Unintentional injuries and violence are the leading causes of death, hospitalization, and disability for children ages 1-18. This fact sheet provides a state snapshot of data on the injury-related Maternal and Child Health Block Grant National Performance Measures and Health Status Indicators, with a special focus on disparities based on race, gender, and rural/urban residence. The fact sheet is intended to be a helpful and easy-to-use tool for needs assessments, planning, program development, and presentations.

The Children’s Safety Network (CSN) National Injury and Violence Prevention Resource Center, funded by the Maternal and Child Health (MCH) Bureau, works with states to utilize a science-based, public health approach for injury and violence prevention (IVP). CSN is available to provide information and technical assistance on injury surveillance and data; needs assessments; best practices; and the design, implementation, and evaluation of programs to prevent child and adolescent injuries.

Major Causes of Injury Death
### Table 2. Leading Causes and Total 5-Year Incidence of Injury Deaths by Age Group, Tennessee, 2006-2010

<table>
<thead>
<tr>
<th>Rank</th>
<th>&lt;1</th>
<th>1-4</th>
<th>5-9</th>
<th>10-14</th>
<th>15-19</th>
<th>20-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Suffocation 180</td>
<td>MV Traffic 49</td>
<td>Homicide 49</td>
<td>MV Traffic 50</td>
<td>MV Traffic 83</td>
<td>MV Traffic 83</td>
</tr>
<tr>
<td>2</td>
<td>Homicide 41</td>
<td>Drowning 48</td>
<td>Fire/Burn 15</td>
<td>Suicide 23</td>
<td>Suicide 23</td>
<td>Homicide 369</td>
</tr>
<tr>
<td>3</td>
<td>MV Traffic 16</td>
<td>Fire/Burn 25</td>
<td>Drowning 12</td>
<td>Homicide 19</td>
<td>Homicide 19</td>
<td>Suicide 333</td>
</tr>
<tr>
<td>4</td>
<td>Undetermined Suffocation 10</td>
<td>Suffocation 15</td>
<td>Homicide ****</td>
<td>Drowning ****</td>
<td>Other land transport ****</td>
<td>Drowning ****</td>
</tr>
<tr>
<td>5</td>
<td>Fall ****</td>
<td>Pedestrian, other 13</td>
<td>Suffocation ****</td>
<td>*Three Tied ****</td>
<td>Other land transport ****</td>
<td>Undetermined Poisoning 45</td>
</tr>
</tbody>
</table>

Note. All mechanisms of suicide and homicide were combined according to intent. Each listed mechanism is unintentional except those otherwise noted. **** = indicates that the cell values range from 1-9 and are suppressed for data confidentiality purposes. *For ages 10-14, three mechanisms were tied for the fifth ranking including Fire/Burn, Firearm, and Poisoning. Each of these mechanisms had fewer than 10 deaths.

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### Major Causes of Hospital-Admitted Injuries

### Table 3: Leading Causes and Annual Incidence of Hospital-Admitted Injuries by Age Group, Tennessee Residents, 2010

<table>
<thead>
<tr>
<th>Rank</th>
<th>&lt;1</th>
<th>1-4</th>
<th>5-9</th>
<th>10-14</th>
<th>15-19</th>
<th>20-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Other Specified, NEC 62</td>
<td>Fall 98</td>
<td>Fall 90</td>
<td>Fall 127</td>
<td>MV Traffic 476</td>
<td>MV Traffic 581</td>
</tr>
<tr>
<td>2</td>
<td>Assault 55</td>
<td>Poisoning 83</td>
<td>MV Traffic 67</td>
<td>MV Traffic 95</td>
<td>Self-Inflicted 270</td>
<td>Self-Inflicted 324</td>
</tr>
<tr>
<td>3</td>
<td>Fall 48</td>
<td>Fire/Burn 57</td>
<td>Struck By/Against 35</td>
<td>Self-Inflicted 65</td>
<td>Fall 155</td>
<td>Assault 221</td>
</tr>
<tr>
<td>4</td>
<td>Suffocation 16</td>
<td>Other Specified, NEC 55</td>
<td>Other Specified, NEC 31</td>
<td>Struck By/Against 58</td>
<td>Assault 122</td>
<td>Fall 190</td>
</tr>
<tr>
<td>5</td>
<td>Other Natural/Environmental 14</td>
<td>MV Traffic 45</td>
<td>Transport, other 30</td>
<td>Transport, other 56</td>
<td>Unspecified 96</td>
<td>Poisoning 108</td>
</tr>
</tbody>
</table>

Note: MV = Motor Vehicle. NEC = Not Elsewhere Classifiable. Source: Children’s Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at the Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, January 2013.

Incidence based on 2010 data obtained from the Tennessee Hospital Association. State Inpatient Data (SID) from the Healthcare Cost and Utilization Project (HCUP) developed by the Agency for Healthcare Research and Quality (AHRQ). These injuries exclude patients who were dead at the time of discharge, readmission cases, transfers (e.g., from another short or long-term care facility, different acute care hospital), medical misadventures, and/or who suffered non-acute injuries. All counts were based on the patients' state of residence.
National Performance Measures

The Federal Maternal and Child Health Bureau Block Grant program requires State MCH programs to report on 18 National Performance Measures (NPM), two of which directly address injuries. NPM #10 addresses the rate of deaths to children aged 14 years and younger caused by motor vehicle crashes per 100,000 children. NPM #16 addresses the rate (per 100,000) of suicide deaths among youths aged 15 through 19.

NPM 10: Reducing Unintentional Motor Vehicle Deaths to Children Ages 0-14

Motor vehicle-related deaths remain a major cause of death for children 14 and under. Figure 1 shows the change in the rate of state motor vehicle-related deaths compared to the US rate from 2006-2010. Overall, the rate of death per 100,000 population declined steadily across the US during this period.

Figure 2 provides a breakout of the fatalities by type distinguishing motor vehicle occupant deaths (of any vehicle type) from pedestrian and pedal cyclist fatalities. This information allows states to understand which types are responsible for most of the fatalities.

Figure 3 breaks out the fatalities by race and age group. There are considerable differences between races suggesting variations in social norms, safety practices, and the presence of risk factors, including child restraint system (CRS) or safety belt usage, alcohol involved crashes, and the use of helmets. Many factors may affect this variation. Figure 4 provides a breakdown of fatalities by gender and, although there is little variability between males and females for the 10-14 age group, there is an increasing difference in the 15-24 age group. Figure 4 suggests that the female rate decreased for 20-24 year olds compared with the 15-19 year olds while male fatalities increased for 20-24 year olds.
50% of children ages 0 through 14 involved in a motor vehicle fatality were occupants of the vehicle.
One way of understanding disparities is to look at the rate of injuries by place of occurrence. To show this, CSN has provided the rates for the 0–14, 15-19 and 20-24 age groups using the urban-rural classification system developed by the National Center for Health Statistics (NCHS). To show how injury rates vary by level of urbanization, a table based on the classification system can be found here and defines six levels of urbanization: large central metro, large fringe metro, medium metro, small metro, micropolitan, and noncore. Figure 5 shows how the rate varies by age group by place of occurrence/urban-rural setting. This information allows the state to better understand any disparity that may occur between the different settings. Data are provided only for those areas in which 20 or more deaths occurred.

Many of these motor vehicle related deaths can be prevented through the implementation of a broad range of evidence-informed interventions and programs. These data are intended to provide a broad overview of the magnitude of the problem and to highlight possible disparities which may exist by race, gender, and urbanicity.

**NPM 16: Reducing Suicide Deaths Among Teens Ages 15-19**

Suicide is the 4th leading cause of death and the 3rd leading cause of injury-related death among US youth 10-24 years of age. According to the 2011 Youth Risk Behavior Surveillance Survey (YRBSS), 15.8% of students seriously considered attempting suicide and 7.8% of students attempted suicide one or more times in the 12 months prior to the survey. Although progress has been made over the past decade in reducing the rate of completed suicides nationally, this reduction has leveled off in the last few years. The following figures provide state-specific data related to suicide. Figure 6 shows the state rate from 2006-2010 for 15-19 year olds in comparison to the US rate for the same age group and time period. Figure 7 provides information on the means used by the 15-19 year olds for completed suicides. It is important to note that the actual number of suicides is often quite small thus resulting in considerable variation when looking at year to year rates.
53% of youth ages 15 through 19 completed suicide by using a firearm.
The YRBSS provides information about behaviors that contribute to unintentional and intentional violence among youth. Figures 8 and 9 provide information on the percentage of high school students with suicide ideation and the percentage who reported being medically treated for a suicide attempt from 2003-2011, respectively. This information and other information available in the YRBSS can help states understand how behaviors are changing within this age group.

Figure 10 shows how the rate differs by race for 15-19 and 20-24 year olds from 2006-2010. Figure 11 shows the difference by gender for the same age group and time period with the male rate for both age groups exceeding the female rate. Figure 12 looks at the variation in rate by urbanicity for 15-24 year olds with the rate increasing as rurality increases (see definition of urbanicity in Motor Vehicle section). This information provides a better understanding of the magnitude of the problem in different parts of the state, helping the state to identify environmental risk factors and facilitate decision making on where to target its suicide prevention efforts.
**IVP Health Status Indicators**

The Maternal and Child Health Bureau requires every state to report on 12 Health Status Indicators. Six of the indicators are related to IVP. The two figures below reflect the data reported for the IVP Health Status Indicators by the state in their Maternal and Child Health Block Grant Application Form 17, 2012.

![Figure 13: Nonfatal Injury Health Status Indicators, Tennessee, 2007-2010](image1)

![Figure 14: Fatal Injury Health Status Indicators, Tennessee, 2007-2010](image2)

**State Specific Performance Measures and Priority Needs**

Each state develops up to 7 – 10 State Performance Measures and priority needs. The following provides information about the states’ selected 2013 injury-related performance measures and priority needs.

Tennessee has the following injury-related State Performance Measure:

- Reduce unintentional injury death in children and young people ages 0-24.

Tennessee has the following injury-related Priority Need:

- Reduce unintentional injury deaths in children and young people ages 0-24.

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**State Fact Sheets Figure & Table Source Data**

Table 1 Source: **WISQARS Leading Causes of Death Reports, 2006-2010**

Table 2 Source: National Center for Health Statistics, Multiple Cause of Death Data, 2006-2010

Table 3 Source: Children's Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calvertod, MD, January 2013.

Table 4 Source: Children's Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calvertod, MD, January 2013.

Figure 1 Source: **WISQARS Fatal Injury Reports, 2006-2010 and WISQARS Injury Mortality Reports, 2003-2007**
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In this fact sheet CSN provides a cursory review of the injury morbidity and mortality data available for the state. The figures and tables in this fact sheet can help you understand the state’s progress in addressing motor vehicle traffic injuries and suicide. To target and address these and other injury issues, it is critical to understand this data. CSN can assist you in conducting detailed data analyses, utilizing surveillance systems, and undertaking needs assessments. For assistance, contact the Children’s Safety Network at csninfo@edc.org.

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CSN’s website: http://www.ChildrensSafetyNetwork.org
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Register for the CSN newsletter: http://go.edc.org/csn-newsletter
Need TA? Have Questions? E-mail: csninfo@edc.org

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