Injuries are a leading cause of emergency department (ED) visits among Massachusetts children. In fiscal year 2017 there were 167,416 ED visits.¹ The leading injury mechanisms contributing to ED visits were unintentional falls, struck-by or against an object, and overexertion.

	INJURY INTENT					Other/		
Key Indicators	Uninten- tional	Self-Inflicted	Assault	Undeter- mined	Legal/ Other ²	Missing ³	Totals	
Total Counts by Intent	154,149	1,616	2,399	223	19	9,010	167,416	
Percent by Intent	92.1%	1.0%	1.4%	0.1%	0.0%	5.4%		100.0%
Rate per 100,000 population ⁴	11,030.9	115.6	171.7	16.0	1.4	644.8	2,435.3	
	INJURY INTENT							
Injury Mechanism	Uninten- tional	Self-Inflicted	Assault	Undeter- mined	Legal/ Other ²	Subtotal Counts	Percent of Total Count ⁵	Rate per 100,000 ⁴
Cut/pierce	6,384	700	56	65	0	7,205	4.3%	456.8
Drowning/Submersion	71	<11	<11	18		96	0.1%	5.1
Fall	39,870	<11	0	<11		39,880	23.8%	2,853.1
Fire/burn	1,476	11	<11	<11	0	1,501	0.9%	105.6
Fire/flame	147	<11	<11	<11	0	153	0.1%	10.5
Burns/hot objects & substances	1,329	<11	<11	<11		1,348	0.8%	95.1
Firearm	26	0		<11	0	43	0.0%	1.9
Machinery 16.#	93	_	_			93	0.1%	6.7
Natural/Environmental ^{6,‡}	5,949-5,967	0	0	<11		5,949-5,967		
Bites and stings, nonvenomous	5,078					5,078	3.0%	363.4
Bites and stings, venomous [‡]	310-330	0	0	<11		310-330		
Natural/environmental, other	561	0	0	0		561	0.3%	40.1
Overexertion	7,887					7,887	4.7%	564.4
Poisoning [‡]	1,731	630	<11	43-77	0	2,437	1.5%	123.9
Drug poisoning [‡]	1,215	599	<11	43-77		1,870	1.1%	86.9
Non-drug poisoning	516	31	<11		0	567	0.3%	36.9
Struck by or against object	25,994	<11	1,598	16	<11	27,627	16.5%	1,860.1
Suffocation ⁷		<11	0	0	0	64	0.0%	4.0
Transport Injuries:	9,945	<11	<11	0		9,948	5.9%	712
Motor vehicle Traffic (MVT) [‡]	7,089	<11	<11	0		7,092	4.2%	507
MVT - Occupant ⁸	6,027	<11	<11			6,030	3.6%	431.3
MVT - Motorcyclist	159					159	0.1%	11.4
MVT - Pedal cyclist	518					518	0.3%	37.1
MVT - Pedestrian [‡]	375-395		<11			375-395		
MVT - Other person-type	<11	<11				<11		
MVT - Undetermined intent				0		0	0.0%	0.0
Motor vehicle Nontraffic ⁹	335					335	0.2%	24.0
Pedal cyclist, other	1,856					1,856	1.1%	132.8
Pedestrian, other	150					150	0.1%	10.7
Other land transport	458	0	0			458	0.3%	32.8
Other transport	57	0	0		0	57	0.0%	4.1
Other-specified & classifiable	4,696	<11	544	<11	0	5,244	3.1%	336.0
Child and adult abuse			362			362	0.2%	0.0
Foreign body	1,403					1,403	0.8%	100.4
Other specified & classifiable	3,293		182	<11	0	3,479		235.6
Other specified, not classifiable		212	107		<11	357	0.2%	0.0
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Data Source: Massachusetts Outpatient Emergency Department Discharge Database, Center for Health Information and Analysis (CHIA). Data are collected and reported by fiscal year (Oct. 1, 2016 - Sept. 30, 2017). Due to the implementation of the International Classification of Diseases, Version 10, Clinical Modification (ICD-10-CM) in October 2015, counts and rates presented here should not be compared to prior data that were based on ICD-9-CM codes. Refer to page 2 for general notes, references, and footnotes.

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0

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16,724

Unspecified

10.0%

(Continued)

General Notes:

- •The injury case definition is based on the Council of State and Territorial Epidemiologists (CSTE) document: *Nonfatal Emergency Department Visits for All Injuries* and includes selected ICD-10-CM codes from diagnosis and external cause code (E-Code) fields. Only visits for active treatment of injuries are included.
- •Injury mechanism and intent categories are based on the Center for Disease Control and Prevention's (CDC) External Cause-of-injury Framework for Categorizing Mechanism and Intent of Injury and are categorized based on the first external cause code or diagnosis code providing injury mechanism and intent. The search order for our analysis is principal E-code field, primary diagnosis field, then associated diagnosis fields. This search order may underestimate the number of injuries in some categories as some patients are assigned more than one ICD-10-CM injury code.
- •Gray cells indicate that there are no ICD-10-CM codes assigned to the category. Subcategories within transportation are also suppressed, with the exception of unintentional injuries, to ensure patient confidentiality.
- •All injury subcategories are shown in italics. For example, poisoning includes two subcategories drug poisoning and non-drug poisoning.
- Per data confidentiality guidelines, counts less than 11 (including sometimes 0 if necessary) are suppressed and complementary cells that allow calculation of totals are suppressed (indicated by "--").
- [‡] For certain categories, providing an exact count would allow calculation of other suppressed cells.

A range is provided to show the approximate size for this category, but without allowing the calculation of suppressed cells.

References:

Council of State and Territorial Epidemiologists (CSTE). *Nonfatal Emergency Department Visits for All Injuries*. Refer to the CSTE's online ICD-10-CM Injury Surveillance Toolkit.

National Health Statistics Report. The International Classification of Diseases, 10th Revision, Clinical Modification (ICD–10–CM): External Cause-of-injury Framework for Categorizing Mechanism and Intent of Injury; #136, 12/30/2019.

Footnotes:

- 1) Includes MA residents under the age of 18 treated at a MA acute care hospital emergency department in FY2017 (Oct. 1, 2016 Sept. 30, 2017); deaths occurring prior to or during the ED visit are excluded. Counts represent the number of injury-related emergency department visits rather than the number of individuals treated.
- 2) Includes injuries resulting from police actions and war.
- 3) Includes injuries with no external cause code.
- 4) Crude rates per 100,000 MA residents are based on 2017 child population (under 18 years) estimates (1,397,432) developed by the University of Massachusetts Donahue Institute (UMDI) in partnership with the Massachusetts Department of Public Health, Bureau of Environmental Health.
- 5) Totals may not sum to 100% due to rounding.
- 6) Natural/Environmental (N/E) injuries includes bites and stings from animals and insects. The other N/E category includes injuries from forces of nature (e.g., flood, storm, cold weather), animal injuries other than bites, etc.
- 7) Includes asphyxiation and hanging.
- 8) Includes motor vehicle drivers, passengers, and unspecified persons.
- 9) Includes motor vehicle drivers, passengers, and unspecified persons, injured in a crash that does not occur on a public roadway (e.g. driveway, parking lot, private road, etc.).