

# Chapter 12 - Central Nervous System

(mostly brain and some spinal cord)

## PART 1

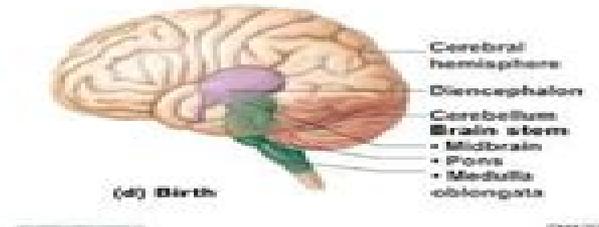
**Cephalization:** evolutionary development of the CNS which led to increased number of neurons

Early development in embryo of brain and spinal cord → **neural tube**

- Posterior end becomes spinal cord
- Anterior end expands becomes 3 primary vesicles
  - 1. Forebrain (pro)
  - 2. Midbrain (mes)
  - 3. Hindbrain (rho)

Adult brains have 4 regions:

1. Cerebral hemispheres
2. Diencephalon
3. Brain stem made up of
  - a. Midbrain
  - b. Pons
  - c. Medulla
4. Cerebellum



**Grey Matter:** non-myelinated neurons and cell bodies; basal nuclei and dendrites, no axons

**White Matter:** white b/c myelin is white therefore myelinated axons

Pattern in brain is: Grey, White, grey from inside out

Pattern in spinal region: just Grey, White from inside out

**Ventricles:** fluid filled chambers filled with cerebrospinal fluid and lined with ependymal cells

- Lateral ventricles: large, C-shaped located deep in each hemisphere of brain
  - Each is connected to third ventricle via the interventricular foramen
  - Third ventricle is connected to the fourth by the cerebral aqueduct



# Chapter 12 The Central Nervous System Study Guide Answers

**John F. Ash, David A. Morton, Sheryl A.  
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