## Injury-related Emergency Dept. Visits among MA Residents



Injuries<sup>1</sup> are a leading cause of emergency department (ED) visits among Massachusetts residents. In fiscal year 2016, there were 636,002 injury-related ED visits. The leading injury mechanisms contributing to ED visits were unintentional falls, struck-by or against an object, and motor vehicle traffic-related crashes.

	INJURY INTENT							
Key Indicators	Uninten- tional	Self- Inflicted	Assault	Undeter- mined	Legal/ Terrorism <sup>2</sup>	Missing <sup>3</sup>	Totals	
Total Counts by Intent	565,356	6,559	23,561	2,047	699	37,780		636,002
Percent by Intent	88.9%	1.0%	3.7%	0.3%	0.1%	5.9%		100.0%
Rate per 100,000 population <sup>4</sup>	8,223.8	95.4	342.7	29.8	10.2	549.6		9,251.4
	INJURY INTENT						Percent of	
Injury Mechanism	Uninten-	Self-		Undeter-	Legal/	Subtotal Counts	Total	Rate per
	tional	Inflicted	Assault	mined	Terrorism <sup>2</sup>		Count <sup>5</sup>	100,000 <sup>4</sup>
Cut/pierce	47,439	2,603	1,435			51,849	8.2%	754.2
Drowning/Submersion	142			19		163	0.0%	2.4
Fall	172,018	33	24	29		172,104	27.1%	2,503.5
Fire/burn	6,919	65	26	72	0	7,082	1.1%	103.0
Fire/flame	1,287	21			0	1,330	0.2%	103.0
Burns/hot objects & substances	5,632	44	16	60		5,752	0.9%	83.7
Firearm	191		176	15		404	0.1%	5.9
Machinery	3,660		-	-		3,660	0.6%	53.2
Natural/Environmental <sup>6</sup>	23,729			80		23,821	3.7%	346.5
Bites and stings, nonvenomous	18,488					18,488	2.9%	268.9
Bites and stings, venomous	2,193			80		2,284	0.4%	33.2
Natural/environmental, other	3,048			0		3,049	0.5%	44.4
Overexertion	3,213			-		3,213	0.5%	46.7
Poisoning	15,320	2,505		1,141		19,021	3.0%	276.7
Poisoning, Drug	12,670	2,376	24	, 995		16,065	2.5%	233.7
Poisoning, Non-Drug	2,650	129		146		2,956	0.5%	43.0
Struck by or against object	79,977	79	16,575	81	348	97,060	15.3%	1,411.9
Suffocation <sup>7</sup>	207	24			0	236	0.0%	3.4
Transport Injuries:	82,684	31	26	12		82,753	13.0%	1,203.7
Motor vehicle traffic-related	70,344	27	26	12		70,409	11.1%	1,024.2
MV Occupant <sup>8</sup>	63,493					63,514	10.0%	923.9
Motorcyclist	2,238					2,238	0.4%	32.6
Pedal cyclist	2,191					2,191	0.3%	31.9
Pedestrian	2,416					2,435	0.4%	35.4
Other person						19	0.0%	0.3
Unspecified						12	0.0%	0.2
Non-traffic-related	9,734					9,734	1.5%	141.6
MV-Motorcycle Occupant <sup>9</sup>	3,914					3,914	0.6%	56.9
Pedal cyclist	4,684					4,684	0.7%	68.1
Pedestrian	1,136					1,136	0.2%	16.5
Other land transport	2,129					2,132	0.3%	31.0
Other transport	477				0	478	0.1%	7.0
Other-specified & classifiable	15,035		1,461	13		16,522	2.6%	240.3
Child and adult abuse			938			938	0.1%	13.6
Foreign bodies	4,332					4,332	0.7%	63.0
Other specified & classifiable	10,703		523	13		11,252	1.8%	163.7
Other specified, not classifiable		914	2,136	221	230	3,501	0.6%	50.9
Unspecified	114,822	280	1,640			116,833	18.4%	1,699.5

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, 2015 - Sept. 30, 2016). Due to the implementation of ICD-10-CM in October 2015, counts and rates presented here should not be compared to data that were based on ICD-9-CM codes.

General Notes: The injury case definition is based on the Council for 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 in the total. Injury mechanism and intent categories are based on the CDC's The International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) 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 mechanism and intent. The search order 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 cases 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. All injury subcategories are shown in italics. For example, poisoning includes two subcategories – drug poisoning and non-drug poisoning.

Footnotes: 1) Includes MA residents treated at a MA acute care hospital in FY2016 (Oct. 1, 2015 - Sept. 30, 2016); deaths are excluded. Counts represent the number of injury-related emergency department visits rather than the number of individuals treated. Per data confidentiality gui delines, counts less than 11, and complementary cells that allow calculation of totals are suppressed (indicated by "--"). 2) Includes injuries resulting from police actions, terrorism and war. 3) Includes injuries with no external cause code provided. 4) Crude rates per 100,000 MA residents are based on 2016 population estimates (6,874,645) 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, grouped into nonvenomous and venomous categories. The other N/E category includes injuries from forces of nature (e.g., flood, storm, cold weather), animal injuries other than bites, harmful algae and other plant toxins, etc. 7) Includes asphyxiation and hanging. 8) Includes motor vehicle drivers, passengers and unspecified persons. 9) Includes root over on a public roadway (e.g. driveway, parking lot, private road, etc.).

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