

Hospitalizations for work-related injuries among 18- to 24-year-olds

Massachusetts
2005 - 2009

Table 1. Summary of All Hospitalizations

N = Number of Hospitalizations

% = Percent of Hospitalizations

		All Hospitalizations		
		N	%	Hospitalizations per 10,000 FTEs
Total		512	100.0	3.6
Age	18	25	4.8	2.4
	19	50	9.8	4.3
	20	58	11.3	3.1
	21	75	14.6	3.9
	22	84	16.4	3.8
	23	105	20.5	3.6
	24	115	22.5	3.8
Gender	Male	450	87.9	5.8
	Female	62	12.1	1.0
Race & Ethnicity	White, non-Hispanic	337	69.1	2.9
	Hispanic	92	18.9	7.6
	Black, non-Hispanic	18	3.7	2.2
	Other	41	8.4	6.2
Year of Hospitalization	2005	134	26.2	4.8
	2006	105	20.5	3.7
	2007	107	20.1	3.7
	2008	92	18.0	3.2
	2009	74	14.5	2.6

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Source: Hospital Discharge Data, for 1 Jan 2005 through 31 Dec 2009, Massachusetts Center for Health Information and Analysis.

Counts not shown and rates not calculated for cells with less than 7 cases based on the CHIA rules pertaining to confidentiality. Rates based on counts less than 20 may be unstable.

Numbers may not add to total due to missing information.

A hospitalization for an injury is defined as any case having an ICD-9-CM Nature of Injury Code of 800-999 in the primary diagnosis field.

Attribution of work-relatedness is based on designation of Workers' Compensation Insurance as expected payer.

Injuries per 10,000 FTE calculated as number of injury / FTE*10,000; FTEs=total hours per year / 2000.

Total hours worked for Massachusetts residents obtained from Current Population Survey, Bureau of Labor Statistics, Jan 2005 through Dec 2009.

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		All Hospitalizations		
		N	%	Hospitalizations per 10,000 FTEs
Nature of Injury	Fractures	230	47.1	1.6
	Open wounds	67	13.7	0.5
	Internal organ	48	9.4	0.3
	Burns	37	7.6	0.3
	Crushing	29	5.9	0.2
	Amputations	17	3.5	0.1
	Other ^a	56	10.9	0.4
	Unspecified & Missing	28	5.5	0.2
External Cause of Injury	Falls	153	29.9	1.1
	Machinery	71	13.9	0.5
	Motor vehicle traffic	52	10.2	0.4
	Struck by/against	52	10.2	0.4
	Cut/pierce	48	9.4	0.3
	Fire/burn	25	4.9	0.2
	Natural/environment	9	1.8	0.1
	Overexertion	7	1.4	<0.1
	Other transportation	14	2.7	0.1
	Other ^b	47	9.2	0.3
	Unspecified & Missing	34	6.6	0.2

(a) Other includes sprains, superficial/contusions, dislocations, blood vessels, nerve injuries, and system wide and late effects.

(b) Other includes other specified, firearm, poisonings, and not elsewhere classified.

Nature of Injury and Body Region groupings are based on Barell Injury Matrix, Barell et al., *Inj Prev*, 2002 Jun;8(2):91-96

External Cause of Injury groupings are based on 'ICD-9 Framework for Presenting Injury Mortality Data,' MMWR Recommendations and Reports, August 29, 1997, Volume 46/NORR-14.

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Table 2. Nature of Injury by Gender and Race & Ethnicity

N = Number of Hospitalizations

% = Percent of Hospitalizations

		Gender				Race & Ethnicity							
		Males		Females		White, non-Hispanic		Hispanic		Black, non-Hispanic		Other	
		N	%	N	%	N	%	N	%	N	%	N	%
Total		428	100	60	100	337	100	92	100	18	100	41	100
Nature of Injury	Fractures	210	49.1	20	33.3	157	49.4	40	44.4	7	38.9	16	40
	Internal organ	45	10.5	<7	-	26	8.2	12	13.3	<7	-	7	17.5
	Open wounds	54	12.6	13	21.7	39	12.3	14	15.6	<7	-	8	20
	Amputations	14	3.3	<7	-	10	3.1	<7	-	<7	-	<7	-
	Crushing	25	5.8	<7	-	19	6.0	7	7.8	<7	-	<7	-
	Burns	25	5.8	12	20.0	27	8.5	<7	-	<7	-	<7	-
	Other^a	52	11.6	<7	-	37	11.0	8	8.7	<7	-	<7	-
	Unspecified & Missing	25	5.6	<7	-	22	6.5	<7	-	<7	-	<7	-

Source: Hospital Discharge Data, for 1 Jan 2005 through 31 Dec 2009, Massachusetts Center for Health Information and Analysis

a) Other includes sprains, superficial/contusions, dislocations, blood vessels, nerve injuries, and system wide and late effects.

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Table 3. Nature of Injury by Age

N = Number of Hospitalizations
% = Percent of Hospitalizations

		Age													
		18		19		20		21		22		23		24	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
Total		25	100	50	100	58	100	75	100	84	100	105	100	115	100
Nature of Injury	Fractures	7	30.4	28	57.1	21	36.8	36	50.0	38	48.1	49	50.0	51	46.4
	Internal organ	b	b	b	b	b	b	b	b	10	12.7	13	13.3	10	9.1
	Open wounds	b	b	b	b	14	24.6	12	16.7	11	13.9	b	b	16	14.5
	Amputations	b	b	b	b	b	b	b	b	b	b	b	b	b	b
	Crushing	b	b	b	b	b	b	b	b	b	b	b	b	b	b
	Burns	b	b	b	b	7	12.3	b	b	b	b	9	9.2	7	6.4
	Other ^a	b	b	b	b	b	b	9	12.7	8	10.1	12	12.2	17	15.7
	Unspecified & Missing	b	b	b	b	b	b	b	b	b	b	7	7.1	7	6.5

Source: Hospital Discharge Data, for 1 Jan 2005 through 31 Dec 2009, Massachusetts Center for Health Information and Analysis.

a) Other includes sprains, superficial/contusions, dislocations, blood vessels, nerve injuries, and system wide and late effects.

b) Counts not shown for cells with less than 7 cases based on the CHIA rules pertaining to confidentiality.

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Nature of Injury and Body Region groupings are based on Barell Injury Matrix, Barell et al., *Inj Prev*, 2002 Jun;8(2):91-96.

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Table 4. Nature of Injury by Body Part

N = Number of Hospitalizations
% = Percent of Hospitalizations

	Total	Hospitalizations	
		N	%
	512	100	
Fractures	230	45.0	
Extremities	159	69.1	
Head & neck	37	16.0	
Spine & back	23	10.0	
Torso	11	4.8	
Open wounds	67	13.1	
Extremities	46	68.7	
Head & neck	16	23.9	
Internal Organ	48	9.4	
Torso	30	62.5	
Head & neck	18	37.5	
Burns	37	7.2	
Extremities	26	70.3	
Crushing	29	5.7	
Extremities	27	93.1	
Amputations	17	3.3	
Extremities	17	100	
Other	41	8.0	
Extremities	22	53.7	
Spine & back	8	19.5	
Unspecified & Missing	48	9.4	

Source: Hospital Discharge Data, for 1 Jan 2005 through 31 Dec 2009, Massachusetts Center for Health Information and Analysis.

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Table 5: External Cause of Injury

N = Number of Hospitalizations
% = Percent of Hospitalizations

		Hospitalizations	
		N	%
Total		512	100
External Cause of Injury	Falls	153	29.9
	Fall to lower level	39	25.5
	Fall from ladder	38	24.8
	Fall from building	26	17.0
	Fall to same level	18	11.8
	Fall from stairs	7	4.6
	Other falls	22	14.4
	Machinery	71	13.9
	Motor vehicle traffic	52	10.2
	Driver/passenger motor vehicle	35	67.3
	Pedestrian	7	13.5
	Struck by/against	52	10.2
	Cut/pierce	48	9.4
	Fire/burn	25	4.8
	Burn	17	69.0
	Fire	8	32.0
	Natural/environmental	9	1.8
	Overexertion	7	1.4
	Other transportation	14	2.7
	Other^a	47	9.2
Unspecified & Missing	34	6.6	

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(a) Other includes other specified, firearm, poisonings, and not elsewhere classified.

External Cause of Injury groupings are based on 'ICD-9 Framework for Presenting Injury Mortality Data,' MMWR Recommendations and Reports, August 29, 1997, Volume 46/NORR-14.

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Table 6. Hospitalizations Distributed by Month

N = Number of Hospitalizations

% = Percent of Hospitalizations

		Hospitalizations	
		N	%
Month of Injury	January	41	8.0
	February	45	8.8
	March	39	7.6
	April	39	7.6
	May	37	7.2
	June	48	9.4
	July	53	10.4
	August	40	7.8
	September	42	8.2
	October	40	7.8
	November	45	8.8
	December	43	8.4

Source: Hospital Discharge Data, for 1 Jan 2005 through 31 Dec 2009, Massachusetts Center for Health Information and Analysis.

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