

Traumatic Brain Injury -- Hospital Discharges

2009

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	<7	<7	12	0	0	19	0.3	0.3
Drowning/submersion	<7	0	0	0		<7	0.0	--
Fall	3,689	8	<7	<7		3,701	62.3	56.1
Firearm	<7	<7	9	0	0	14	0.2	0.2
Machinery	<7					<7	0.1	--
Struck-by/against object	199		227		<7	428	7.2	6.5
Transport Injuries:	1,233	<7	<7	<7	0	1,238	20.8	18.8
<i>Motor vehicle traffic-related</i>	1,034	<7	<7	<7		1,039	17.5	15.8
<i>Occupant</i>	638					638	10.7	9.7
<i>Motorcyclist</i>	115					115	1.9	1.7
<i>Pedal Cyclist</i>	60					60	1.0	0.9
<i>Pedestrian</i>	203					203	3.4	3.1
<i>Other person</i>	<7					<7	0.0	--
<i>Unspecified person</i>	17					17	0.3	0.3
<i>Pedal cyclist, other</i>	102					102	1.7	1.5
<i>Pedestrian, other</i>	9					9	0.2	0.1
<i>Other transport</i>	88					88	1.5	1.3
All Other/Unspecified	153	16	101	15	<7	286	4.8	4.3
Adverse Effects ³						85	1.4	1.3
Cause/intent not provided						167	2.8	2.5
TOTALS⁴	5,284	33	352	20	<7	5,944	100.0	90.1
Rate by Intent / per 100,000	80.1	0.5	5.3	0.3	--			

Source: Massachusetts Hospital 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. 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.

—An injury hospitalization 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 (October 1, 2008 - September 30, 2009)

—Population data used to calculate rates are based on 2009 population estimates by the US Census Bureau. Estimated 2008 Massachusetts population is 6,593,587. Rates are per 100,000 residents.

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

—Injury hospitalization cases transferred to another acute care facility or subsequently dying in the hospital, are excluded from this analysis.

—Data were extracted and compiled by the Injury Surveillance Program, Bureau of Health Information, Statistics, Research and Evaluation, MDPH.

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