Injuries are a leading cause of emergency department (ED) visits among Massachusetts children. In federal fiscal year (FFY) 2021, there were 87,835 injury-related ED visits. Injury-related ED visits increased 25% among self-inflicted injuries from 2020 to 2021, while assault-related ED visits decreased by 20%. The leading injury mechanisms contributing to ED visits were unintentional falls, struck-by or against an object, and transportation injuries.

Notational Self-Inflicted		INJURY INTENT					_		
Percent by Intent	Key Indicators	Unintentional	Self-Inflicted	Assault			Missing <sup>3</sup>	Totals	
Rate per 100,000 population	Total Counts by Intent	83,426	1,649	1,453	228	12	1,067		87,835
Injury Mechanism	Percent by Intent	95.0%	1.9%	1.7%	0.3%	<0.1%	1.2%		100.0%
Injury Mechanism	Rate per 100,000 population <sup>4</sup>	6,522.3	128.9	113.6	17.8	0.9	83.4		6,867.0
Injury Mechanism		INJURY INTENT						D of	D-t
Drowning/Submersion	Injury Mechanism	Unintentional	Self-Inflicted	Assault					
Fall 29,365 < .11 < .11 37 29,407 33.5% 2,299. Fire/burn 1,09011 13 0 1,116 1.3% 87. Fire/flome 91 < .11 < .11	• •		764	43		0	5,639		
Fire/burn 1,990 - 411 13 0 1,116 1.3% 87.  Fire/filame 91 <11 <11 <11			ŭ						
Fire/flame			<11						
Burns/hot objects & substances   999		· · · · · · · · · · · · · · · · · · ·				0			
Firearm 17 0 <11 <11 <11 <12 0.0% 2  Machinery 666				<11		0			
Matchinery         66         0         4         66         0.1%         5.3           Natural/Environmental of Bites and stings, nonvenomous Bites and stings, nonvenomous Bites and stings, venomous 239-250         0         0         411         3,831-3,842	<del>-</del>								
Natural/Environmental <sup>6,†</sup> 3,831-3,842 0 0 0 411 3,831-3,842			0	<11	<11	<11			
Bites and stings, nonvenomous         3,208         3,208         3,208         3,7%         250.8           Bites and stings, venomous †         239-250         0         0         <11	•	+							5.2
Bites and stings, venomous	Natural/Environmental <sup>6,‡</sup>	3,831-3,842	0	0	<11		3,831-3,842		
Natural/environmental, other *         384         0         0         0         384         0.4%         30.0           Overexertion         5,711         65,711         5,711         6.5%         446.5           Poisoning         1,115         636         <11          0         1,803         2.1%         141.           Poisoning, Drug         802         611         <11          0         351         0.4%         27.4           Struck by or against object         14,946         <11         919         49         <11         15,929         18.1%         1,245.3           Suffocation or against object         14,946         <11         919         49         <11         15,929         18.1%         1,245.3           Suffocation or against object         14,946         <11         919         49         <11         15,929         18.1%         1,245.3           Suffocation or against object         14,946         <11         <11         <11         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <td>Bites and stings, nonvenomous</td> <td>3,208</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>250.8</td>	Bites and stings, nonvenomous	3,208							250.8
Overexertion         5,711         6.5%         446.5           Poisoning         1,115         636         <11	Bites and stings, venomous <sup>‡</sup>	239-250	0	0	<11	0	239-250		
Poisoning 1,115 636 <11 0 1,803 2.1% 141.0  Poisoning, Drug 802 611 <11 0 351 0.4% 27.4  Poisoning, Non-Drug 313 25 <11 0 351 0.4% 27.4  Struck by or against object 14,946 <11 919 49 <11 15,929 18.1% 1,245.3  Struck by or against object 5,6767 <11 <11 <11 <11 0 31 0.0% 2.4  Transport Injuries: 6,767 <11 <11 <11 <11 6,770 7.7% 529.3  Motor vehicle Traffic (MVT) 4,402 <11 0 <11 <41 <41 <41 <41 <41 <41 <41 <41 <41		384	0	0	0	0	384	0.4%	30.0
Poisoning, Drug		5,711					5,711		
Poisoning, Non-Drug   313   25   <11     0   351   0.4%   27.4			636			0	·		
Struck by or against object         14,946         <11         919         49         <11         15,929         18.1%         1,245.3           Suffocation <sup>7</sup> 24         <11									
Suffocation <sup>7</sup> 24         <11         <11         <11         0         31         0.0%         2.4           Transport Injuries:         6,767         <11									
Transport Injuries: 6,767 <11 <11 <11 <11 6,770 7.7% 529.3  Motor vehicle Traffic (MVT) 4,402 <11 0 <11 4,405 5.0% 344.4  MVT - Occupant 8,						<11			<u> </u>
Motor vehicle Traffic (MVT)         4,402         <11         0         <11         4,405         5.0%         344.4           MVT - Occupant <sup>8,‡</sup> 3,588-3,600         <11						0			
MVT - Occupant <sup>8,‡</sup> 3,588-3,600         <11         <11         3,588-3,600 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
MVT - Motorcyclist         244			<11		<11				344.4
MVT - Pedal cyclist         382         0         382         0.4%         29.5           MVT - Pedestrian         183         0         183         0.2%         14.3           MVT - Other person-type         <11		3,588-3,600	<11	<11			3,588-3,600		
MVT - Pedestrian         183         0         183         0.2%         14.3           MVT - Other person-type         <11									
MVT - Other person-type         <11         <11         <11		<b>4</b>						<b>.</b>	
MVT - Undetermined intent         0         0         0.0%         0.0           Motor vehicle Nontraffic 9         386         386         386         0.4%         30.2           Pedal cyclist, other         1,577         1,577         1.8%         123.3           Pedestrian, other         74         74         0.1%         5.8           Other land transport         290         0         0         290         0.3%         22.7           Other transport         38         0         0         38         0.0%         3.0           Other-specified & classifiable         2,985         <11				0				0.2%	14.3
Motor vehicle Nontraffic 9         386         386         386         386         386         386         386         386         386         386         386         386         386         386         386         386         386         387         38		<11	<11						
Pedal cyclist, other         1,577         1.8%         123.3           Pedestrian, other         74         0.1%         5.8           Other land transport         290         0         0         290         0.3%         22.3           Other transport         38         0         0         0         38         0.0%         3.0           Other-specified & classifiable         2,985         <11					0				
Pedestrian, other         74         0.1%         5.8           Other land transport         290         0         0         290         0.3%         22.7           Other transport         38         0         0         0         38         0.0%         3.0           Other-specified & classifiable         2,985         <11	Motor vehicle Nontraffic 9								
Other land transport         290         0         0         290         0.3%         22.7           Other transport         38         0         0         0         38         0.0%         3.0           Other-specified & classifiable         2,985         <11									
Other transport         38         0         0         0         38         0.0%         3.0           Other-specified & classifiable         2,985         <11									
Other-specified & classifiable         2,985         <11         404         <11         <11         3,395         3.9%         265.4           Child and adult abuse         245         245         245         0.3%         19.2           Foreign bodies         835         835         835         1.0%         65.3           Other specified & classifiable         2,150         <11	,							<b>.</b>	
Child and adult abuse         245         245         0.3%         19.2           Foreign bodies         835         835         835         1.0%         65.3           Other specified & classifiable         2,150         <11									
Foreign bodies         835         835         835         835         835         1.0%         65.3           Other specified & classifiable         2,150         <11		2,985	<11		<11	<11			
Other specified & classifiable         2,150         <11         159         <11         <11         2,315         2.6%         181.0           Other specified, not classifiable         190         40         39         0         269         0.3%         21.0		025		245					
Other specified, not classifiable         190         40         39         0         269         0.3%         21.0			-11	450	-4.4	24.4			
		2,150							
THISTING IN THE TELL THE TIES OF THE TELL THE THE TELL TH	Unspecified	12,646		36	39	0	12,707		

Data Source: Massachusetts Outpatient Emergency Department Discharge Database, Center for Health Information and Analysis (CHIA). Data are collected and reported by Federal Fiscal Year (Oct. 1, 2020- Sept. 30, 2021). 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. \*Please note that CHIA revised and re-released the FFY2021 files, and that numbers presented here may differ from later reports. Refer to page 2 for general notes, references, and footnotes.

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## (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 "--").
- <sup>†</sup> 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 on-line 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 FFY2021 (Oct. 1, 2020 Sept. 30, 2021); 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 2020 population estimates for under 18 years (1,279,086) 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.).