

Preliminary

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 Missouri

**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
Total Incidence	295	393.1	571	186.7	472	120.7	1,338	173.3
Unintentional	229	305.1	529	172.9	445	113.8	1,203	155.9
Cut/Pierce	****	****	****	****	15	3.8	25	3.2
Drowning	0	0.0	****	****	****	****	16	2.1
Fall	51	68.0	114	37.3	146	37.3	311	40.3
Fire/Burn	21	28.0	63	20.6	17	4.3	101	13.1
<i>Fire/Flame</i>	****	****	****	****	****	****	17	2.2
<i>Hot Object/Substance</i>	18	24.0	55	18.0	11	2.8	84	10.9
Firearm	****	****	****	****	****	****	****	****
Machinery	0	0.0	****	****	****	****	****	****
Motor Vehicle Traffic	12	16.0	47	15.4	44	11.3	103	13.3
<i>Occupant</i>	****	****	37	12.1	31	7.9	****	****
<i>Motorcyclist</i>	0	0.0	0	0.0	****	****	****	****
<i>Pedal Cyclist</i>	0	0.0	****	****	****	****	****	****
<i>Pedestrian</i>	0	0.0	****	****	****	****	16	2.1
<i>Unspecified</i>	0	0.0	0	0.0	0	0.0	0	0.0
<i>Other</i>	****	****	0	0.0	0	0.0	****	****
Pedal Cyclist, Other	0	0.0	****	****	25	6.4	****	****
Pedestrian, Other	0	0.0	****	****	****	****	****	****
Transport, Other	0	0.0	****	****	23	5.9	****	****
Bites and Stings	****	****	55	18.0	44	11.3	****	****
Other Natural/Environmental	****	****	****	****	****	****	22	2.9
Overexertion	****	****	****	****	****	****	11	1.4
Poisoning	****	****	95	31.1	****	****	115	14.9
Struck By/Against	****	****	33	10.8	30	7.7	****	****
Suffocation	13	17.3	****	****	****	****	25	3.2
Other	93	123.9	61	19.9	63	16.1	217	28.1
Self-Inflicted	0	0.0	****	****	****	****	****	****
Cut/Pierce	0	0.0	0	0.0	****	****	****	****
Firearm	0	0.0	0	0.0	0	0.0	0	0.0
Poisoning	0	0.0	****	****	****	****	****	****
Suffocation	0	0.0	0	0.0	****	****	****	****
Other	0	0.0	0	0.0	****	****	****	****
Assault	57	76.0	31	10.1	11	2.8	99	12.8
Cut/Pierce	0	0.0	****	****	0	0.0	****	****
Firearm	0	0.0	****	****	****	****	****	****
Struck By/Against	0	0.0	****	****	****	****	****	****
Other	57	76.0	28	9.2	****	****	****	****
Undetermined	****	****	****	****	****	****	19	2.5
Poisoning	0	0.0	****	****	****	****	****	****
Other	****	****	****	****	****	****	13	1.7
Legal/Military	0	0.0	0	0.0	0	0.0	0	0.0
Unspecified	****	****	0	0.0	****	****	****	****

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 Missouri State Inpatient Databases (SID), Healthcare Cost and Utilization Project (HCUP), Agency for Healthcare Research and Quality (AHRQ).

Hospital-Admitted Injuries, Age 10-19, 2012 Missouri

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

Intent/Mechanism					Ages 10-19	
	Age 10-14	Rate	Age 15-19	Rate	Total	Rate
Total Incidence	808	204.9	2,328	577.1	3,136	393.1
Unintentional	566	143.5	1,282	317.8	1,848	231.7
Cut/Pierce	17	4.3	39	9.7	56	7.0
Drowning	****	****	****	****	****	****
Fall	130	33.0	150	37.2	280	35.1
Fire/Burn	18	4.6	31	7.7	49	6.1
<i>Fire/Flame</i>	****	****	21	5.2	****	****
<i>Hot Object/Substance</i>	11	2.8	****	****	****	****
Firearm	15	3.8	19	4.7	34	4.3
Machinery	****	****	****	****	11	1.4
Motor Vehicle Traffic	68	17.2	510	126.4	578	72.5
<i>Occupant</i>	46	11.7	419	103.9	465	58.3
<i>Motorcyclist</i>	****	****	41	10.2	****	****
<i>Pedal Cyclist</i>	****	****	****	****	****	****
<i>Pedestrian</i>	12	3.0	18	4.5	30	3.8
<i>Unspecified</i>	****	****	22	5.5	****	****
<i>Other</i>	****	****	****	****	****	****
Pedal Cyclist, Other	34	8.6	16	4.0	50	6.3
Pedestrian, Other	****	****	****	****	****	****
Transport, Other	62	15.7	87	21.6	149	18.7
Bites and Stings	41	10.4	56	13.9	97	12.2
Other Natural/Environmental	****	****	21	5.2	****	****
Overexertion	14	3.6	24	5.9	38	4.8
Poisoning	13	3.3	84	20.8	97	12.2
Struck By/Against	58	14.7	97	24.0	155	19.4
Suffocation	****	****	****	****	11	1.4
Other	71	18.0	136	33.7	207	25.9
Self-Inflicted	198	50.2	767	190.1	965	121.0
Cut/Pierce	69	17.5	202	50.1	271	34.0
Firearm	****	****	****	****	****	****
Poisoning	107	27.1	495	122.7	602	75.5
Suffocation	****	****	28	6.9	****	****
Other	12	3.0	41	10.2	53	6.6
Assault	25	6.3	177	43.9	202	25.3
Cut/Pierce	0	0.0	15	3.7	15	1.9
Firearm	****	****	89	22.1	****	****
Struck By/Against	****	****	48	11.9	****	****
Other	****	****	25	6.2	****	****
Undetermined	12	3.0	57	14.1	69	8.6
Poisoning	****	****	47	11.7	****	****
Other	****	****	****	****	15	1.9
Legal/Military	0	0.0	****	****	****	****
Unspecified	****	****	38	9.4	****	****

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 Missouri 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 Missouri

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

Age Groups							
Rank	<1	1 - 4	5 - 9		10 - 14	15-19	20-24
1	Suffocation 271	Homicide 68	MVT 41		MVT 49	MVT 413	MVT 500
2	Homicide 42	MVT 38	Drowning 16		Suicide 33	Homicide 260	Suicide 349
3	MVT 10	Drowning 28	Fire/Burn 12	Homicide 12	Homicide 25		Poisoning 344
4	Fire/Burn ****	Fire/Burn 27	*Three Tied ****		Fire/ Burn 10	Drowning 10	Poisoning 92
5	Undetermined Suffocation ****	Suffocation 15	Other transport ****	Poisoning ****	Undetermined Suffocation ****	Natural/ environmental ****	Drowning 29
							Drowning 26

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: Missouri Multiple Cause of Death File (MCOF), 2009-2013, National Center for Health Statistics.

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

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

Rank	Age Groups						
	<1	1 - 4	5 - 9		10 - 14	15-19	20-24
1	Assault 57	Fall 114	Fall 154		Self-Inflicted 247	Self-Inflicted 833	Self-Inflicted 906
2	Unintentional Unspecified 55	Poisoning 96	Bites and stings 48		Fall 140	MVT 511	MVT 671
3	Fall 51	Bites and stings 56	Struck by/ against 44	MVT 44	Struck by/ against 72	Assault 192	Assault 300
4	Other specified, NEC 24	Hot object/ substance 55	Unintentional Unspecified 32		MVT 68	Fall 158	Fall 220
5	Hot object/ substance 18	MVT 47	Other spec & classifiable 31		Transport, other 64	Struck by/against 107	Poisoning 205

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 Missouri 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: Missouri State Inpatient Databases, 2012, Healthcare Utilization Project, Agency for Healthcare Research and Quality.

Child Passenger Injuries, Age 0-14 Missouri

Table 4a: Child Passenger Deaths and Hospitalizations

	Deaths ¹ (2009-2013)	Deaths ¹ per 100,000	Hospital Admissions ² (2012)	Hospital Admissions ² per 100,000	Total Hospital Days	Median Hospital Days
Age 0-4	27	1.40	44	11.5	159	1
Age 5-9	30	1.54	32	8.2	96	2
Age 10-14	39	1.97	37	9.4	264	3
Total Age 0-14	96	1.21	113	9.7	519	3

Table 4b: Restraint Use of Children Killed In Crashes¹

Not restrained, Age 0-4	22.2%
Not restrained, Age 5-9	33.3%
Not restrained, Age 10-14	38.5%
Not restrained, Age 0-14	32.3%

Table 4c: Who Is Driving When a Child Passenger Is Killed¹

Driver reported by police as alcohol-involved	14.6%
Driver reported by police as drug-involved	6.3%
Driver of other vehicle in crash reported alcohol-involved	8.3%
Driver reported using a cellphone	1.3%

Data Sources: Population counts from the U.S. Bureau of the Census. ¹ Fatal Analysis Reporting System, 2009-2013, National Highway Traffic Safety Administration. ² 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 Missouri

Table 5a: Teenage Motor Vehicle Occupant Deaths and Hospitalizations

	Deaths ¹ (2009-2013)	Deaths ¹ per 100,000	Hospital Admissions ² (2012)	Hospital Admissions ² per 100,000	Total Hospital Days	Median Hospital Days
Total Occupants	375	18.14	460	114.03	2272	3
Vehicle	362	17.51	419	103.87	2118	3
Motorcycle	13	0.63	41	10.16	154	2

Table 5b: Restraint and Helmet Use of Teen Occupants Killed in Crashes¹

Vehicle occupants not restrained	67.5%
Motorcycle riders not wearing a helmet, or wearing non-DOT-compliant helmet	23.1%

Table 5c: Alcohol Involvement in Crashes Where a Teen Occupant is Killed¹

Any driver reported by police as alcohol-involved	29.3%
Teen driver of teen killed reported by police as alcohol-involved	19.7%

Table 5d: Driver Cell Phone Use in Crashes Where a Teen Occupant is Killed¹

Drivers reported using a cellphone (2010-2013)	2.1%
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Data Sources: Population counts from the U.S. Bureau of the Census. ¹ Fatal Analysis Reporting System, 2009-2013, National Highway Traffic Safety Administration. ² 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 Missouri

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

	Deaths ¹ (2008-2012)	Deaths ¹ per 100,000	Hospital Admissions ² (2012)	Hospital Admissions ² per 100,000	Total Hospital Days	Median Hospital Days
Total	227	5.57	965	121.0	4125	3
Cut/Pierce	*	*	271	34.0	1644	5
Firearm	110	2.70	*	*	35	17
Poisoning	13	0.32	602	75.5	1862	2

Data Sources: Population counts from the U.S. Bureau of the Census. ¹ Multiple Cause of Death File, 2008-2012, National Center for Health Statistics. ² 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 Missouri

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

	Deaths ¹ (2009-2013)	Deaths ¹ per 100,000	Hospital Admissions ² (2012)	Hospital Admissions ² per 100,000	Total Hospital Days	Median Hospital Days
Age 0-9	132	3.40	99	12.8	671	3
Age 10-19	314	3.95	202	25.3	903	3
Child Maltreatment, Age 0-3	12	0.78	91	30.1	667	3

Data Sources: Population counts from the U.S. Bureau of the Census. ¹ Multiple Cause of Death File, 2008-2012, National Center for Health Statistics. ² 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 Missouri

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 ¹ (2009-2012) ³	Deaths ¹ per 100,000	Hospital Admissions ² (2012)	Hospital Admissions ² per 100,000	Total Hospital Days	Median Hospital Days
Age 0-9, Total	*	*	380	49.2	823	1
Sports/Recreation	n/a	n/a	72	9.3	113	1
Furniture/Stairs	n/a	n/a	90	11.7	198	1
Age 10-19, Total	12	0.29	435	54.5	1286	2
Sports/Recreation	n/a	n/a	147	18.4	323	2
Furniture/Stairs	n/a	n/a	32	4.0	74	2

Data Sources: Population counts from the U.S. Bureau of the Census. ¹ Multiple Cause of Death File, 2008-2012, National Center for Health Statistics. ² 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 Missouri

Figure 1: MVT, Suicide and Drug Poisoning Fatality Rates Among Youths Aged 15 through 24, Missouri, 2009-2013

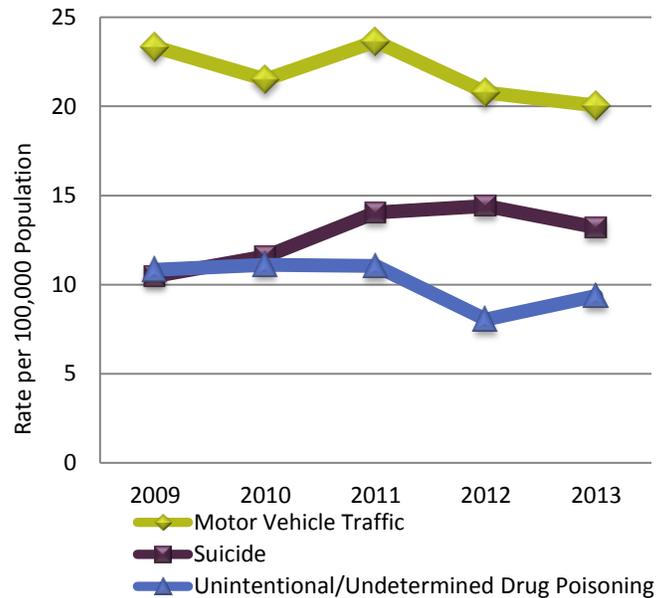
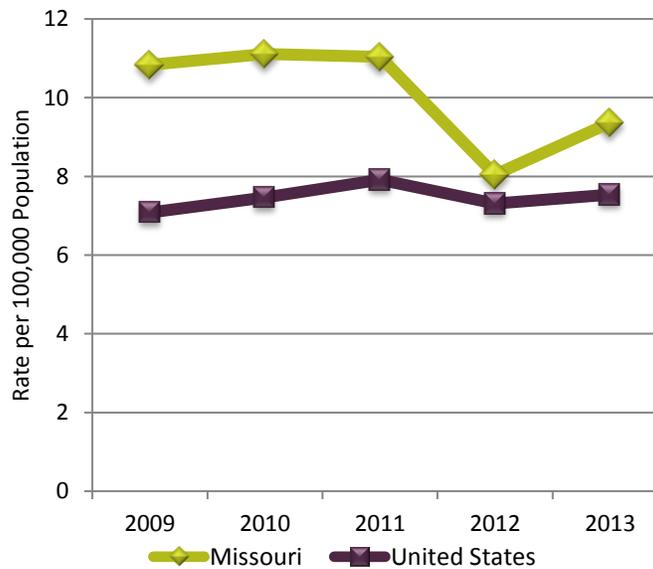


Figure 2: Fatal Unintentional and Undetermined Drug Poisoning Rate Among Youths Aged 15 through 24, Missouri and U.S., 2009-2013



Drug Poisoning Among Youths Ages 15-24 Missouri

Figure 3: Percentage Distribution of Fatal Unintentional and Undetermined Drug Poisoning By Drug Type Among Youths Aged 15 through 24, Missouri, 2009-2013]

