

<b>Females</b> <b>Nonfatal Spinal Cord Injuries<sup>1</sup>,</b> <b>MA Residents, FY2006 - FY2015</b>				
Year	Hospital Stays (n)	ED Visits (n)	Total SCIs (n)	SCI Rate per 100,000 <sup>2</sup>
2006	84	36	120	3.6
2007	87	50	137	4.1
2008	99	71	170	5.1
2009	114	52	166	4.9
2010	124	52	176	5.2
2011	117	50	167	4.9
2012	109	63	172	5.0
2013	112	52	164	4.7
2014	100	69	169	4.9
2015	95	50	145	4.1

<b>Males</b> <b>Nonfatal Spinal Cord Injuries<sup>1</sup>,</b> <b>MA Residents, FY2006 - FY2015</b>				
Year	Hospital Stays (n)	ED Visits (n)	Total SCIs (n)	SCI Rate per 100,000 <sup>2</sup>
2006	175	66	241	7.8
2007	225	68	293	9.4
2008	210	69	279	8.9
2009	191	75	266	8.4
2010	217	85	302	9.5
2011	234	70	304	9.5
2012	219	85	304	9.4
2013	210	71	281	8.6
2014	195	77	272	8.3
2015	241	84	325	9.9

1. Deaths and transfers between hospitals were excluded.

2. Crude rate per 100,000 persons.

**Data Sources:**

Injuries - MA Hospital Discharge, Outpatient Observation Stay, and Emergency Department Discharge Databases, MA Center for Health Information and Analysis. Data are collected and reported by fiscal year.

Population - Missouri Census Data Center, Population Estimates by Age; accessed 7/20/17.

<b>Total</b> <b>Nonfatal Spinal Cord Injuries<sup>1</sup>,</b> <b>MA Residents, FY2006 - FY2015</b>				
<b>Year</b>	<b>Hospital Stays (n)</b>	<b>ED Visits (n)</b>	<b>Total SCIs (n)</b>	<b>SCI Rate per 100,000<sup>2</sup></b>
<b>2006</b>	259	102	361	5.6
<b>2007</b>	312	118	430	6.7
<b>2008</b>	309	140	449	6.9
<b>2009</b>	305	127	432	6.6
<b>2010</b>	341	137	478	7.3
<b>2011</b>	351	120	471	7.1
<b>2012</b>	328	148	476	7.2
<b>2013</b>	322	123	445	6.6
<b>2014</b>	295	146	441	6.5
<b>2015</b>	336	134	470	6.9

1. Deaths and transfers between hospitals were excluded.

2. Crude rate per 100,000 persons.

Injuries - MA Hospital Discharge, Outpatient Observation Stay, and Emergency Department Discharge Databases, MA Center for Health Information and Analysis. Data are collected and reported by fiscal year.

Population - Missouri Census Data Center, Population Estimates by Age; accessed 7/20/17.

*Prepared by the Injury Surveillance Program, MDPH - August, 2017; JH, LK*

Rate of Nonfatal Spinal Cord Injury <sup>1</sup> by Age Group, MA Residents, FY2015			
Age Group (years)	Nonfatal SCIs (n)	Population	Rate per 100,000 <sup>2</sup>
Under age 15	16	1,136,539	1.4
Ages 15-24	34	951,573	3.6
Ages 25-44	77	1,777,941	4.3
Ages 45-64	157	1,883,147	8.3
Age 65 and over	186	1,045,222	17.8
<b>Total<sup>3</sup></b>	<b>470</b>	<b>6,794,422</b>	<b>6.9</b>

Rate of Nonfatal Spinal Cord Injury <sup>1</sup> by Race/Ethnicity, MA Residents, FY2015			
Race/Ethnicity	Nonfatal SCIs (n)	Population	Rate per 100,000 <sup>2</sup>
White, non-Hispanic	368	5,059,948	7.3
Black, non-Hispanic	43	500,879	8.6
Hispanic	31	759,194	4.1
Asian/Pacific Islander	<11	459,040	---

1. Counts exclude deaths and transfers between hospitals. Counts of less than 11 and associated cells are suppressed due to confidentiality guidelines.

2. Crude rate per 100,000 persons. Rates calculated on counts of less than 20 may be unstable.

3. Total includes cases with missing age.

**Data Sources:**

Injuries - MA Hospital Discharge, Outpatient Observation Stay, and Emergency Department Discharge Databases, MA Center for Health Information and Analysis. Data are collected and reported by fiscal year.

Population: Missouri Census Data Center, Population Estimates by Age Query System. Accessed 7/20/17.

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Nonfatal Spinal Cord Injuries by Cause and Intent <sup>1</sup> , MA Residents, FY2013 - FY2015		
Cause	Count	Percent of Total
<b>Unintentional</b>	1,170	86.3%
<b>Fall</b>	707	52.1%
<b>MV-Traffic</b>	218	16.1%
<i>MV-Occupant/Unspecified</i>	150	11.1%
<i>Motorcyclist</i>	32	2.4%
<i>MV-Pedestrian</i>	24	1.8%
<i>MV-Other person-type</i>	<11	---
<b>Struck by or against</b>	36	2.7%
<b>Overexertion</b>	25	1.8%
<b>Other Transport</b>	26	1.9%
<b>Other specified &amp; classified</b>	26	1.9%
<b>Other specified, not classified</b>	30	2.2%
<b>Unspecified</b>	77	5.7%
<b>Assault</b>	52	3.8%
<b>Self-inflicted</b>	<11	---
<b>Undetermined intent</b>	<11	---
<b>Adverse medical event</b>	28	2.1%
<b>Missing cause or intent</b>	89	6.6%
<b>Total</b>	<b>1,356</b>	<b>100.0%</b>

1. Counts exclude deaths and transfers between hospitals. Counts of less than 11 and associated cells are suppressed due to confidentiality guidelines.

Leading Causes of Nonfatal Spinal Cord Injury, by Visit Type, MA Residents, FY2013 - FY2015		
Leading Causes	Hospital Stays	ED Visits
<b>Unintentional Fall</b>	491	216
<b>Unintentional MV-traffic</b>	156	62
<i>MV-Occupant/unspecified</i>	99	51

**Data Sources:**

MA Hospital Discharge, Outpatient Observation Stay, and Emergency Department Discharge Databases, MA Center for Health Information and Analysis. Data are collected and reported by fiscal year.

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Total Hospital Charges, Cases involving Spinal Cord Injury <sup>1</sup> , MA Residents, FY2015				
Type Visit	SCIs (n)	Median Charge	Total Charges	Percent of Total Charges
Hospital Admissions	356	\$59,053	\$37,044,943	97%
Observation Stays	23	\$11,191	\$319,593	1%
ED Visits	136	\$5,059	\$868,321	2%
Total	515	---	\$38,232,857	100%

Median Length of Hospitalization for Cases involving Spinal Cord Injury <sup>1</sup> , MA Residents, FY2015			
Type Visit	SCIs (n)	Median Length of Stay	Total Hospital Days
Hospital Admission	356	6 days	3,552 days

1. Hospital charge data include patients who were transferred to another hospital or died in the hospital. Total counts may therefore differ from nonfatal counts in other tables.

**Data Sources:**

MA Hospital Discharge, Outpatient Observation Stay, and Emergency Department Discharge Databases, MA Center for Health Information and Analysis. Data are collected and reported by fiscal year.

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**The following diagnosis codes were used in these analyses to define spinal cord injuries:**

**Morbidity - Hospital Data (ICD-9-CM codes)**

Any case with a primary or accessory diagnosis of:

806(.0-.9) Fracture of vertebral column with spinal cord injury

952(.0-.9) Spinal cord injury without evidence of spinal bone injury