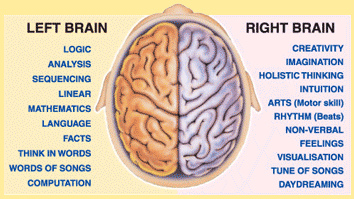
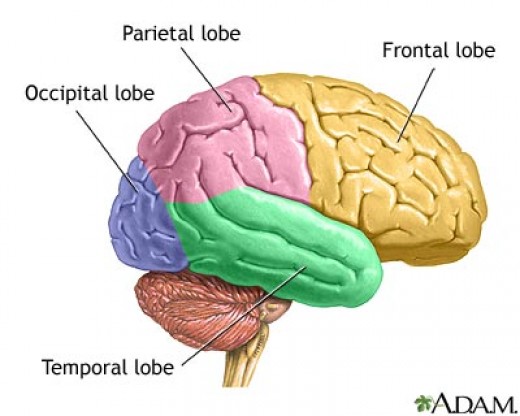
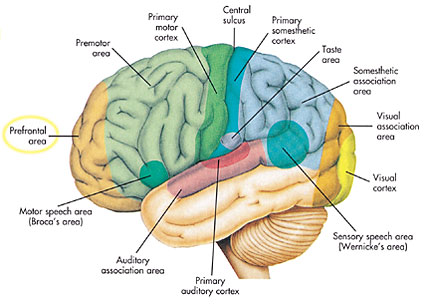
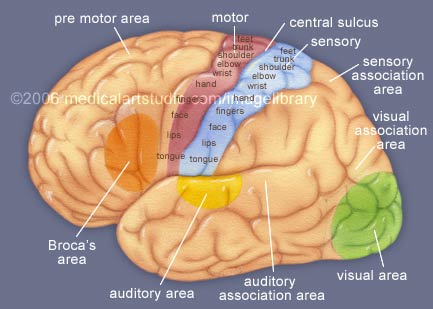
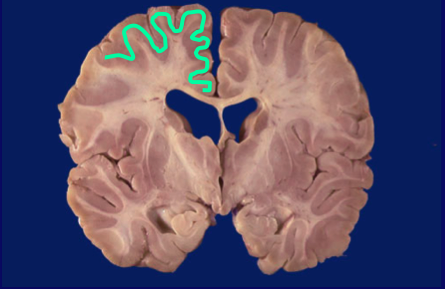
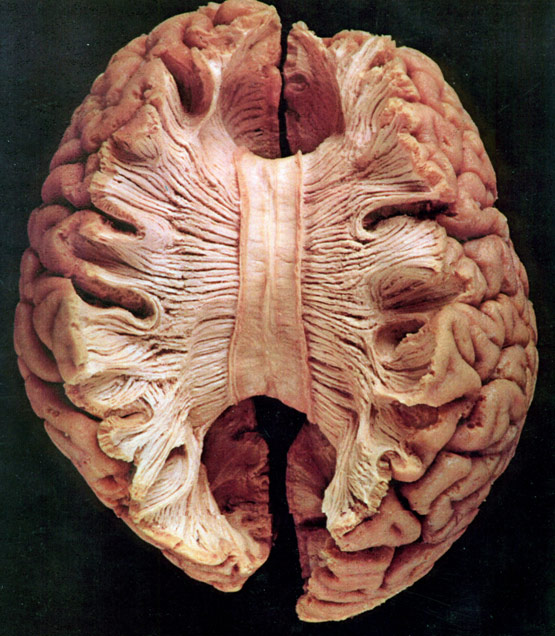
IV. BRAIN STRUCTURE & FUNCTION

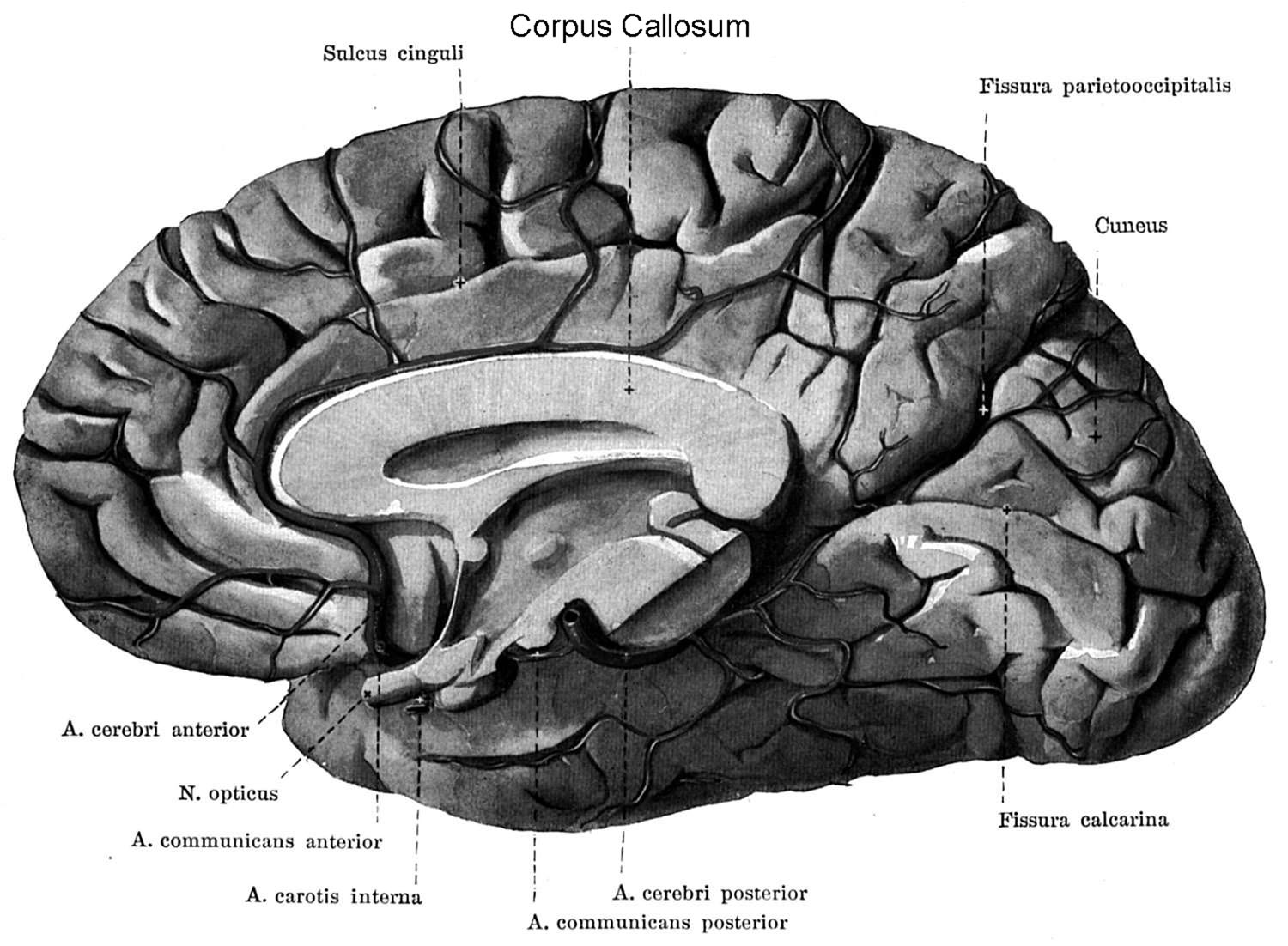
1. Four main regions of the brain:

* Cerebrum
* Diencephalon
* Brain Stem
* Cerebellum

1. Brain Regions in Detail
2. Cerebrum
   1. Largest visible area
   2. Ridges (gyri) & grooves (sulci)
   3. Split into right & left hemispheres
   4. Divided into several “lobes”
   5. Responsible for:

* Speech
* Memory
* Logical thought
* Emotions
* Voluntary movement
* Senses
  1. Outer area called “gray matter”
* Unmyelinated nerves
* Where all functions in “e” happen.
  1. Inner area called “white matter”
* Carries messages throughout cerebrum
* Corpus callosum – fibers that connect cerebral

 hemispheres.



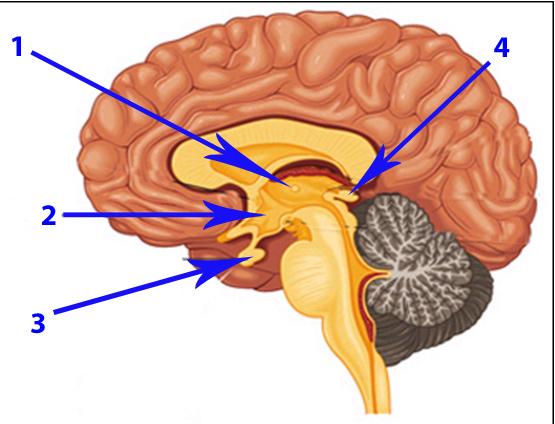
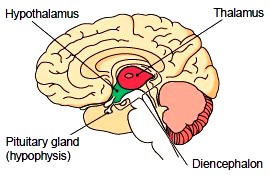
1. Diencephalon
   1. Inside cerebrum
   2. Major structures:

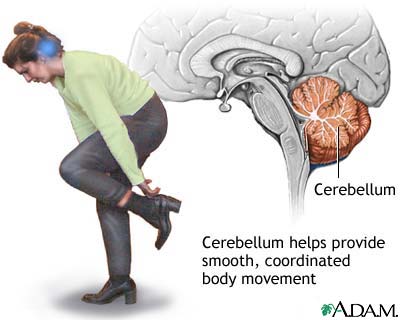
* Thalamus – tells if sensations are good or bad
* Hypothalamus – regulation of body

temperature, water balance,

metabolism

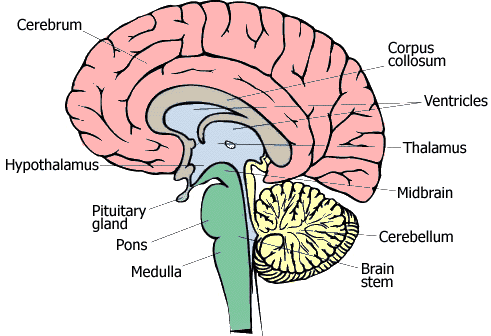
* Epithalamus – makes cerebrospinal fluid *(stay tuned)*



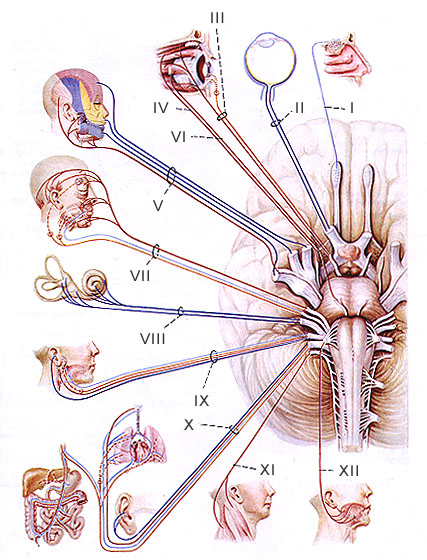
1. Cerebellum
   1. Fine motor control and balance
2. Brain Stem
   1. Three regions:

* Midbrain – vision & hearing reflexes
* Pons – breathing control
* Medulla – heart rate, blood pressure,

swallowing, vomiting



1. Cranial Nerves
2. Twelve motor nerves that emerge directly from brain.
3. Control sense organs and muscles of head, neck, viscera.



Assn: *Pleasure Me, Pleasure Me!* Article & questions