Facts about Traumatic Brain Injury

What is a traumatic brain injury?

A traumatic brain injury (TBI) is defined as a blow or jolt to the head or a penetrating head injury that disrupts the function of the brain. Not all blows or jolts to the head result in a TBI. The severity of such an injury may range from "mild," i.e., a brief change in mental status or consciousness to "severe," i.e., an extended period of unconsciousness or amnesia after the injury. A TBI can result in short or long-term problems with independent function.

How many people have TBI?

Of the 1.4 million who sustain a TBI each year in the United States:

- 50,000 die;
- 235,000 are hospitalized; and
- 1.1 million are treated and released from an emergency department.¹

The number of people with TBI who are not seen in an emergency department or who receive no care is unknown.

What causes TBI?

The leading causes of TBI are:

- Falls (28%);
- Motor vehicle-traffic crashes (20%);
- Struck by/against (19%); and
- Assaults (11%).¹

Blasts are a leading cause of TBI for active duty military personnel in war zones.²

Who is at highest risk for TBI?

- Males are about 1.5 times as likely as females to sustain a TBI.¹
- The two age groups at highest risk for TBI are 0 to 4 year olds and 15 to 19 year olds.¹
- Certain military duties (e.g., paratrooper) increase the risk of sustaining a TBI.³
- African Americans have the highest death rate from TBI.¹

What are the costs of TBI?

Direct medical costs and indirect costs such as lost productivity of TBI totaled an estimated $56.3 billion in the United States in 1995.⁴

What are the long-term consequences of TBI?

The Centers for Disease Control and Prevention estimates that at least 5.3 million Americans currently have a long-term or lifelong need for help to perform activities of daily living as a result of a TBI.⁵

According to one study, about 40% of those hospitalized with a TBI had at least one unmet need for services one year after their injury. The most frequent unmet needs were:

- Improving memory and problem solving;
- Managing stress and emotional upsets;
- Controlling one's temper; and
- Improving one's job skills.⁶

TBI can cause a wide range of functional changes affecting thinking, sensation, language, and/or emotions. It can also cause epilepsy and increase the risk for conditions such as Alzheimer's disease, Parkinson's disease, and other brain disorders that become more prevalent with age.⁷