:
 - Prosencephalon, or **forebrain**
 - Mesencephalon, or **midbrain**
 - Rhombencephalon, or **hindbrain**
- Posterior end becomes spinal cord
- Primary vesicles give rise to five **secondary brain vesicles**
 - Forebrain becomes **telencephalon** and **diencephalon**
 - Midbrain remains undivided
 - Hindbrain becomes **metencephalon** and **myelencephalon**
- Telencephalon gives rise to two **cerebral hemispheres**
 - Together make up the **cerebrum**
- Diencephalon becomes the **epithalamus, thalamus, hypothalamus, and retina**
- Mesencephalon remains the **midbrain**
- Metencephalon becomes the **pons** and **cerebellum**
- Myelencephalon becomes **medulla oblongata**
- Central cavity of neural tube becomes the **ventricles**
- The brain grows faster than surrounding membranous skull, so it must fold to occupy available space
 - Forebrain moves toward **brain stem** (midbrain, pons, medulla oblongata)
 - Cerebral hemispheres double back and envelop diencephalon and midbrain while creasing and folding to increase surface area

Brain Regions and Organization:

- Adult brains have four regions:
 1. Cerebral hemispheres
 2. Diencephalon
 3. Brain stem, consisting of:
 - ◆ Midbrain
 - ◆ Pons
 - ◆ Medulla
 4. Cerebellum
- Gray matter: short, nonmyelinated neurons and cell bodies
- White matter: myelinated and nonmyelinated axons
- Basic pattern found in CNS: central cavity surrounded by gray matter, with white matter external to gray matter
- Features and changes of pattern:
 1. Spinal cord exhibits this basic pattern; however, pattern changes with ascent into brain stem
 2. Brain stem has additional gray matter nuclei scattered within white matter
 3. Cerebral hemispheres (cerebrum) and cerebellum contain outer layer of gray matter called the **cortex**

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