

Traumatic Brain Injury

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ED 243

Positions

- ✿ *How can we support students with traumatic brain injuries?*
- ✿ *Devin- School Counselor*
- ✿ *Shawna- High School English Teacher*
- ✿ *Maggie- Administration*

Meet Billy

- ✿ 15 years old
- ✿ Billy recently fell off his skateboard, was not wearing a helmet. He has been diagnosed with a traumatic brain injury.
- ✿ Has been attending physical therapy; he has been regaining strength in his major muscle groups. Billy is still having some problems functioning in the high school setting.
- ✿ His personality is different and he once excelled in your English classroom, but now he seems to be struggling.
- ✿ He is unable to concentrate for long periods and now becomes easily frustrated.

What is Traumatic Brain Injury? (TBI)

- ✦ Only disability category that can be obtained after birth.
- ✦ *“Injury to the brain caused by an external physical force, resulting in total or partial functional disability of psychosocial impairment.”*
- ✦ *Inclusion p. 10*
- ✦ Can also be caused by blast waves, common in military personnel.



Facts

- ★ No two brains are the same, so everyone will be affected differently

- ★ Causes

- ★ Accidents

- ★ Falls

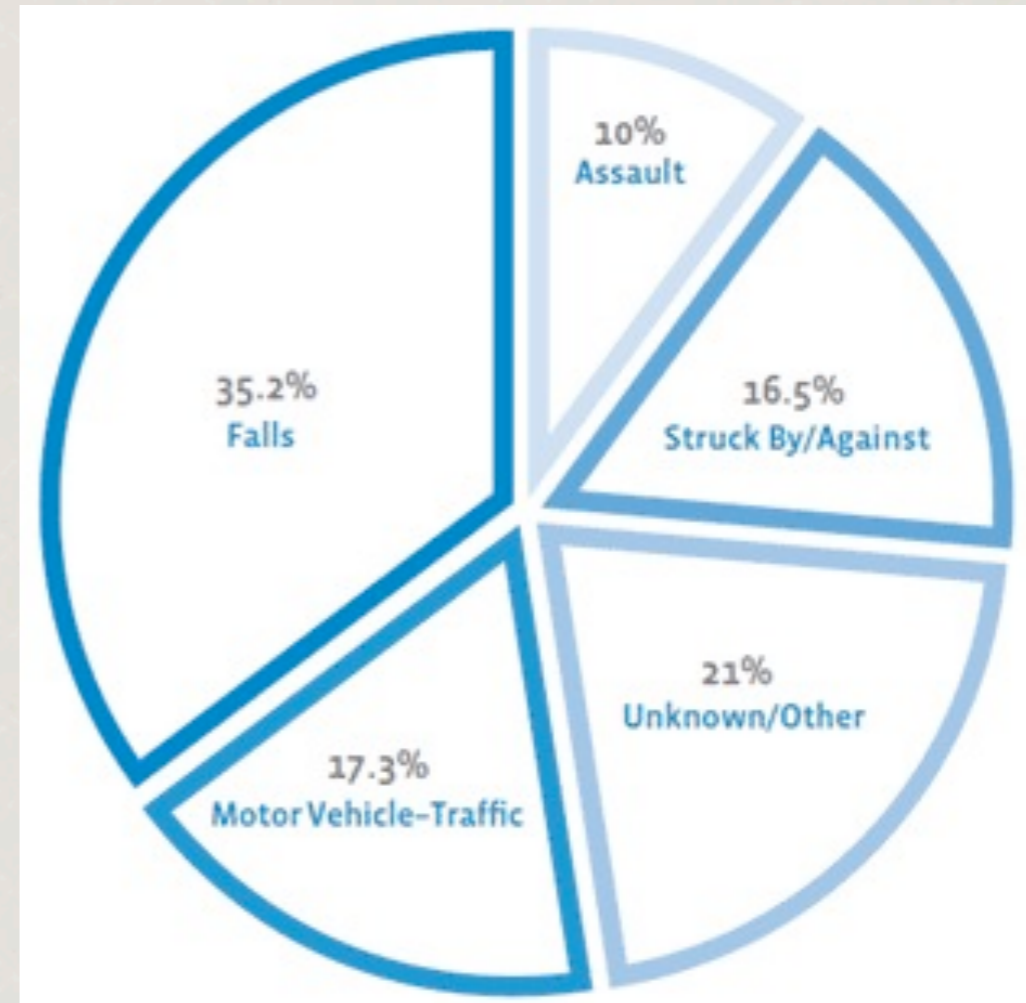
- ★ Sports Injuries

- ★ Automobile accidents

- ★ Abuse

- ★ Explosions (Military)

- ★ Chart from CDC



Types

✦ Mild

✦ Example: Concussion

Thinking/ Remembering	Physical	Emotional/ Mood	Sleep
Difficulty thinking clearly	Headache	Irritability	Sleeping more than usual
Feeling slowed down	Nausea or vomiting Dizziness	Sadness	Sleep less than usual
Difficulty concentrating	Sensitivity to noise or light Balance problems	More emotional	Trouble falling asleep
Difficulty remembering new information	Feeling tired, having no energy	Nervousness or anxiety	

Types

◆ Severe

- ◆ Closed- injury to the brain caused by movement of the brain within the skull
- ◆ Penetrating- injury to the brain caused by a foreign object entering the skull

Extended period of unconsciousness or amnesia

- **Cognitive Function** (e.g., attention and memory)
- **Motor function** (e.g., extremity weakness, impaired coordination and balance)
- **Sensation** (e.g., hearing, vision, impaired perception and touch)
- **Emotion** (e.g., depression, anxiety, aggression, impulse control, personality changes)

Effects Video

- ✿ TBI Effects on each lobe

- ✿ 8:20

Support

- ✦ Behavioral
 - ✦ Positive Reinforcement
 - ✦ Nonverbal cueing
 - ✦ Regular verbal feedback
 - ✦ Eliminating external distractions

Support (cont.)

- ✿ Academic
 - ✿ Adequate rest time
 - ✿ Extra time
 - ✿ Assistive technology
 - ✿ Breaking down assignments
 - ✿ Limited academic load
 - ✿ Offering alternative assignments
 - ✿ Testing accommodation
 - ✿ Direct instruction

Support (cont.)

- ✦ Social
 - ✦ Ongoing counseling and guidance
 - ✦ Social skills groups
 - ✦ TBI support groups

Teaching Strategies

- ◆ Attention/ Concentration Problems
 - ◆ Reduce distractions in work area
 - ◆ Divide work
 - ◆ Ask the student to summarize information orally that has just been presented
 - ◆ Use cue words/ Non verbal cues

Teaching Strategies

- ✿ Memory Problems
 - ✿ Repeat/ Summarize Information
 - ✿ Encourage the use of an assignment sheet or planner
 - ✿ Teach student to categorize or chunk information
 - ✿ Help student make connections to relevant prior knowledge

Teaching Strategies

- ✦ Organization Problems
 - ✦ Additional time for review
 - ✦ Checklists for complex tasks
 - ✦ Written schedule of daily routines
 - ✦ Outline based on class lecture
 - ✦ Color-coded materials for each class

Teaching Strategies

- ✿ Problems Following Directions
 - ✿ Provide instructions both written and orally
 - ✿ Have student repeat instructions
 - ✿ Underlining/ highlighting significant parts of directions
 - ✿ Checking each step and providing immediate feedback
 - ✿ Slow down pace

Simulation

- ✿ Physical

- ✿ Wear oven mitt and try to catch object

- ✿ Thought

- ✿ Describe the sky without words like: blue, clouds, sun, weather.

Christian Bauerle's Story

✿ <http://www.youtube.com/watch?v=FQT52b8GhaM&feature=related>

✿ 5:05

Resources

Lash, Marilyn. "Teaching Strategies for Students with Brain Injuries." *TBI Challenge!* 4.2 (2000): 1-4. *Google Scholar*. Web. 21 Oct. 2012.

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Schilling, Ethan J., and Yvette Q. Getch. "Getting My Bearings, Returning to School: Issues Facing Adolescents with Traumatic Brain Injury." *Teaching Exceptional Children* 45.1 (2012): 54-63. *Academic Search Premier*. Web. 13 Oct. 2012.

"Traumatic Brain Injury." *Center for Disease Control*. CDC, 26 Sept. 2012. Web. 3 Nov. 2012.

<<http://www.cdc.gov/TraumaticBrainInjury/index.html>>.