FLORIDA INJURY FACTS:
TRAUMATIC BRAIN INJURIES

AT A GLANCE:

- A traumatic brain injury (TBI) is caused by a blow or jolt to the head or a penetrating head injury that disrupts the normal function of the brain. The severity of traumatic brain injuries can range from mild to severe.¹
- In 2009, traumatic brain injuries were related to 3,680 deaths. In addition, there were another 17,731 hospitalizations for non-fatal traumatic brain injuries.

ECONOMIC IMPACT:

In 2009:

- The median admission charge for non-fatal traumatic brain injury hospitalizations was $33,651; total charges exceeded $1 billion. The median length of stay was three days.
- Medicare was the payer source for 37% of the admissions; Commercial Insurance, 34%.

Produced By:
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(850) 245-4440 x2729 http://www.doh.state.fl.us/injury (January, 2011)
WHO IS INJURED?

In 2009:
- Residents ages 55 years and older had the highest rates of fatal TBIs followed by 15-24 year olds.
- Residents under the age of 1, ages 15-24, and 65 years and older had the highest hospitalization rates for non-fatal traumatic brain injuries.
- Males of nearly every age group had higher rates of fatal traumatic brain injuries and non-fatal hospitalizations than their female counterparts.

Males accounted for 73% of TBI deaths, and 60% of non-fatal hospitalizations. Females accounted for only 27% of deaths, and 40% of hospitalizations.

Whites accounted for 84% of TBI deaths and non-fatal hospitalizations combined, Blacks accounted for 11%, and Other Non-Whites accounted for 4%.

### Fatal Traumatic Brain Injuries and Non-Fatal Hospitalizations, by Sex and Race, Florida Residents, 2009

<table>
<thead>
<tr>
<th></th>
<th>Female</th>
<th>Male</th>
<th>White</th>
<th>Black</th>
<th>Other Non-White</th>
<th>Both Sexes, All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deaths</td>
<td>992</td>
<td>2,688</td>
<td>3,217</td>
<td>387</td>
<td>74</td>
<td>3,680</td>
</tr>
<tr>
<td>Non-Fatal Hospitalizations</td>
<td>7,059</td>
<td>10,672</td>
<td>14,771</td>
<td>1,951</td>
<td>773</td>
<td>17,731</td>
</tr>
</tbody>
</table>
In 2009:
- Non-Hispanic residents had higher rates of fatal traumatic brain injuries and non-fatal hospitalizations than Hispanic residents.
- White residents had the highest rate of fatal traumatic brain injuries while Other Non-White residents had the highest rate of hospitalization for non-fatal traumatic brain injuries. Black residents had the lowest fatality and hospitalization rates.

**TRAUMATIC BRAIN INJURY CAUSES:**
In 2009:
- Firearms were the leading mechanism, or cause, of fatal traumatic brain injuries.
- Falls were the leading cause of non-fatal TBI hospitalizations and the second leading cause of fatal traumatic brain injuries.
TRAUMATIC BRAIN INJURY TYPES:

In 2009:
- 42% of TBI deaths involved an open head wound and 28% involved an intracranial injury.
- 47% of hospitalizations for non-fatal traumatic brain injuries involved an intracranial injury other than a concussion, 22% involved a concussion.

### Fatal Traumatic Brain Injuries, by Type, Florida Resident, 2009

- Intracranial Injury (Incl. Concussion): 28%
- Open Head Wound: 42%
- Oth and Unspecified Head Injury: 48%
- Fracture - Skull and Facial Bones: 6%
- Secondary Consequence (Sequalae) of Head Injury: 1%
- Crushing Head Injury: 0.2%

### Non-Fatal Traumatic Brain Injury Hospitalizations, by Type, Florida Residents, 2009

- Intracranial Injury: 47%
- Concussion: 22%
- Skull Fracture - Vault or Base: 21%
- Unspecified Head Injury: 9%
- Fracture - Oth and Unqualified or Multiple: 3%
- Shaken Infant Syndrome: 0.1%

### INFORMATION AND PREVENTION RESOURCES:

1. The Centers For Disease Control and Prevention, National Center for Injury Prevention and Control [http://www.cdc.gov/ncipc/tbi/TBI.htm](http://www.cdc.gov/ncipc/tbi/TBI.htm)

### DATA SOURCES AND CASE DEFINITIONS:

TBI Deaths: Florida Department of Health, Office of Vital Statistics, Death Certificates; Immediate and/or Contributing Cause of Deaths ICD-10 S01, S02.0, S02.1, S02.3, S02.7-S02.9, S04.0, S06, S07, S09.7-S09.9, T01.0, T02.0, T04.0, T06.0, T90.1, T90.2, T90.4, T90.5, T90.8, T90.9

Non-Fatal TBI Hospitalizations: Agency for Health Care Administration, Hospital Discharge Data; Records with Injury Principal Diagnosis and TBI Diagnosis ICD-9 CM 800-801, 803-804, 850, 851-854.19, 950.1-950.3, 959.01, 995.55
COUNTY BY COUNTY COMPARISON: RURAL* COUNTIES
Traumatic Brain Injury Deaths and Non-Fatal Hospitalizations,
Florida Residents of Rural Counties, 2009

*Rural – an area with a population density of less than 100 individuals per square mile or an area defined by the most recent United States Census as rural.