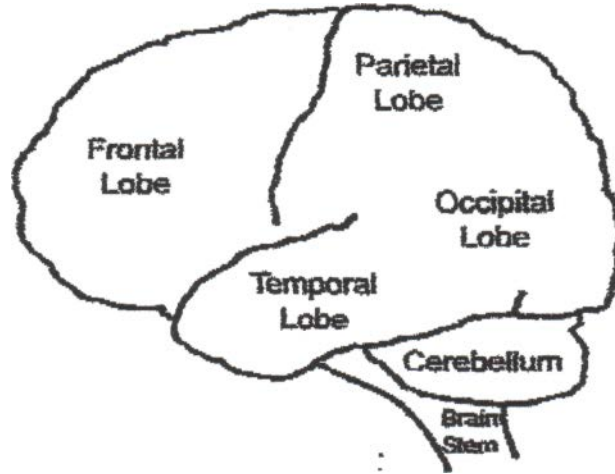


Brain injury patterns for dysfunction by location of injury

Frontal Lobe

- Initiation
- Problem-solving
- Judgment
- Inhibitions of behavior
- Planning/anticipation
- Self-monitoring
- Motor planning
- Personality/emotions
- Awareness of Abilities/limitations
- Organization
- Attention/concentration
- Mental flexibility
- Speaking (expressive language)



Parietal Lobe

- Sense of touch
- Differentiation: size, shape, color
- Spatial perception
- Visual perception

Occipital Lobe

- Vision

Cerebellum

- Balance
- Coordination
- Skilled motor activity

Brain Stem

- Breathing
- Heart rate
- Arousal/consciousness
- Sleep/wake functions
- Attention/concentration

Temporal Lobe

- Memory
- Hearing
- Understanding **language** (Receptive language)
- Organization and sequencing

General Patterns of Dysfunction by Location of Injury

Right Side of Brain

- Impairments in visual-spatial perception
- Left-neglect or inattention to the left side of space or body
- Decreased awareness of deficits
- Altered creativity and music perception
- Loss of the gestalt, or "big picture"
- Visual memory deficits
- Decreased control over left-sided movements

Left Side of Brain

- Difficulties in understanding language (receptive' language)
- Difficulties in speaking or verbal output (expressive language)
- Catastrophic reactions (depression, anxiety)
- Verbal memory deficits
- Decreased control over right-sided movements
- Impaired logic
- Sequencing difficulties

Diffuse

- * Reduced thinking speed
- * increased confusion
- * Reduced attention and concentration
- * Increased fatigue
- * Impaired cognitive functions across all lobes