

Injury-related Emergency Dept. Visits

2002

MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Rate per 100,000 ²
	Unintentional	Intentional		Undetermined	Other & Legal ¹			
		Self-inflicted	Assault					
Cut/pierce	76,139	1,971	1,554	186	3	79,853	10.7	1,257.7
Drowning/submersion	158	3	1	5		167	< .1	2.6
Fall	171,124	22	28	73		171,247	22.9	2,697.2
Fire/burn	10,744	49	34	37		10,864	1.5	171.1
<i>Fire/flare</i>	1,701	47	10	22		1,780	0.2	28.0
<i>Hot object/substance</i>	9,043	2	24	15		9,084	1.2	143.1
Firearm	140	6	129	39	7	321	< .1	5.1
Machinery	4,553					4,553	0.6	71.7
Natural/Environmental	25,201	2		3		25,206	3.4	397.0
<i>Dog bites</i>	6,723	0		0		6,723	0.9	105.9
<i>Other bites & stings</i>	15,863	0		0		15,863	2.1	249.8
<i>All other (e.g. extreme cold)</i>	2,615	2		3		2,620	0.4	41.3
Overexertion	87,190					87,190	11.7	1,373.3
Poisoning	8,713	3,641	36	2,154	5	14,549	1.9	229.2
Struck by, against	104,711		15,414		389	120,514	16.1	1,898.1
Suffocation	615	59	27	4		705	0.1	11.1
Transport-related Injuries	113,126	9	21	4	0	113,160	15.1	1,782.3
<i>Motor vehicle traffic-related</i>	99,134					99,134	13.3	1,561.4
<i>Occupant</i>	86,914					86,914	11.6	1,368.9
<i>Motorcyclist</i>	2,493					2,493	0.3	39.3
<i>Pedal cyclist</i>	1,172					1,172	0.2	18.5
<i>Pedestrian</i>	3,827					3,827	0.5	60.3
<i>Unspecified person</i>	4,424					4,424	0.6	69.7
<i>Other person</i>	304					304	< .1	4.8
<i>Pedal cyclist, other</i>	8,525					8,525	1.1	134.3
<i>Pedestrian, other</i>	470					470	0.1	7.4
<i>Transportation, other</i>	4,997					4,997	0.7	78.7
Other-specified & classifiable	39,470	13	2,480	22	5	41,990	5.6	661.4
<i>Human bites</i>	596	0	1,118	0	0	1,714	0.2	27.0
<i>Non-powder gun (BB, pellet)</i>	251	4	41	19	0	315	< .1	5.0
<i>Other specified & classifiable</i>	38,623	9	1,321	3	5	39,961	5.3	629.4
Other specified, not classifiable	8,762	447	3,029	186	5	12,429	1.7	195.8
Unspecified	46,672	161	1,848	111	94	48,886	6.5	770.0
Adverse effects ³						1,358	0.2	21.4
No cause or intent provided						15,013	2.0	236.5
TOTALS	697,318	6,383	24,601	2,824	508	748,005	100%	11,781.3

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

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.

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

—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)]

—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.

—Analysis is based on a fiscal year (Oct 1, 2001- Sep 30, 2002).

—Only Massachusetts residents with valid zip codes (01001-02791, 05501, 05544) are included in this analysis.

—ED injury cases transferred to another facility, admitted to or subsequently dying in the hospital are excluded from this analysis.

—In 2001, a new statewide database, the MA Emergency Dept. Discharge Database was implemented to capture health data on persons treated in hospital emergency departments. The numbers presented here are from the first year of this database. Prior summaries (1999-2001) for ED injury cases were estimates based on a random sample of 11 hospital ED's that participated in a pilot project known as the Emergency Dept. Injury Surveillance System. Certain cause categories may not be comparable to prior years.

—Population data used to calculate rates are based on the US Census Bureau, Census 2000 P.L. 94-171 Redistricting File.

—Data were extracted and compiled by the Injury Surveillance Program, MDPH, December 2003.