

Traumatic Brain Injury—ED Visits

2003

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	325	2	76	1	1	405	1.1	6.3
Drowning/submersion	8	0	0	0		8	< .1	0.1
Fall	15,563	3	1	3		15,570	43.2	242.0
Fire/burn	111	0	0	0		111	0.3	1.7
<i>Fire/flare</i>	3	0	0	0		3	< .1	--
<i>Hot object/substance</i>	108	0	0	0		108	0.3	1.7
Firearm	3	0	7	0	0	10	< .1	0.2
Machinery	30					30	0.1	0.5
Natural/Environmental	58	0		0		58	0.2	0.9
<i>Dog bites</i>	13					13	< .1	0.2
<i>Other bites & stings</i>	10					10	< .1	0.2
<i>All other (e.g. extreme cold)</i>	35	0		0		35	0.1	0.5
Overexertion	74					74	0.2	1.2
Poisoning	33	5	1	9	0	48	0.1	0.7
Struck by, against	6,777		2,230		27	9,034	25.1	140.4
Suffocation	0	0	2	1		3	< .1	--
Transport-related Injuries	8,156	5	2	0	0	8,163	22.7	126.9
<i>Motor vehicle traffic-related</i>	7,043					7,043	19.6	109.5
<i>Occupant</i>	6,151					6,151	17.1	95.6
<i>Motorcyclist</i>	157					157	0.4	2.4
<i>Pedal cyclist</i>	120					120	0.3	1.9
<i>Pedestrian</i>	335					335	0.9	5.2
<i>Unspecified person</i>	258					258	0.7	4.0
<i>Other person</i>	22					22	0.1	0.3
<i>Pedal cyclist, other</i>	662					662	1.8	10.3
<i>Pedestrian, other</i>	23					23	0.1	0.4
<i>Transportation, other</i>	428					428	1.2	6.7
Other-specified & classifiable	168	0	106	2	1	277	0.8	4.3
<i>Human bites</i>	2		20			22	0.1	0.3
<i>Non-powder gun (BB, pellet)</i>	3	0	0	2	0	5	< .1	0.1
<i>Other specified & classifiable</i>	163	0	86	0	1	250	0.7	3.9
Other specified, not classifiable	104	13	539	5	1	662	1.8	10.3
Unspecified	640	2	307	21	4	974	2.7	15.1
Adverse effects ³						17	< .1	0.3
No cause or intent provided						569	1.6	8.8
TOTALS	32,050	30	3,271	42	34	36,013	100%	559.8
RATE BY INTENT/per 100,000	498.2	0.5	50.8	0.7	0.5			

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, 2002 - Sep 30, 2003).

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

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

—Population data used to calculate rates are based on 2003 population estimates generated by the US Census Bureau (www.census.gov/popest/states/asrh/files/SC-EST2003-race6-AL_MO.csv).

—Data were extracted and compiled by the Injury Surveillance Program, Center for Health Information, Statistics, Research and Evaluation, MDPH, Revised February 2005.