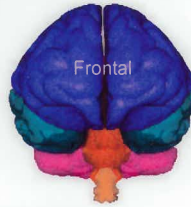


Changes Observed After Brain Injury

Changes After Frontal Lobe Damage

- Difficulty sequencing
- Perseveration
- Difficulty with attention
- Personality changes
- Difficulty with problem-solving
- Loss of verbal expression
- Loss of spontaneity
- Inflexible thinking
- Uncontrollable emotional, social and sexual behavioral changes
- Poor initiation of voluntary movements



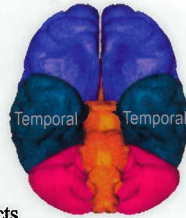
Changes After Occipital Lobe Damage

- Vision defects (visual field cuts)
- Difficulty visually locating objects
- Difficulty identifying colors
- Hallucinations and visual distortions
- Word blindness
- Inability to recognize object movement
- Difficulty reading and writing
- Poor processing of visual information



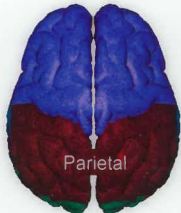
Changes After Temporal Lobe Damage

- Difficulty understanding spoken words
- Disturbance of selective attention
- Short-term memory loss
- Change in sexuality
- Persistent talking
- Increased aggressive behavior
- Difficulty identifying and categorizing objects
- Difficulty recognizing faces and visually locating objects



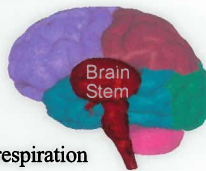
Changes After Parietal Lobe Damage

- Difficulty with academic skills
- Difficulty naming objects
- Right/left confusion
- Impaired processing of tactile senses (touch)
- Inability to focus visual attention
- Difficulty with eye-hand coordination
- Lack of awareness of body parts
- Impaired spatial orientation



Changes After Brain Stem Damage

- Difficulty swallowing food and fluid
- Difficulty with balance and movement
- Dizziness and nausea (vertigo)
- Impaired arousal and sleep regulation
- Impaired regulation of temperature, heart rate and respiration



Changes After Cerebellum Damage

- Impaired gross and fine motor coordination
- Loss of the ability to walk
- Poor postural control
- Inability to make rapid movements
- Impaired control of eye movements
- Tremors and/or dizziness
- Slurred speech

