

Injury-related Emergency Dept. Visits

2008*

MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Crude Rate per 100,000 ²
	Unintentional	Intentional		Undetermined	Other & Legal ¹			
		Self-inflicted	Assault					
Cut/pierce	66,588	2,490	1,701	118	9	70,906	10.0	1,074.7
Drowning/submersion	123	<7	0	<7		126	0.0	1.9
Fall	186,056	17	26	49		186,148	26.2	2,821.3
Fire/burn	9,819	53	24	20		9,916	1.4	150.3
<i>Fire/flame</i>	1,536	48	7	13		1,604	0.2	24.3
<i>Hot object/substance</i>	8,283	<7	17	7		8,312	1.2	126.0
Firearm	143	<7	184	42	18	392	0.1	5.9
Machinery	3,636					3,636	0.5	55.1
Natural/Environmental	28,545	<7		8		28,554	4.0	432.8
<i>Dog bites</i>	6,598	0		0		6,598	0.9	100.0
<i>Other bites & stings</i>	19,369	0		0		19,369	2.7	293.6
<i>All other (e.g. extreme cold)</i>	2,578	<7		8		2,587	0.4	39.2
Overexertion	85,791					85,791	12.1	1,300.3
Poisoning	7,659	3,286	9	2,943	10	13,907	2.0	210.8
Struck by, against	102,128		12,772		492	115,392	16.3	1,748.9
Suffocation	445	93	35	6		579	0.1	8.8
Transport-related Injuries	80,926	<7	17	<7		80,950	11.4	1,226.9
<i>Motor vehicle traffic-related</i>	68,058	<7	17	<7		68,082	9.6	1,031.9
<i>Occupant</i>	56,658					56,658	8.0	858.7
<i>Motorcyclist</i>	2,381					2,381	0.3	36.1
<i>Pedal cyclist</i>	1,087					1,087	0.2	16.5
<i>Pedestrian</i>	3,379					3,379	0.5	51.2
<i>Other person</i>	216					216	0.0	3.3
<i>Unspecified</i>	4,337					4,337	0.6	65.7
<i>Pedal cyclist, other</i>	8,021					8,021	1.1	121.6
<i>Pedestrian, other</i>	400					400	0.1	6.1
<i>Transportation, other</i>	4,447					4,447	0.6	67.4
Other-specified & classifiable	33,342	13	2,525	42	10	35,932	5.1	544.6
<i>Human bites</i>	680		1,083			1,763	0.2	26.7
<i>Non-powder gun (BB, pellet)</i>	330	<7	64	34	0	434	0.1	6.6
<i>Other specified & classifiable</i>	32,332	7	1,378	8	10	33,735	4.8	511.3
Other specified, not classifiable	10,090	618	4,386	235	10	15,339	2.2	232.5
Unspecified	47,750	132	3,255	2,438	73	53,648	7.6	813.1
Adverse effects ³						1,138	0.2	17.2
Cause and Intent are not provided						6,883	1.0	104.3
TOTALS⁴	663,041	6,714	24,934	5,905	622	709,237	100	10,749.5
RATE BY INTENT/per 100,000	10,049.4	101.8	377.9	89.5	9.4			

Source: MA Emergency Department Discharge Database, MA Division of Health Care, Finance and Policy.

*All data sets from Health Care Finance and Policy are based on a fiscal year. The numbers provided here are based on fiscal year: October 1, 2007 - September 30, 2008 and will be different than numbers generated through the Department's query based system MassCHIP.

¹ Legal Intervention includes injuries resulting from police actions and operations of war.

² Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable. Rates provided here are not age-adjusted and may differ slightly from other department publications.

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

⁴ 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 discharge is defined as any case having an ICD9-CM Nature of Injury Code of 800-999 assigned to any of the ICD9 diagnosis fields [cases having the following codes are excluded if no other valid ICD9-CM code is assigned: Certain Adverse Effects (995.0-995.4, 995.6, 995.7, 995.86, 995.89), Complications of Surgical & Medical Care (996-999), and certain Late Effects (909.3, 909.5)]

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

—Only Massachusetts residents with valid MA zip codes are included in this analysis.

—Cases from two hospitals are excluded from the above cause and intent categories due to data quality issues.

—Population data used to calculate rates are based on the 2008 Census Estimates. Estimated 2007 Massachusetts population is 6,597,842

—Categories and groupings are based on a modified version of 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, Center for Health Information, Statistics, Research & Evaluation, MDPH, (July, 2009)