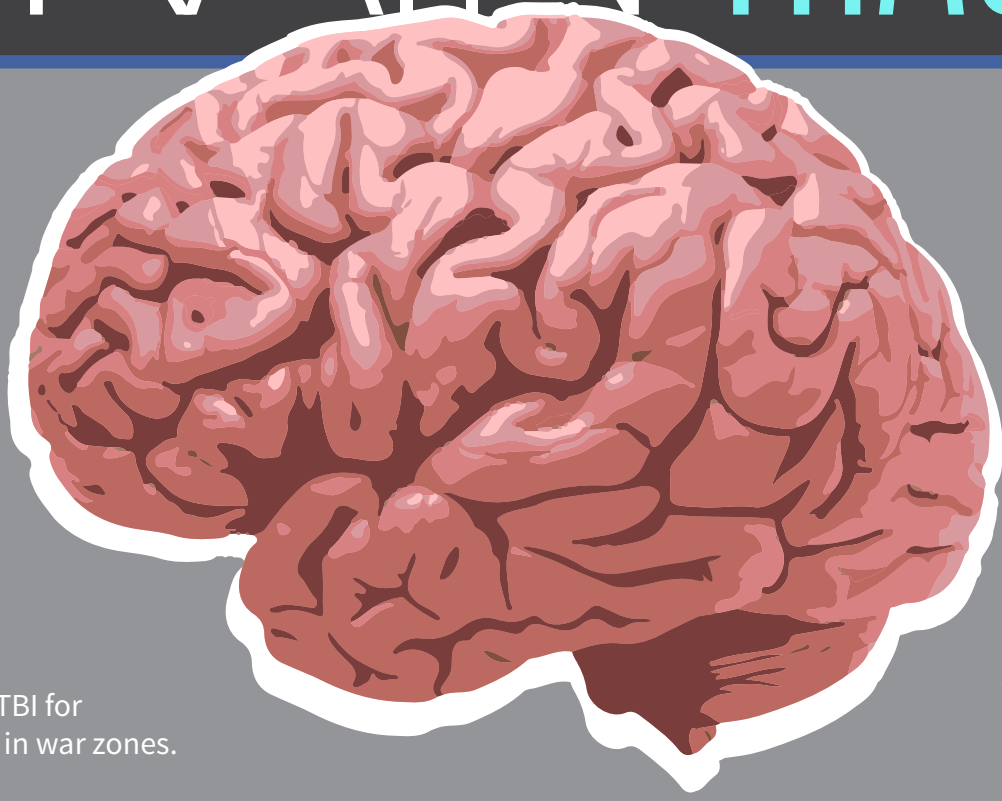


BRAIN TRAUMA



LEADING CAUSES*

FALLS	41%
CRASHES	14%
BLOWS	15%
ASSAULTS	11%
OTHER	19%

*Blasts are a leading cause of TBI for active duty military personnel in war zones.

2.5 MILLION

Cases reported yearly in the United States:

Die	50,000
Hospitalized	280,000
Military*	24,833

*Reported TBI cases in 2014

DIAGNOSIS:

COMA

No response to sensory stimulation (system-wide impairment)

DELIRIUM

Reduced awareness, impaired ability to focus, and/or shift attention

AMNESIA

Impaired episodic memory, including orientation and autobiographical memory loss

DYSEXECUTIVE SYNDROME

Impairment of goal-directed behavior

MAY REFLECT DAMAGE TO:



SALIENCE NETWORK

DIRECTS ATTENTION TO SALIENT EVENTS

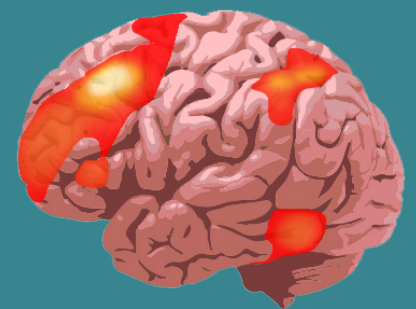
Coordinates behavior and regulates emotion



DEFAULT MODE NETWORK

INTERNAL FOCUS OF ATTENTION

Maintains memory, enables one to envision the future



CENTRAL EXECUTIVE NETWORK

EXTERNAL FOCUS OF ATTENTION

Involved in planning, judgment and decision-making

PROPOSED INTERVENTIONS:



- Salience Network training and brain stimulation
- Physical fitness training



- Default Mode Network training and brain stimulation
- Physical fitness training



- Central Executive Network training and brain stimulation
- Physical fitness training

For more information:

Report: Brain-injured patients need therapies based on neuroscience



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