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>
<thead>
<tr>
<th>Age Groups</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>Rank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>21</td>
<td>Unintentional Injury</td>
<td>Unintentional Injury</td>
<td>Unintentional Injury</td>
<td>Unintentional Injury</td>
<td>Unintentional Injury</td>
</tr>
<tr>
<td>2</td>
<td>17</td>
<td>Unintentional Injury</td>
<td>Congenital Anomalies</td>
<td>Influenza &amp; Pneumonia</td>
<td>Malignant Neoplasms</td>
<td>Suicide</td>
</tr>
<tr>
<td>3</td>
<td>Maternal Pregnancy Comp.</td>
<td>Placenta Cord Membranes</td>
<td>Homicide</td>
<td>Five Tied</td>
<td>Congenital Anomalies</td>
<td>Malignant Neoplasms</td>
</tr>
<tr>
<td>4</td>
<td>Short Gestation</td>
<td>Malignant Neoplasms</td>
<td>Five Tied</td>
<td>Homicide</td>
<td>Homicide</td>
<td>Congenital Anomalies</td>
</tr>
<tr>
<td>5</td>
<td>Respiratory Distress</td>
<td>Three Tied</td>
<td>Five Tied</td>
<td>Suicide</td>
<td>Congenital Anomalies</td>
<td>Heart Disease</td>
</tr>
</tbody>
</table>

Note. **** = indicates that the cell values range from 1-9 and are suppressed for data confidentiality purposes. For ages 1-4, three mechanisms were tied for the fifth through seventh ranking including Benign Neoplasms, Cerebro-vascular, and Influenza & Pneumonia. For ages 5-9, five mechanisms were tied for the third through seventh ranking including Cerebro-vascular, Congenital Anomalies, Diabetes Mellitus, Heart Disease, and Homicide. Each of these mechanisms had fewer than 10 deaths.
Table 2: Leading Causes and Total 5-Year Incidence of Injury Deaths by Age Group, Vermont, 2008-2012

<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></td>
<td>Suffocation 13</td>
<td>Homicide ****</td>
<td>MVT ****</td>
<td>MVT ****</td>
<td>MVT ****</td>
</tr>
<tr>
<td>2</td>
<td>Homicide ****</td>
<td>MVT ****</td>
<td>Drowning ****</td>
<td>Four Tied ****</td>
<td>Fire/Burn ****</td>
<td>Suicide 19</td>
</tr>
<tr>
<td>3</td>
<td>Other land transport ****</td>
<td>Suffocation ****</td>
<td>Five Tied ****</td>
<td>Poisoning 10</td>
<td>Poisoning 18</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>Other land transport ****</td>
<td>Homicide ****</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>Homicide ****</td>
<td>Other transport ****</td>
<td></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 5-9, four mechanisms were tied for the second ranking including Drowning, Machinery, Other land transport, and Homicide. **For ages 10-14, five mechanisms were tied for the third ranking including Drowning, Machinery, Suicide, Homicide, and Undetermined Suffocation. Each of these mechanisms had fewer than 10 deaths.
**Major Causes of Hospital-Admitted Injuries**

These results are preliminary

**Table 3: Leading Causes and Annual Incidence of Hospital-Admitted Injuries by Age Group, Vermont Residents, 2011**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Age Groups</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>&lt;1</td>
<td>Other Specified, NEC *</td>
<td>Fall *</td>
<td>Fall *</td>
<td>Self-Inflicted 28</td>
<td>Self-Inflicted 47</td>
</tr>
<tr>
<td></td>
<td>1 - 4</td>
<td>Fall *</td>
<td>Fall *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5 - 9</td>
<td>Three Tied†</td>
<td>Pedal Cyclist, Other *</td>
<td>Unspecified *</td>
<td>MVT *</td>
<td>MVT 14</td>
</tr>
<tr>
<td>3</td>
<td>10 - 14</td>
<td>Three Tied†</td>
<td>Struck By/Against *</td>
<td>Self-Inflicted *</td>
<td>Fall 11</td>
<td>MVT 19</td>
</tr>
<tr>
<td>4</td>
<td>15-19</td>
<td>Machinery *</td>
<td>Transport, Other *</td>
<td>Transport, Other *</td>
<td>Other Specified, NEC 13</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>20-24</td>
<td>Pedal Cyclist, Other *</td>
<td>Struck By/Against *</td>
<td>Poisoning 12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note:* MVT = Motor Vehicle Traffic. NEC = Not Elsewhere Classifiable. Each listed mechanism is unintentional except those otherwise noted. * = indicates that the cell value ranges from 1 - 10 and is suppressed for data confidentiality purposes. †For ages 1-4, three mechanisms were tied for the second ranking including Unintentional Bites & Stings, Poisoning, and Struck By/Against. ††For ages 5-9, three mechanisms were tied for the third ranking including Unintentional Cut/Pierce, Struck By/Against, and Undetermined. Source: Children’s Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, January 2014. Incidence based on 2011 data from the state and obtained from the Vermont State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP), Agency for Healthcare Research and Quality (AHRQ), and the Vermont Association of Hospitals and Health Systems (Montpelier, VT). 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.
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 2003-2007. 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.

Figure 2: Percentage Distribution of Motor Vehicle Traffic Fatalities by Type among Children Aged 0 through 14, Vermont, 2003-2007

38%
of children ages 0 through 14 involved in a motor vehicle fatality were occupants.
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.
Suicide Deaths for Youths 15-19 Years of Age

Figure 6: Suicide Death Rate among Youths Aged 15 through 19, Vermont and U.S., 2003-2007

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 (YRBS), 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 2003-2007 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.

Figure 7: Percentage Distribution of Completed Suicides by Means among Youths Aged 15 through 19, Vermont, 2003-2007

53%
of youth aged 15 through 19 completed suicide by using a firearm.
The Data for Figure 8: Percentage of High School-Aged Children with Suicide Ideation, Vermont and US, 2005-2013 is not available.

Figure 9: Percentage of High School-Aged Children Treated for Suicide Attempt, Vermont and US, 2005-2013

Figure 10: Completed Suicide Rate by Race among Youths Aged 15 through 24, Vermont, 2003-2007

Figure 11: Completed Suicide Rate by Gender among Youths Aged 15 through 24, Vermont, 2003-2007
The YRBS 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 2005-2013, respectively. This information and other information available in the YRBS 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 2003-2007. 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.
Poisoning is the 3rd leading cause of injury-related death among US youth ages 20-24 and the 5th leading cause of injury-related death among US youth ages 15-19. Drug overdose death rates among all ages in the US have more than tripled since 1990 and have never been higher. (1) Poisoning can be intentional or unintentional; poisoning cases reported here include prescription medications, illicit drugs and other, unspecified drugs. According to the national survey Monitoring the Future, in 2013 15 percent of high school seniors used a prescription drug non-medically in the past year. (2) Every day in the U.S., an average of 2,000 teenagers use prescription drugs for the first time without a doctor’s guidance. Youth who abuse prescription medications are also more likely to report use of other drugs. (3) Many teens falsely believe that because prescription medicines are prescribed by a physician, are inexpensive, and are widely available that they are safer than illicit drugs.

Figure 13 provides state-specific fatality rates for motor vehicle traffic, suicide, and drug poisoning for youth aged 15 through 24 for the period 2008-2012. Figure 14 provides data on the rate of unintentional and undetermined drug overdoses in the state compared to the national rate. Figure 15 shows the percentage distribution of fatal unintentional and undetermined drug poisoning by drug type for the period 2008-2012.

The Data for Figure 16: Fatal Unintentional and Undetermined Drug Poisoning Rate by Race among Youths Aged 15 through 24, Vermont, 2008-2012 is not available.

The Data for Figure 17: Fatal Unintentional and Undetermined Drug Poisonings Rate by Gender among Youths Aged 15 through 24, Vermont, 2008-2012 is not available.
Figure 16 describes the rates of unintentional and undetermined drug poisoning by race for 15-19 and 20-24 year olds from 2008-2012. Although patterns among ages 15-19 and 20-24 vary nationally and among the states, the highest rates of these drug poisoning fatalities most often occur among Whites and Native American. Figure 17 shows the difference by gender for the same age groups and time period and here the male rate for both age groups is usually higher; for ages 20-24 the male rate is generally more than twice the female rate. Figure 18 presents variation in rate of unintentional and undetermined drug poisoning by urbanicity for 15-24 year olds. Unlike suicide and motor vehicle crashes fatality rates, urbanicity alone does not present a consistent pattern in the rate of fatal unintentional and undetermined drug poisonings. Risks associated with gender and race appear to be the target for prevention efforts related to unintentional and undetermined drug poisoning among youths age 15-25 years.

### 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 on TVIS for the current application year.

![Figure 19: Nonfatal Injury Health Status Indicators, Vermont, 2009-2013](image-url)

![Figure 20: Fatal Injury Health Status Indicators, Vermont, 2009-2013](image-url)
State Specific Performance Measures and Priority Needs

Each state develops up to 10 State Performance Measures and Priority Needs. The following provides information about the states’ selected 2015 injury-related Performance Measures and Priority Needs.

Vermont has the following injury-related State Performance Measures:
- Increase the percent of youth who feel like they matter to people.
- Increase the percent of one year old children who are screened for blood lead poisoning.
- Increase the percent of youth grades 8-12 who report always wearing a bicycle helmet when riding a bicycle.
- Decrease the rate per 1,000 of substantiated cases of child abuse and neglect for the population of children ages 0-17 years.

Vermont has the following injury-related Priority Needs:
- Communities provide safety and support for families.
- Children live in stable and supported families.
Citations and Sources

Drug Poisoning Section, 2: Monitoring the Future (sponsored by National Institute on Drug Abuse at The National Institutes of Health) [www.monitoringthefuture.org/pubs/monographs/mtf-overview2013.pdf]

Table 1 Source: WISQARS Leading Causes of Death Reports, 2008-2012
Table 2 Source: National Center for Health Statistics, Multiple Cause of Death Data, 2008-2012
Table 3 Source: Children’s Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, January 2013.
Figure 1 Source: WISQARS Fatal Injury Reports, 2003-2007
Figure 2 Source: WISQARS Fatal Injury Reports, 2003-2007
Figure 3 Source: WISQARS Injury Mortality Reports, 2008-2012
Figure 4 Source: WISQARS Fatal Injury Reports, 2003-2007
Figure 5 Source: CDC WONDER Multiple Cause of Death data, 2008-2012 and Urban-Rural Definition Classification System


Figure 6 Source: WISQARS Fatal Injury Reports, 2003-2007
Figure 7 Source: WISQARS Fatal Injury Reports, 2003-2007
Figures 8 & 9 Source: Youth Online: High School Youth Risk Behavior Survey (YRBS), 2005-2013
Figure 10 Source: WISQARS Injury Mortality Reports, 2003-2007
Figure 11 Source: WISQARS Fatal Injury Reports, 2003-2007
Figure 12 Source: CDC WONDER Multiple Cause of Death data, 2008-2012 and Urban-Rural Definition Classification System

Figure 15 Source: National Center for Health Statistics, Multiple Cause-of-Death Data, 2008-2012.
Figure 16 Source: WISQARS Injury Mortality Reports, 2008-2012
Figure 17 Source: WISQARS Fatal Injury Reports, 2008-2012
Figure 18 Source: CDC WONDER Multiple Cause of Death data, 2008-2012 Urban-Rural Definition Classification System

Figures 19 & 20 Source: HRSA, Title V Information System Multi-Year Report. Some states may have changed their method of calculation.

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