## **Injury-related Hospital Stays among MA Residents**

Injuries¹ are a leading cause of death and hospitalization among Massachusetts residents. In fiscal year 2018, there were over 46,517 injury-related hospital stays, more than 3,800 per month. The leading injury mechanisms contributing to hospital stays were unintentional falls, poisoning/overdoses and motor vehicle traffic-related crashes.

		II.					
Key Indicators	Uninten- tional	Self-Inflicted Assault Undetermined		Legal/ Terrorism <sup>2</sup>	Missing <sup>3</sup>	Totals	
Total Counts by Intent	39,473	3,010	1,150	236	14	2,634	46,517
Percent by Intent	84.9%	6.5%	2.5%	0.5%	0.0%	5.7%	100.0%
Rate per 100,000 population <sup>4</sup>	568.2	43.3	16.6	3.4	0.2	37.9	669.6

Injury Mechanism		IN						
	Uninten-		JURY INTEN	Undeter-	Legal/	Subtotal	Percent of	Rate per 100,000 <sup>4</sup>
	tional	Self-Inflicted	Assault	mined	Terrorism <sup>2</sup>	Counts	Total Count <sup>5</sup>	
Cut/pierce	265	226	238	-	-	736	1.6%	10.6
Drowning/Submersion	21		0	-		33	0.1%	0.5
Fall	25,511	21		-		25,542	54.9%	367.7
Fire/burn	372	28				409	0.9%	5.9
Fire/flame	131			0		137	0.3%	2.0
Burns/hot objects & substances	241	23		-		272	0.6%	3.9
Firearm	101		172		-	283	0.6%	4.1
Machinery	151					151	0.3%	2.2
Natural/Environmental <sup>6</sup>	528					529	1.1%	7.6
Bites and stings, nonvenomous	225					225	0.5%	3.2
Bites and stings, venomous	70					70	0.2%	1.0
Natural/environmental, other	233					234	0.5%	3.4
Overexertion	446					446	1.0%	6.4
Poisoning/overdose	4,115	2,540		183		6,846	14.7%	98.5
Drug poisoning	3,801	2,450		172	-	6,431	13.8%	92.6
Non-Drug poisoning	314	90	0	11	0	415	0.9%	6.0
Struck by or against object	1,098	15	491		-	1,608	3.5%	23.1
Suffocation <sup>7</sup>	84	12	0	0	0	96	0.2%	1.4
Transport Injuries:	4,058	11			0	4,076	8.8%	58.7
Motor vehicle traffic-related	3,227	11				3,245	7.0%	46.7
MV Occupant 8	2,129					2,137	4.6%	30.8
Motorcyclist	506					506	1.1%	7.3
Pedal cyclist	182					182	0.4%	2.6
Pedestrian	410					416	0.9%	6.0
Other person								-
Unspecified								
Nontraffic-related	642					642	1.4%	9.2
MV-Motorcycle Occupant <sup>9</sup>	307					307	0.7%	4.4
Pedal cyclist	220					220	0.5%	3.2
Pedestrian	115					115	0.2%	1.7
Other land transport	158	0	0			158	0.3%	2.3
Other transport	31	0	0		0	31	0.1%	0.4
Other-specified & classifiable	438		94		0	535	1.2%	7.7
Child and adult abuse	198		65			65	0.1%	0.9
Foreign body	290					290	0.6%	4.2
Other specified & classifiable	148		29		0	180	0.4%	2.6
Other specified, not classifiable	1.0	120	59			203	0.4%	2.9
Unspecified	2,285	26	76			2,390	5.1%	34.4

Data Sources: Massachusetts Inpatient Hospital Discharge and Outpatient Observation Stay Databases, Center for Health Information and Analy sis (CHIA).

Data are collected and reported by fiscal year (Oct. 1, 2017 - Sept. 30, 2018). "Hospital Stays" combine hospital discharges and observation stays. 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 I CD-9-CM codes.

General Notes: The injury case definition is based on the Council for State and Territorial Epidemiologists (CSTE) document: Nonfatal Hospitalizations for All Injuries and includes selected ICD-10-CM codes from the primary diagnosis field. 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 FY2018 (Oct. 1, 2017 - Sept. 30, 2018); deaths and transfers to another acute care hospital are excluded. Counts represent the number of injury-related hospital stays rather than the number of individuals treated. Per data confidentiality guidelines, 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 2018 population estimates (6,947,185) 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 injuri es 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 carfuruck or motorcycle drivers and passenge rs, and unspecified persons injured in a crash that does not occur on a public roadway (e.g. driveway, parking lot, private road, etc.).