



OHIO

Special Emphasis Report: Traumatic Brain Injury 2014

Understanding TBI

Traumatic brain injury (TBI) is a serious public health problem and in the United States. A TBI is caused by a bump, blow, jolt, or penetration to the head that disrupts the normal function of the brain. Each year, traumatic brain injuries contribute to a substantial number of deaths and cases of permanent disability.

Impact and Magnitude of TBI

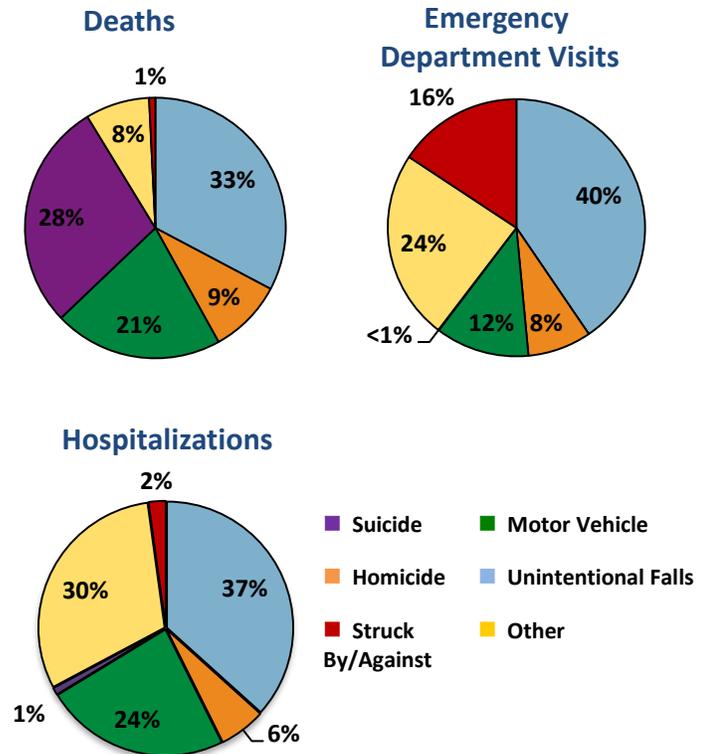
During 2014, 2,327 (18.5 per 100,000) people in Ohio died where TBI was reported as a cause of death on the death certificate alone or in combination with other injuries or conditions. Another 6,768 (55.1 per 100,000) were hospitalized with a TBI alone or in combination with other injuries or conditions. An additional 111,757 (978.4 per 100,000) were treated and released from emergency departments with a TBI alone or in combination with other injuries or conditions. An unknown number of individuals sustained injuries that were treated in other settings or went untreated.

Causes of TBI

Cause of injury varies across the three levels of severity. Firearm-related was the leading cause of injury among those who died where TBI was reported as a cause of death on the death certificate alone or in combination with other injuries or conditions. Unintentional falls were the leading cause of injury among those who were hospitalized with a TBI alone or in combination with other injuries or conditions. Unintentional falls were also the leading cause of injury among those who were treated and released from emergency departments with a TBI alone or in combination with other injuries or conditions.

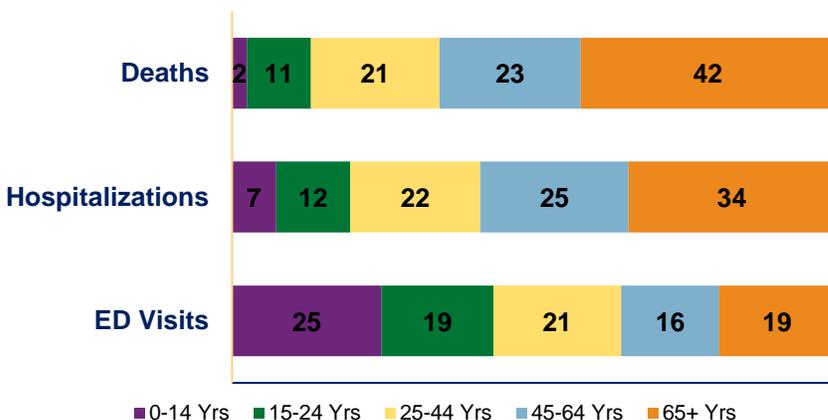
Notes: Firearm-related injuries were reported but excluded from the etiology graphic due to overlap with multiple categories (e.g., homicide/assault, suicide). Firearm-related was the cause of injury for 35% of deaths, 1% of hospitalizations, and <1% of emergency department visits. Completeness of external-cause coding for TBI-related cases can impact the accuracy of the cause classifications for hospitalizations and emergency department visits.

Figure 1: Percentage of Annual TBI-Related Deaths*, Hospitalizations, and Emergency Department Visits**, by External Cause, in Ohio, 2014**



*Source: ODH Vital Statistics **Source: Ohio Hospital Association

Figure 2: Percentage of Annual TBI-Related Deaths*, Hospitalizations, and Emergency Department Visits**, by Age, in**



TBI by Age

The highest number of TBI-related deaths* were among persons age 65 and older. Among those with TBI-related hospitalizations,** persons ages 65 and older were most affected. Persons ages 0-14 made the most TBI-related emergency department visits.**

*Source: ODH Vital Statistics. TBI was reported as a cause of death on the death certificate alone or in combination with other injuries or conditions.

** Source: Ohio Hospital Association. TBI alone or in combination with other injuries or conditions.





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TBI by Gender

Men were more likely to sustain a traumatic brain injury than women. This difference was greatest among those who died. Men accounted for 71 percent (28.8 per 100,000) of deaths where TBI was reported as a cause of death on the death certificate alone or in combination with other injuries or conditions; 62 percent (73.1 per 100,000) of hospitalizations for TBI alone or in combination with other injuries or conditions; and 50% (1,017.2 per 100,000) of emergency department visits for TBI alone or in combination with other injuries or conditions.



TBI Prevention Strategies

CDC's National Center for Injury Prevention and Control (Injury Center) is committed to protecting people against preventable TBI by putting science into action.

- **State Injury Prevention Programs** – The Injury Center's Core Violence and Injury Prevention Program (Core VIPP) funds state health departments to estimate the impact of TBIs and define the groups most affected. www.cdc.gov/injury
- **Heads Up** – Injury Center campaigns with free tools for health care providers, school administrators, nurses, teachers, coaches, and parents to help them recognize and respond to a TBI. www.cdc.gov/traumaticbraininjury
- **Motor Vehicle Safety** – Motor vehicle crashes are a leading cause of death, injury and TBI in the U.S. CDC's primary prevention focuses on child passenger safety, seat belt use and reducing impaired driving. www.thecommunityguide.org/mvoi or www.cdc.gov/motorvehiclesafety

OHIO TBI Activities

Prevention

- The Violence and Injury Prevention Program (VIPP) funds [local projects](#) focused on TBI prevention among youth.
- The VIPP coordinates a statewide low income child safety seat distribution program ([Ohio Buckles Buckeyes](#)) in all 88 Ohio counties and funds a network of regional youth occupant protection coordinators who provide technical assistance and training to the counties.
- The Ohio Injury Prevention Partnership developed the [Ohio Youth Bicycle Helmet Ordinance Toolkit](#).
- For Ohio's Return-to-Play law, ODH created a [website](#) with information and resources about the law, including a required concussion information sheet for participants in interscholastic activities and youth sports.

Surveillance

The VIPP conducts [statewide TBI surveillance](#) through death certificate, inpatient hospitalization and emergency department data.

Partnerships

The VIPP coordinates the Ohio Injury Prevention Partnership's (OIPP) Child Injury Action Group (CIAG). The OIPP/CIAG is a multi-disciplinary statewide coalition of organizations concerned with the prevention of injury to Ohio children and youth. For more information or to join, visit <http://www.healthy.ohio.gov/vipp/ciag/ciag.aspx>

Notes: Data are provided by the Ohio Department of Health, Office of Vital Statistics (death data) and the Ohio Hospital Association (hospital and ED data). All injuries are considered unintentional unless specified otherwise. Reference to any commercial entity or product or service on this page should not be construed as an endorsement by the Government of the company or its products or services.