

# Injury-related Emergency Dept. Visits

# 2012\*

## MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Crude Rate per 100,000 <sup>2</sup>
	Unintentional	Intentional		Undetermined	Other & Legal <sup>1</sup>			
		Self-inflicted	Assault					
Cut/pierce	60,818	2,442	1,440	57	<11	<64,768	9.1	97.5
Drowning/submersion	152	<11	<11	<11	<11	161	0.0	0.2
Fall	180,803	25	40	99		180,967	25.3	272.4
Fire/burn	9,298	51	33	42		9,424	1.3	14.2
<i>Fire/flare</i>	1,455	48	14	40		1,557	0.2	2.3
<i>Hot object/substance</i>	7,843	<11	19	<11		7,867	1.1	11.8
Firearm	144	<11	172	25	<11	349	0.0	0.5
Machinery	2,813					2,813	0.4	4.2
Natural/Environmental	33,123	0		38		33,161	4.6	49.9
<i>Dog bites</i>	7,146	0		0		7,146	1.0	10.8
<i>Other bites &amp; stings</i>	22,638	0		0		22,638	3.2	34.1
<i>All other (e.g. extreme cold)</i>	3,339	0		38		3,377	0.5	5.1
Overexertion	72,620					72,620	10.2	109.3
Poisoning	10,139	3,031	30	4,058	<11	<17,269	2.4	26.0
Struck by, against	96,907	0	13,022	0	500	110,429	15.5	166.2
Suffocation	354	172	54	11	<11	<602	0.1	0.9
Transport-related Injuries	84,296	12	25	<11		<84,344	11.8	126.9
<i>Motor vehicle traffic-related</i>	72,248	12	25	<11		<72,296	10.1	108.8
<i>Occupant</i>	60,817					60,817	8.5	91.5
<i>Motorcyclist</i>	2,401					2,401	0.3	3.6
<i>Pedal cyclist</i>	1,272					1,272	0.2	1.9
<i>Pedestrian</i>	3,396					3,396	0.5	5.1
<i>Other person</i>	406					406	0.1	0.6
<i>Unspecified</i>	3,956					3,956	0.6	6.0
<i>Pedal cyclist, other</i>	7,529					7,529	1.1	11.3
<i>Pedestrian, other</i>	497					497	0.1	0.7
<i>Transportation, other</i>	4,022	0	0	<11	0	<4,033	0.6	6.1
Other-specified & classifiable	30,962	11	2,620	<11	<11	33,612	4.7	50.6
<i>Human bites</i>	661		1,075			1,736	0.2	2.6
<i>Non-powder gun (BB, pellet)</i>	255	<11	36	<11	0	300	0.0	0.5
<i>Other specified &amp; classifiable</i>	30,046	<11	1,509	<11	<11	31,576	4.4	47.5
Other specified, not classifiable	19,937	587	5,449	223	24	26,220	3.7	39.5
Unspecified	54,323	121	3,063	4,061	61	61,629	8.6	92.8
Adverse effects <sup>3</sup>						809	0.1	1.2
Cause and Intent are not provided						15,266	2.1	23.0
<b>TOTALS<sup>4</sup></b>	<b>656,689</b>	<b>6,459</b>	<b>25,952</b>	<b>8,627</b>	<b>612</b>	<b>714,414</b>	<b>100.0</b>	<b>1,075.2</b>
<b>RATE BY INTENT/per 100,000</b>	<b>988.2</b>	<b>9.7</b>	<b>39.1</b>	<b>13.0</b>	<b>0.9</b>			

**Source:** Massachusetts Emergency Department Discharge Database, Center for Health Information and Analysis (CHIA)

\*All CHIA data sets are based on a fiscal year. The numbers provided here are based on fiscal year: October 1, 2011 - September 30, 2012. Counts of less than 11 and associated cells are suppressed due to CHIA confidentiality guidelines.

<sup>1</sup> Legal Intervention includes injuries resulting from police actions and operations of war.

<sup>2</sup> Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable and should be interpreted with caution. Rates provided here are not age-adjusted and may differ slightly from other department publications.

<sup>3</sup> Adverse Effects can be related to medical and surgical care procedures, or to the use of therapeutic substances (including allergic reactions).

<sup>4</sup> Totals do not include subcategory counts. Total percent is presented here as 100% but may be slightly less or more due to rounding.

—An emergency department injury case is defined as:

Cases having an ICD9-CM Nature of Injury Code of 800-909.2, 909.4, 909.9, 910-994.9, 995.5-995.59 or 995.80-995.85 in the principal diagnosis field OR an External-cause-of-injury code of E800-E869, E880-E929 or E950-E999 in any diagnosis field. Injury cause and intent are based on the first valid External-cause-of-injury code (E-code) as defined by the CDC. That is, injury activity (E000-E030) and injury place (E849) E-codes are never considered valid and the following E-codes are only considered valid if no other E-codes (besides injury activity or place) are present: E869.4 (second hand smoke), E870-E879 and E930-E949 (adverse effects of medical/surgical care) and E967.0-E967.9 (assault perpetrator).

—ED injury patients subsequently dying in the hospital are excluded from this analysis.

—Population data used to calculate rates are based on 2012 population estimates by the US Census Bureau. Estimated 2012 Massachusetts population is 6,645,303. Rates are per 100,000 residents.

—Categories and groupings are based on the CDC's "Recommended framework of E-code groupings for presenting injury mortality and morbidity data." This framework does not provide for intentionality for certain cause categories as indicated by gray shading.

—Injury subcategories are italicized.

—Data were extracted and compiled by the Injury Surveillance Program, Bureau of Community and Health Prevention, MDPH, October 2014