

# Brain Behavior Relationships

(revised 4-2006)

<b>Right Side of Brain</b>	<b>Left Side of Brain</b>	<b>Corpus Callosum</b>	<b>Hippocampus</b>	<b>Brain Stem</b>	<b>Cerebellum</b>
Impairments in visual-spatial perception.	Difficulties in understanding language (receptive language).	Location: Middle of the brain	Location: Middle of brain below Corpus Callosum	Breathing	Balance
Left-neglect, or inattention to the left side of space or body.	Difficulties in speaking or verbal output (expressive language).	Pulls function of right and left hemispheres together.	Part of Limbic system that helps you respond emotionally.	Heart rate	Coordination
Decreased awareness of deficits.	Catastrophic reactions (depression, anxiety).	“Highway” that connects the two hemispheres.	Helps you put short term memory into storage for long term.	Arousal/Consciousness	Skilled motor activity
Altered creativity and music perception.	Decreased control over right-sided movements.		May also influence hormones.	Sleep/Wake Functions	
Loss of gestalt, or “big picture”.	Impaired logic		Memory structure of the brain.	Attention/Concentration	
Visual memory deficits	Sequencing difficulties				
Decreased control over left-sided movements.					

Information collected from Minnesota State TBI Manual / Training Modules