

## Data Sources:

**Multiple Cause of Death (MCOD) Files, 2009-2013**, National Center for Health Statistics. The MCOD file is a census of all deaths in the U.S. and some territories. Five years data were combined to compute stable rates. Nevertheless, for some specific causes and in small states and territories, the cumulative number of deaths are less than ten and could not be reported. The counts presented in this fact sheet were generated from an analysis of the raw data files by the CSN Economics and Data Analysis Resource Center (EDARC).

**State Inpatient Databases (SID), 2012**, Healthcare Utilization Project, Agency for Healthcare Research and Quality (AHRQ). The AHRQ sponsors a Federal-State-Industry partnership, known as HCUP, which includes the largest collection of health care databases and associated software and products in the country, including the SID, from collaborating states. The SID is a census of hospital discharge data compiled from, currently, 46 states. The counts presented in this fact sheet were generated from an analysis of the raw data files by the CSN EDARC. Counts exclude patients dead at the time of discharge, chronic/overuse injuries, and/or injuries treated at hospitals that do not meet the American Hospital Association's (AHA) criteria of a short-term community hospital. To prevent double-counting, readmission cases, transfers, and medical misadventures were excluded. All counts based on the patients' state of residence. To find out more about the SID and HCUP, please visit <http://www.hcup-us.ahrq.gov/sidoverview.jsp>.

**Fatal Analysis Reporting System (FARS), 2009-2013**, National Highway Traffic Safety Administration. The FARS is a census of all motor vehicle-related crashes involving one or more fatalities. FARS provides data on all vehicles involved in fatal crashes, including driver information. Five years data were combined to compute stable rates. Like the MCOD, some states and the territories had fewer than 10 deaths and could not be reported. The counts presented in this data sheet were generated from an analysis of the raw data files by the CSN EDARC.

**Population statistics (Ages 0 - 24 years):** United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Bridged-Race Population Estimates, United States July 1st resident population by state. Retrieved from: <http://wonder.cdc.gov/bridged-race-v2013.html>.

*Note regarding small numbers of cases:* In compliance with the privacy standards recommended by the National Center for Health Statistics and in order to avoid inadvertent disclosure of individual cases, no figure, including totals, is less than 10 in tabulations for sub-national geographic areas, regardless of the number of years combined. Instead, the symbol "\*" is used to denote less than 10 cases.

*Suggested reference:* Children's Safety Network State Fact Sheets, Children's Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at the Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, April, 2016.

# Hospital-Admitted Injuries, Age 0-9, 2012 Minnesota

**Table 1a: Incidence and Rates (per 100,000) of Hospital-Admitted Injuries  
by Intent, Mechanism, and Age Group, 2012**

Intent/Mechanism							Ages 0 - 9	
	Age <1	Rate	Age 1-4	Rate	Age 5-9	Rate	Total	Rate
<b>Total Incidence</b>	<b>134</b>	<b>195.1</b>	<b>360</b>	<b>128.1</b>	<b>348</b>	<b>96.4</b>	<b>842</b>	<b>118.5</b>
<b>Unintentional</b>	<b>109</b>	<b>158.7</b>	<b>331</b>	<b>117.8</b>	<b>328</b>	<b>90.9</b>	<b>768</b>	<b>108.1</b>
Cut/Pierce	****	****	****	****	****	****	14	2.0
Drowning	****	****	****	****	****	****	13	1.8
Fall	37	53.9	107	38.1	161	44.6	305	42.9
Fire/Burn	****	****	36	12.8	****	****	48	6.8
<i>Fire/Flame</i>	0	0.0	****	****	****	****	****	****
<i>Hot Object/Substance</i>	****	****	31	11.0	****	****	42	5.9
Firearm	0	0.0	0	0.0	****	****	****	****
Machinery	0	0.0	****	****	0	0.0	****	****
Motor Vehicle Traffic	****	****	23	8.2	30	8.3	****	****
<i>Occupant</i>	****	****	11	3.9	19	5.3	****	****
<i>Motorcyclist</i>	0	0.0	****	****	0	0.0	****	****
<i>Pedal Cyclist</i>	0	0.0	****	****	****	****	****	****
<i>Pedestrian</i>	0	0.0	****	****	****	****	17	2.4
<i>Unspecified</i>	0	0.0	0	0.0	****	****	****	****
<i>Other</i>	0	0.0	0	0.0	0	0.0	0	0.0
Pedal Cyclist, Other	****	****	****	****	23	6.4	29	4.1
Pedestrian, Other	0	0.0	****	****	****	****	****	****
Transport, Other	0	0.0	****	****	19	5.3	****	****
Bites and Stings	****	****	24	8.5	16	4.4	****	****
Other Natural/Environmental	****	****	****	****	****	****	13	1.8
Overexertion	0	0.0	****	****	****	****	****	****
Poisoning	****	****	54	19.2	17	4.7	****	****
Struck By/Against	****	****	22	7.8	30	8.3	****	****
Suffocation	37	53.9	21	7.5	****	****	****	****
Other	****	****	****	****	****	****	19	2.7
<b>Self-Inflicted</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>
Cut/Pierce	0	0.0	0	0.0	0	0.0	0	0.0
Firearm	0	0.0	0	0.0	0	0.0	0	0.0
Poisoning	0	0.0	0	0.0	0	0.0	0	0.0
Suffocation	0	0.0	0	0.0	****	****	****	****
Other	0	0.0	0	0.0	0	0.0	0	0.0
<b>Assault</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>0</b>	<b>0.0</b>	<b>****</b>	<b>****</b>
Cut/Pierce	****	****	****	****	0	0.0	****	****
Firearm	0	0.0	0	0.0	0	0.0	0	0.0
Struck By/Against	0	0.0	0	0.0	0	0.0	0	0.0
Other	****	****	****	****	0	0.0	****	****
<b>Undetermined</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>
Poisoning	****	****	****	****	****	****	****	****
Other	****	****	0	0.0	0	0.0	****	****
<b>Legal/Military</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>
<b>Unspecified</b>	<b>20</b>	<b>29.1</b>	<b>24</b>	<b>8.5</b>	<b>17</b>	<b>4.7</b>	<b>61</b>	<b>8.6</b>

**Note:** \*\*\*\* = cell value ranges from 1-10. Row and column totals in bold reflect the actual totals for a given incidence category. Row and column totals not in bold include a value of "\*\*\*\*" and do not necessarily reflect the actual total for that row or column. Totals may not add due to rounding and/or cases with missing age data. Population counts from the U.S. Bureau of the Census.

**Data Source:** 2012 Minnesota State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP), Agency for Healthcare Research and Quality (AHRQ).

# Hospital-Admitted Injuries, Age 10-19, 2012 Minnesota

**Table 1b: Incidence and Rates (per 100,000) of Hospital-Admitted Injuries  
by Intent, Mechanism, and Age Group, 2012**

Intent/Mechanism	Age 10-14		Age 15-19		Ages 10-19	
	Age 10-14	Rate	Age 15-19	Rate	Total	Rate
<b>Total Incidence</b>	<b>590</b>	<b>167.0</b>	<b>1,569</b>	<b>433.1</b>	<b>2,159</b>	<b>301.7</b>
<b>Unintentional</b>	<b>381</b>	<b>107.9</b>	<b>740</b>	<b>204.3</b>	<b>1,121</b>	<b>156.7</b>
Cut/Pierce	****	****	21	5.8	****	****
Drowning	****	****	****	****	****	****
Fall	122	34.5	169	46.7	291	40.7
Fire/Burn	****	****	14	3.9	****	****
<i>Fire/Flame</i>	****	****	****	****	****	****
<i>Hot Object/Substance</i>	****	****	11	3.0	****	****
Firearm	****	****	****	****	12	1.7
Machinery	0	0.0	****	****	****	****
Motor Vehicle Traffic	39	11.0	169	46.7	208	29.1
<i>Occupant</i>	22	6.2	121	33.4	143	20.0
<i>Motorcyclist</i>	****	****	18	5.0	****	****
<i>Pedal Cyclist</i>	****	****	****	****	17	2.4
<i>Pedestrian</i>	****	****	16	4.4	****	****
<i>Unspecified</i>	0	0.0	****	****	****	****
<i>Other</i>	0	0.0	****	****	****	****
Pedal Cyclist, Other	23	6.5	21	5.8	44	6.1
Pedestrian, Other	****	****	****	****	****	****
Transport, Other	33	9.3	58	16.0	91	12.7
Bites and Stings	****	****	13	3.6	****	****
Other Natural/Environmental	****	****	****	****	15	2.1
Overexertion	11	3.1	18	5.0	29	4.1
Poisoning	18	5.1	98	27.1	116	16.2
Struck By/Against	77	21.8	96	26.5	173	24.2
Suffocation	****	****	****	****	12	1.7
Other	17	4.8	28	7.7	45	6.3
<b>Self-Inflicted</b>	<b>158</b>	<b>44.7</b>	<b>660</b>	<b>182.2</b>	<b>818</b>	<b>114.3</b>
Cut/Pierce	41	11.6	115	31.7	156	21.8
Firearm	0	0.0	****	****	****	****
Poisoning	95	26.9	496	136.9	591	82.6
Suffocation	****	****	13	3.6	****	****
Other	12	3.4	35	9.7	47	6.6
<b>Assault</b>	<b>13</b>	<b>3.7</b>	<b>66</b>	<b>18.2</b>	<b>79</b>	<b>11.0</b>
Cut/Pierce	****	****	12	3.3	****	****
Firearm	****	****	19	5.2	****	****
Struck By/Against	****	****	33	9.1	****	****
Other	****	****	****	****	****	****
<b>Undetermined</b>	<b>****</b>	<b>****</b>	<b>40</b>	<b>11.0</b>	<b>****</b>	<b>****</b>
Poisoning	****	****	40	11.0	****	****
Other	0	0.0	0	0.0	0	0.0
<b>Legal/Military</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>	<b>****</b>
<b>Unspecified</b>	<b>33</b>	<b>9.3</b>	<b>60</b>	<b>16.6</b>	<b>93</b>	<b>13.0</b>

**Note:** \*\*\*\* = cell value ranges from 1-10. Row and column totals in bold reflect the actual totals for a given incidence category. Row and column totals not in bold include a value of "\*\*\*\*" and do not necessarily reflect the actual total for that row or column. Totals may not add due to rounding and/or cases with missing age data. Population counts from the U.S. Bureau of the Census.

**Data Source:** 2012 Minnesota State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP), Agency for Healthcare Research and Quality (AHRQ).

# Leading Causes of Injury Deaths, Age 0-24, 2009-2013 Minnesota

Table 2: Leading Causes and Total 5-Year Incidence of Injury Deaths by Age Group, Minnesota, 2009-2013

Rank	Age Groups						
	<1	1 - 4	5 - 9	10 - 14		15 - 19	20 - 24
1	Suffocation 69	Suffocation 21	MVT 24	Suicide 42		MVT 186	Suicide 261
2	Homicide 16	Homicide 19	Drowning 13	MVT 33		Suicide 179	MVT 251
3	MVT 10	MVT 17	Homicide ****	Drowning ****		Poisoning 58	Poisoning 157
4	Undetermined Suffocation ****	Drowning 14	Other land transport ****	Other land transport ****	Homicide ****	Homicide 52	Homicide 95
5	Natural/ environmental ****	Fire/Burn ****	*Five Tied ****	Suffocation ****		Drowning 18	Drowning 27

**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 age <1, four mechanisms were tied for the third ranking including MVT, Other transport, Poisoning, and Other specific and classifiable. \*\*For age 1-4, three mechanisms were tied for the fourth ranking including Drowning, Pedestrian, other, and Other transport. ^For age 5-9, three mechanisms were tied for the fourth ranking including Other transport, Homicide, and Undetermined Suffocation. Each of these mechanisms had fewer than 10 deaths.

**Data Source:** Minnesota Multiple Cause of Death File (MCOF), 2009-2013, National Center for Health Statistics.

# Leading Causes of Hospital-Admitted Injuries, Age 0-24, 2012 Minnesota

**Table 3: Leading Causes and Annual Incidence of Hospital-Admitted  
Injuries by Age Group, Minnesota, 2012**

Age Groups												
Rank	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24	
1	Other spec & classifiable 54		Fall 107		Fall 161		Self-Inflicted 161		Self-Inflicted 678		Self-Inflicted 619	
2	Fall 37	Suffocation 37	Poisoning 54		MVT 30	Struck by/ against 30	Fall 122		MVT 169	Fall 169	MVT 265	
3	Unintentional Unspecified 24		Hot object/ substance 31		Pedal cyclist, other 23		Struck by/ against 77		Poisoning 98		Poisoning 200	
4	Unspecified 20		Other spec & classifiable 30		Other spec & classifiable 22		MVT 39		Struck by/ against 96		Fall 189	
5	Assault 14		Bites and stings 24	Unspecified 24		Transport, other 19		Unspecified 33	Transport, other 33		Assault 81	

**Note:** All mechanisms of assault and self-inflicted injury and were combined according to intent. Each listed mechanism is unintentional except those labeled "Unspecified" or otherwise noted. MVT = Motor Vehicle Traffic. NEC = Not Elsewhere Classifiable. Spec = Specified. Nat/Env = Natural/Environmental. \* = cell values that range from 1-10 were suppressed for data confidentiality purposes. †For ages < 1, six mechanisms were tied for the third ranking including Fall, Hot Object/Substance, Other Natural/Environmental, Suffocation, Other Spec & Classifiable, And Other Specified, NEC. ††For ages <5-9, four mechanisms were tied for the fourth ranking including Pedal Cyclist, Other; Other Natural/Env; Unintentional Unspecified; and Unspecified. †††For ages 5-9, four mechanisms were tied for the fifth ranking including Hot object/substance; Transport, Other; Other Spec & Classifiable; and Other Specified, NEC. Source: Children's Safety Network Economics and Data Analysis Resource Center (CSN EDARC), at Pacific Institute for Research and Evaluation (PIRE), Calverton, MD, April, 2015. Incidence based on 2012 Minnesota State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP), Agency for Healthcare Research and Quality (AHRQ). Counts exclude patients dead at the time of discharge, chronic/overuse injuries, and/or injuries treated at hospitals that do not meet the American Hospital Association's (AHA) criteria of a short-term community hospital. To prevent double-counting, readmission cases, transfers, and medical misadventures were excluded. All counts based on the patients' state of residence.

**Data Source:** Minnesota State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

# Child Passenger Injuries, Age 0-14 Minnesota

**Table 4a: Child Passenger Deaths and Hospitalizations**

	Deaths <sup>1</sup> (2009-2013)	Deaths <sup>1</sup> per 100,000	Hospital Admissions <sup>2</sup> (2012)	Hospital Admissions <sup>2</sup> per 100,000	Total Hospital Days	Median Hospital Days
Age 0-4	18	0.33	12	3.43	13	1
Age 5-9	16	0.29	19	5.26	73	2
Age 10-14	26	0.46	22	6.23	126	3
Total Age 0-14	60	0.36	53	4.98	212	3

**Table 4b: Restraint Use of Children Killed In Crashes<sup>1</sup>**

Not restrained, Age 0-4	5.6%
Not restrained, Age 5-9	31.3%
Not restrained, Age 10-14	34.6%
Not restrained, Age 0-14	25.0%

**Table 4c: Who Is Driving When a Child Passenger Is Killed<sup>1</sup>**

Driver reported by police as alcohol-involved	8.3%
Driver reported by police as drug-involved	1.7%
Driver of other vehicle in crash reported alcohol-involved	15.0%
Driver reported using a cellphone	4.2%

**Data Sources:** Population counts from the U.S. Bureau of the Census. <sup>1</sup> Fatal Analysis Reporting System, 2009-2013, National Highway Traffic Safety Administration. <sup>2</sup> State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

\* = Less than 10.

n/a = Not available.

# Teen Occupant Injuries, Age 15-19 Minnesota

**Table 5a: Teenage Motor Vehicle Occupant Deaths and Hospitalizations**

	Deaths <sup>1</sup> (2009-2013)	Deaths <sup>1</sup> per 100,000	Hospital Admissions <sup>2</sup> (2012)	Hospital Admissions <sup>2</sup> per 100,000	Total Hospital Days	Median Hospital Days
Total Occupants	162	2.70	139	38.37	577	2
Vehicle	158	2.63	121	33.40	502	2
Motorcycle	*	*	18	4.97	75	2.5

**Table 5b: Restraint and Helmet Use of Teen Occupants Killed in Crashes<sup>1</sup>**

Vehicle occupants not restrained	46.3%
Motorcycle riders not wearing a helmet, or wearing non-DOT-compliant helmet	50.0%

**Table 5c: Alcohol Involvement in Crashes Where a Teen Occupant is Killed<sup>1</sup>**

Any driver reported by police as alcohol-involved	25.9%
Teen driver of teen killed reported by police as alcohol-involved	8.6%

**Table 5d: Driver Cell Phone Use in Crashes Where a Teen Occupant is Killed<sup>1</sup>**

Drivers reported using a cellphone (2010-2013)	2.4%
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**Data Sources:** Population counts from the U.S. Bureau of the Census. <sup>1</sup> Fatal Analysis Reporting System, 2009-2013, National Highway Traffic Safety Administration. <sup>2</sup> State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

\* = Less than 10.

n/a = Not available

# Suicide & Self-Harm, Age 10-19 Minnesota

**Table 6a: Suicide Deaths and Self-Harm Hospitalizations Among 10 to 19 Year-Olds**

	Deaths <sup>1</sup> (2009-2013)	Deaths <sup>1</sup> per 100,000	Hospital Admissions <sup>2</sup> (2012)	Hospital Admissions <sup>2</sup> per 100,000	Total Hospital Days	Median Hospital Days
Total	221	6.14	839	117.26	3639	2
Cut/Pierce	*	*	156	21.80	972	5
Poisoning	12	0.33	591	82.60	1905	2
Firearm	94	2.61	*	*	*	*

**Data Sources:** Population counts from the U.S. Bureau of the Census. <sup>1</sup> Multiple Cause of Death File, 2009-2013, National Center for Health Statistics. <sup>2</sup> State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

\* = Less than 10.

n/a = Not available



# Interpersonal Violence, Age 0-19 Minnesota

**Table 7a: Homicide Deaths and Assault Hospitalizations Among 0 to 19 Year-Olds**

	Deaths <sup>1</sup> (2009-2013)	Deaths <sup>1</sup> per 100,000	Hospital Admissions <sup>2</sup> (2012)	Hospital Admissions <sup>2</sup> per 100,000	Total Hospital Days	Median Hospital Days
Age 0-9	43	1.21	*	*	63	4
Age 10-19	59	0.83	95	13.28	339	2
Child Maltreatment, Age 0-3	*	*	n/a	n/a	n/a	n/a

**Data Sources:** Population counts from the U.S. Bureau of the Census. <sup>1</sup> Multiple Cause of Death File, 2009-2013, National Center for Health Statistics. <sup>2</sup> State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

\* = Less than 10.

n/a = Not available

# Falls & Struck by /Against Injuries, Age 0-19 Minnesota

**Table 8: Fall and Struck By/Against Deaths and Hospitalizations Among 0 to 19 Year-Olds, with Sports/Recreation-Related and Furniture/Stair-Related Injuries Highlighted**

	Deaths <sup>1</sup> (2009-2013)	Deaths <sup>1</sup> per 100,000	Hospital Admissions <sup>2</sup> (2012)	Hospital Admissions <sup>2</sup> per 100,000	Total Hospital Days	Median Hospital Days
Age 0-9, Total	11	0.31	358	50.37	637	1
Sports/Recreation			77	10.83	86	1
Furniture/Stairs			79	11.12	180	1
Age 10-19, Total	10	0.28	464	64.85	1408	2
Sports/Recreation			198	27.67	527	2
Furniture/Stairs			21	2.93	86	2

**Data Sources:** Population counts from the U.S. Bureau of the Census. <sup>1</sup> Multiple Cause of Death File, 2009-2013, National Center for Health Statistics. <sup>2</sup> State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

\* = Less than 10.

n/a = Not available

# Drug Poisoning Among Youths Ages 15-24 Minnesota

Figure 2: MVT, Suicide and Drug Poisoning Fatality Rates Among Youths Aged 15 through 24, Minnesota, 2009-2013

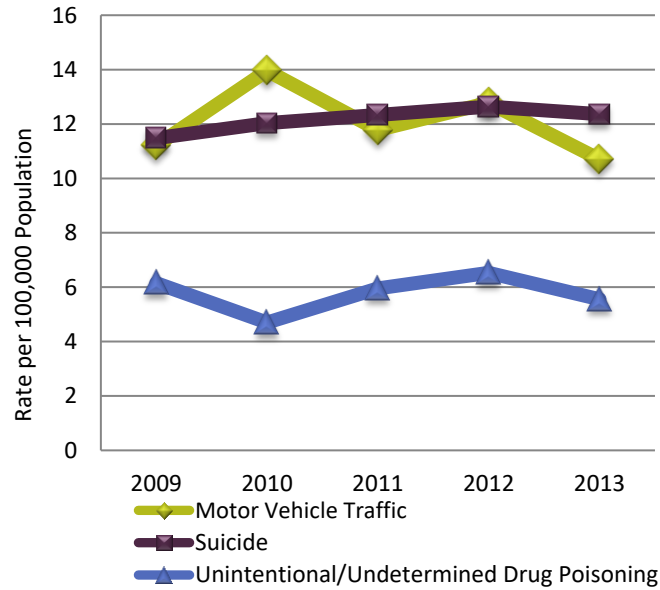
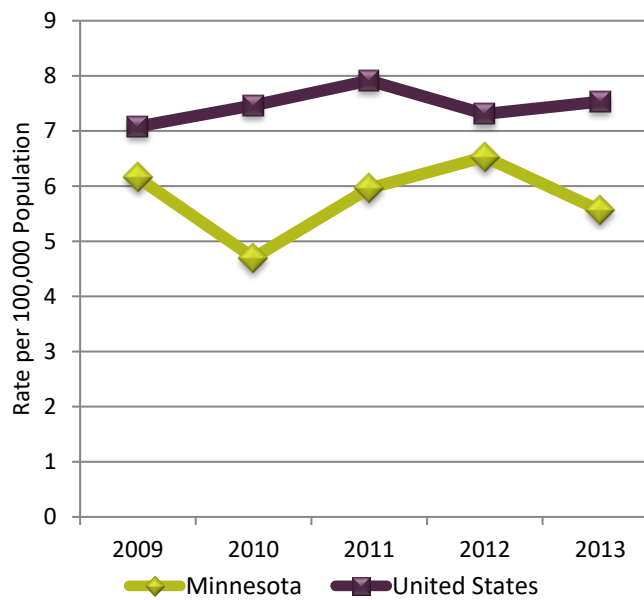


Figure 3: Fatal Unintentional and Undetermined Drug Poisoning Rate Among Youths Aged 15 through 24, Minnesota and U.S., 2009-2013



# Drug Poisoning Among Youths Ages 15-24 Minnesota

Figure 4: Percentage Distribution of Fatal Unintentional And Undetermined Drug Poisoning By Drug Type Among Youths Aged 15 through 24, Minnesota, 2009-2013]

