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**

Understanding injury rankings among other causes of death is important in determining their physical and economic role in each state. Knowing what types of injuries cause the majority of deaths and hospitalizations can inform program planning and development efforts. Table 1 shows the top 5 causes of death by age group in the state. Unintentional and intentional injury deaths are highlighted. Table 2 shows the top 5 causes of injury death by age group in the state. Intentional injury deaths are highlighted.

<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>2</td>
<td>Short Gestation 609</td>
<td>Congenital Anomalies 67</td>
<td>Malignant Neoplasms 67</td>
<td>Malignant Neoplasms 50</td>
<td>Suicide 184</td>
<td>Homicide 316</td>
</tr>
<tr>
<td>3</td>
<td>SIDS 233</td>
<td>Homicide 64</td>
<td>Congenital Anomalies 27</td>
<td>Suicide 36</td>
<td>Homicide 179</td>
<td>Suicide 289</td>
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<tr>
<td>4</td>
<td>Unintentional Injury 226</td>
<td>Malignant Neoplasms 37</td>
<td>Homicide 19</td>
<td>Homicide 32</td>
<td>Malignant Neoplasms 80</td>
<td>Malignant Neoplasms 100</td>
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<tr>
<td>5</td>
<td>Maternal Pregnancy Comp. 176</td>
<td>Heart Disease 19</td>
<td>Heart Disease 10</td>
<td>Heart Disease 17</td>
<td>Heart Disease 59</td>
<td>Heart Disease 99</td>
</tr>
</tbody>
</table>

Note. **** indicates that the cell values range from 1-9 and are suppressed for data confidentiality purposes.

Table 1 Source: WISQARS Leading Causes of Death Reports, 2004-2008.
Childhood injury is also a leading cause of morbidity. Table 3 provides information from the state's hospital discharge data on the leading causes and incidence of hospital admissions by age group.

### Table 2. Leading Causes and Total 5-Year Incidence of Injury Deaths by Age Group, Indiana, 2004-2008

<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 199</td>
<td>Homicide 64</td>
<td>MV Traffic 72</td>
<td>MV Traffic 83</td>
<td>MV Traffic 554</td>
<td>MV Traffic 568</td>
</tr>
<tr>
<td>2</td>
<td>Homicide 41</td>
<td>MV Traffic 58</td>
<td>Fire/Burn 21</td>
<td>Suicide 36</td>
<td>Suicide 184</td>
<td>Homicide 316</td>
</tr>
<tr>
<td>3</td>
<td>MV Traffic 13</td>
<td>Drowning 54</td>
<td>Homicide 19</td>
<td>Homicide 32</td>
<td>Homicide 179</td>
<td>Suicide 289</td>
</tr>
<tr>
<td>4</td>
<td>Fire/Burn ****</td>
<td>Fire/Burn 41</td>
<td>Drowning 16</td>
<td>Drowning 15</td>
<td>Fire/Burn 15</td>
<td>Poisoning 95</td>
</tr>
<tr>
<td>5</td>
<td>Drowning ****</td>
<td>Suffocation 25</td>
<td>Suffocation ****</td>
<td>Other land transport 14</td>
<td>Undetermined Poisoning 37</td>
<td>Undetermined Poisoning 89</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 1-10 and are suppressed for data confidentiality purposes.

### Table 3. Leading Causes and Annual Incidence of Hospital-Admitted Injuries by Age Group, Indiana Residents, 2009

<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>Unintentional Other Specified, NEC 166</td>
<td>Unintentional Fall 97</td>
<td>Unintentional Fall 111</td>
<td>Unspecified 156</td>
<td>Self-Inflicted 449</td>
<td>Self-Inflicted 426</td>
</tr>
<tr>
<td>2</td>
<td>Unspecified 61</td>
<td>Unspecified 89</td>
<td>Unspecified 74</td>
<td>Unintentional Fall 113</td>
<td>Unspecified 373</td>
<td>Unspecified 385</td>
</tr>
<tr>
<td>3</td>
<td>Unintentional Fall 41</td>
<td>Unintentional Fire/Burn 62</td>
<td>Unintentional MVT 57</td>
<td>Self-Inflicted 98</td>
<td>Unintentional MVT 311</td>
<td>Unintentional MVT 345</td>
</tr>
<tr>
<td>4</td>
<td>Assault 25</td>
<td>Unintentional Other Specified, NEC 57</td>
<td>Unintentional Other Specified, NEC 30</td>
<td>Unintentional MVT 57</td>
<td>Unintentional Fall 128</td>
<td>Assault 139</td>
</tr>
<tr>
<td>5</td>
<td>Unintentional Suffocation 20</td>
<td>Unintentional Poisoning 56</td>
<td>Unintentional Pedestrian, Other 24</td>
<td>Unintentional Other Specified, NEC 49</td>
<td>Assault 95</td>
<td>Unintentional Fall 138</td>
</tr>
</tbody>
</table>

Note: MVT = Motor Vehicle Traffic. NEC = Not Elsewhere Classifiable. Source: Children's Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, January 2012. Incidence based on 2009 data from the state and obtained from the Indiana State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). 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 of suicide deaths among youths aged 15-19.

The following figures provide information related to NPMs #10 and #16.

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

Figure 1 Source: WISQARS Fatal Injury Reports, 2004-2008 and WISQARS Injury Mortality Reports, 2003-2007
33% of children ages 0-14 involved in a motor vehicle fatality were occupants.

Note: Unspecified/Other primarily includes cases where a child fatality was coded as an unspecified motor-vehicle accident or a collision between specified motor vehicles, among others. In addition, motorcyclist fatalities were collapsed into this category because incidence were fewer than 10 and data were from years 2004-2008.

Figure 2 Source: WISQARS Fatal Injury Reports, 2004-2008 and WISQARS Injury Mortality Reports, 2003-2007

Figure 3 Source: WISQARS Injury Mortality Reports, 2003-2007
In the state of Indiana from 2004 to 2008, the rate of motor vehicle crash involved fatalities for males age 15-19 was 76 percent higher than for females age 15-19.

Figure 4 Source: WISQARS Fatal Injury Reports, 2004-2008 and WISQARS Injury Mortality Reports, 2003-2007

Data are only reported for urban areas that exist within the state. In addition, data for some age groups and areas are not reported due to few or no deaths.

Figure 5 Source: CDC WONDER Multiple Cause of Death data, 2003-2007 and Urban-Rural Definition Classification System

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

Figure 6 Source: WISQARS Fatal Injury Reports, 2004-2008 and WISQARS Injury Mortality Reports, 2003-2007
48% of youth ages 15-19 completed suicide by using a firearm.

Note: Unspecified/Other includes all self-inflicted fatal injuries in which the mechanism was not identified or the coded mechanism was other than those named in the pie chart. Self-Inflicted Poisonings that were fewer than 10 and from years 2004-2008 were collapsed into this category.

Figures 8 & 9 Source: Youth Online: High School Youth Risk Behavior Survey (YRBS), 2003-2009
Figure 10: The Rate (per 100,000) of Completed Suicides By Race among Youths Aged 15-24, Indiana, 2003-2007

Note: Rates based on two or fewer deaths were excluded.

Figure 11 Source: WISQARS Injury Mortality Reports, 2003-2007

In the state of Indiana from 2004 to 2008, the rate of suicide deaths for males age 15-19 is 3.5 times higher than for females age 15-19.

Figure 11 Source: WISQARS Fatal Injury Reports, 2004-2008 and WISQARS Injury Mortality Reports, 2003-2007

Figure 12: The Rate (per 100,000) of Completed Suicides by Urbanicity Among Youths Aged 15-24, Indiana, 2003-2007

Data are only reported for urban areas that exist within the state. In addition, data for some age groups and areas are not reported due to few or no deaths.

Figure 12 Source: CDC WONDER Multiple Cause of Death data, 2003-2007 and Urban-Rural Definition Classification System
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, 2011.

Figures 13 & 14 Source: HRSA, Title V Information System Multi-Year Report
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 2012 injury-related performance measures and priority needs.

State Performance Measures:
Indiana has the following injury-related State Performance Measures:
• To reduce the rate of suffocation deaths of infants.
• To reduce the percentage of children less than 72 months of age with blood lead levels (BLL) equal to or greater than 10 micrograms per deciliter.

Priority Needs:
Indiana has the following injury-related priority needs:
• Decrease the rate of suffocation deaths of infants.
• Decrease the percentage of children less than 72 months of age with blood lead levels greater or equal to 10 micrograms per deciliter.

This fact sheet presents 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 is funded by the Health Resources and Services Administration’s Maternal and Child Health Bureau (U.S. Department of Health and Human Services). A project of the Education Development Center, Inc.

January 2012