### Table 1. Summary of All ED Visits

N = Number of Visit

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| % = Percent of Visits | |  | **All Visits** | | | |
|  | |  | N | % | Visits per 10,000 FTEs | 95% CI |
| **Total** | | | **36,696** | **100** | **276.6** | **274-279** |
| **Age** | **18** | | 2,553 | 7.0 | 302.2 | 291-314 |
| **19** | | 4,142 | 11.3 | 375.7 | 364-387 |
| **20** | | 5,013 | 13.7 | 298.9 | 291-307 |
| **21** | | 5,465 | 14.9 | 313.4 | 305-322 |
| **22** | | 6,232 | 17.0 | 294.8 | 288-302 |
| **23** | | 6,590 | 18.0 | 249.3 | 243-255 |
| **24** | | 6,701 | 18.3 | 213.3 | 208-218 |
| ***Gender+*** | **Male** | | 23,636 | 64.4 | 378.5 | 374-383 |
| **Female** | | 13,060 | 35.6 | 186.0 | 183-189 |
| ***Race & Ethnicity+*** | **White only, non-Hispanic** | | 27,595 | 75.2 | 275.3 | 272-278 |
| **Hispanic** | | 4,931 | 13.4 | 287.3 | 279-295 |
| **Black only, non-Hispanic** | | 2,246 | 6.1 | 301.2 | 289-314 |
| **Asian only, non-Hispanic** | | 503 | 1.4 | 85.2 | 78-93 |
| **Multi-racial** | | 287 | 0.8 | 75.4 | 67-84 |
| **Year of Hospital Visit** | **2009** | | 7,795 | 21.2 | 278.1 | 272-284 |
| **2010** | | 7,724 | 21.0 | 313.3 | 306-320 |
| **2011** | | 7,545 | 20.6 | 292.5 | 286-299 |
| **2012** | | 7,127 | 19.4 | 260.1 | 254-266 |
| **2013** | | 6,505 | 17.7 | 242.7 | 237-249 |

### (continued on next page)

### Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis.

### Counts not shown and rates not calculated for cells with less than 11 cases based on the CHIA rules pertaining to confidentiality.

### Numbers may not add to total due to missing information. Percentages may not add to 100 due to rounding error.

### An ED visit 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 2009 through Dec 2013.

### +Difference is significant based on 95% confidence intervals; however, the standard error of the denominator was not taken into account when calculating confidence intervals.

### Table 1. Summary of All ED Visits

(continued from previous page)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **All Visits** | | | |
|  |  | N | % | Visits per 10,000 FTEs | 95% CI |
| **Nature of Injury** | **Open wounds** | 14,660 | 39.9 | 110.5 | 109-112 |
| **Sprains** | 6,982 | 19.0 | 52.6 | 51-54 |
| **Superficial/Contusions** | 6,555 | 17.9 | 49.4 | 48-51 |
| **Burns** | 2,032 | 5.5 | 15.3 | 15-16 |
| **Fractures** | 1,462 | 4.0 | 11.0 | 11-12 |
| **Internal organ** | 560 | 1.5 | 4.2 | 4-5 |
| **Crushing** | 475 | 1.3 | 3.6 | 3-4 |
| **Dislocations** | 261 | 0.7 | 2.0 | 1.7-2.2 |
| **Amputations** | 160 | 0.4 | 1.2 | 1.0-1.4 |
| **Other a** | 1,288 | 3.5 | 9.7 | 9-10 |
| **Unspecified & Missing** | 2,261 | 6.2 | 17.0 | 16-18 |
| **External Cause of Injury** | **Cut/pierce** | 11,081 | 30.2 | 83.5 | 82-85 |
| **Struck by/against** | 6,190 | 16.9 | 46.7 | 46-48 |
| **Overexertion** | 4,295 | 11.7 | 32.4 | 31-33 |
| **Falls** | 3,471 | 9.5 | 26.2 | 25-27 |
| **Fire/burn** | 2,004 | 5.5 | 15.1 | 14-16 |
| **Machinery** | 1,169 | 3.2 | 8.8 | 8-9 |
| **Motor vehicle** | 876 | 2.4 | 6.6 | 6-7 |
| **Natural/environmental** | 851 | 2.3 | 6.4 | 6-7 |
| **Poisoning** | 154 | 0.4 | 1.2 | 1.0-1.3 |
| **Other transportation** | 116 | 0.3 | 0.9 | 0.7-1.0 |
| **Other b** | 4,180 | 11.4 | 31.5 | 31-33 |
| **Unspecified & Missing** | 2,309 | 6.3 | 17.4 | 17-18 |

### (a) Other includes blood vessel injuries, nerve injuries, and system wide and late effect injuries.

### (b) Other includes drowning, suffocation, firearm, other specified, and not elsewhere specified.

### 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.

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

N = Number of Visits

% = Percent of Visits

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Gender** | | | | **Race & Ethnicity** | | | | | | | |
|  |  | **Males** | | **Females** | | **White**  **non-Hispanic** | | **Hispanic** | | **Black**  **non-Hispanic** | | **Other,**  **non-Hispanic** | |
|  |  | N | % | N | % | N | % | N | % | N | % | N | % |
|  | **Total** | **23,636** | **100** | **13,060** | **100** | **27,595** | **100** | **4,931** | **100** | **2,246** | **100** | **824** | **100** |
| **Nature of Injury** | **Open wounds** | 10,569 | 44.7 | 4,091 | 31.3 | 11,159 | 40.4 | 2,003 | 40.6 | 726 | 32.3 | 332 | 40.3 |
| **Sprains** | 3,901 | 16.5 | 3,081 | 23.6 | 5,157 | 18.7 | 957 | 19.4 | 555 | 24.7 | 130 | 15.8 |
| **Superficial/**  **contusions** | 3,804 | 16.1 | 2,751 | 21.1 | 4,888 | 17.7 | 821 | 16.6 | 484 | 21.5 | 155 | 18.8 |
| **Burns** | 1,091 | 4.6 | 941 | 7.2 | 1,471 | 5.3 | 328 | 6.7 | 116 | 5.2 | 48 | 5.8 |
| **Fractures** | 1,074 | 4.5 | 388 | 3.0 | 1,103 | 4.0 | 219 | 4.4 | 62 | 2.8 | 31 | 3.8 |
| **Crushing** | 368 | 1.6 | 107 | 0.8 | 346 | 1.3 | 71 | 1.4 | 32 | 1.4 | 14 | 1.7 |
| **Internal organ** | 306 | 1.3 | 254 | 1.9 | 471 | 1.7 | 47 | 1.0 | 24 | 1.1 | 11 | 1.3 |
| **Dislocations** | 191 | 0.8 | 70 | 0.5 | 194 | 0.7 | 27 | 0.5 | 21 | 0.9 | 11 | 1.3 |
| **Amputations** | 139 | 0.6 | 21 | 0.2 | 97 | 0.4 | 38 | 0.8 | 12 | 0.5 | b |  |
| **Othera** | 972 | 4.1 | 316 | 2.4 | 1,032 | 3.7 | 123 | 2.5 | 48 | 2.1 | 31 | 3.8 |
| **Unspecified & Missing** | 1,221 | 5.2 | 1,040 | 8.0 | 1,677 | 6.1 | 297 | 6.0 | 166 | 7.4 | b |  |

### Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis.

### (a) Other includes blood vessel injuries, nerve injuries, and system wide and late effect injuries.

### (b) Counts not shown for cells with less than 11 cases based on the CHIA rules pertaining to confidentiality. Numbers may not add to total due to missing information.

### An ED visit 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.

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

### Table 3. Nature of Injury by Age

N = Number of Visits

% = Percent of Visits

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Age** | | | | | | | | | | | | | |
|  |  | **18** | | **19** | | **20** | | **21** | | **22** | | **23** | | **24** | |
|  |  | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
|  | **Total** | **2,553** | **100** | **4,142** | **100** | **5,013** | **100** | **5,465** | **100** | **6,232** | **100** | **6,590** | **100** | **6,701** | **100** |
| **Nature of Injury** | **Open Wounds** | 1,237 | 48.5 | 1,881 | 45.4 | 2,168 | 43.2 | 2,142 | 39.2 | 2,394 | 38.4 | 2,451 | 37.2 | 2,387 | 35.6 |
| **Sprains** | 322 | 12.6 | 663 | 16.0 | 886 | 17.7 | 1,057 | 19.3 | 1,217 | 19.5 | 1,388 | 21.1 | 1,449 | 21.6 |
| **Superficial/**  **Contusions** | 400 | 15.7 | 652 | 15.7 | 816 | 16.3 | 998 | 18.3 | 1,165 | 18.7 | 1,238 | 18.8 | 1,286 | 19.2 |
| **Burns** | 210 | 8.2 | 316 | 7.6 | 310 | 6.2 | 298 | 5.5 | 333 | 5.3 | 278 | 4.2 | 287 | 4.3 |
| **Fractures** | 85 | 3.3 | 145 | 3.5 | 199 | 4.0 | 203 | 3.7 | 248 | 4.0 | 278 | 4.2 | 304 | 4.5 |
| **Crushing** | 24 | 0.9 | 55 | 1.3 | 71 | 1.4 | 71 | 1.3 | 92 | 1.5 | 80 | 1.2 | 82 | 1.2 |
| **Internal Organ** | 51 | 2.0 | 60 | 1.4 | 82 | 1.6 | 75 | 1.4 | 93 | 1.5 | 102 | 1.5 | 97 | 1.4 |
| **Dislocations** | 16 | 0.6 | 30 | 0.7 | 30 | 0.6 | 44 | 0.8 | 43 | 0.7 | 45 | 0.7 | 53 | 0.8 |
| **Amputations** | 19 | 0.7 | 12 | 0.3 | 26 | 0.5 | 29 | 0.5 | 22 | 0.4 | 27 | 0.4 | 25 | 0.4 |
| **Other a** | 73 | 2.9 | 122 | 2.9 | 146 | 2.9 | 208 | 3.8 | 224 | 3.6 | 254 | 3.9 | 261 | 3.9 |
| **Unspecified & Missing** | 116 | 4.5 | 206 | 5.0 | 279 | 5.6 | 340 | 6.2 | 401 | 6.4 | 449 | 6.8 | 470 | 7.0 |

### Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis.

### (a) Other includes blood vessel injuries, nerve injuries, and system wide and late effect injuries.

### Counts not shown for cells with less than 11 cases based on the CHIA rules pertaining to confidentiality. Numbers may not add to total due to missing information.

### An ED visit 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.

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

**Table 4. Nature of Injury by Body Part**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N = Number of Visits  % = Percent of Visits |  |  | **Visits** | |
|  |  |  | N | % |
|  |  | **Total** | **36,696** | **100** |
| **Nature of Injury**  by Body Region | **Open Wounds** | | **14,660** | **39.9** |
| Extremities | | 13,390 | 91.3 |
| Head & neck | | 1,191 | 8.1 |
| **Sprains** | | **6,982** | **19.0** |
| Extremities | | 3,982 | 57.0 |
| Spine & Back | | 2,071 | 29.7 |
| Torso | | 752 | 10.8 |
| **Superficial/contusions** | | **6,555** | **17.9** |
| Extremities | | 4,235 | 64.6 |
| Head & neck | | 1,552 | 23.7 |
| Torso | | 657 | 10.0 |
| **Burns** | | **2,032** | **5.5** |
| Extremities | | 1,665 | 81.9 |
| Head & neck | | 287 | 14.1 |
| Torso | | 65 | 3.2 |
| **Fractures** | | **1,462** | **4.0** |
| Extremities | | 1,326 | 90.7 |
| Head & neck | | 87 | 6.0 |
| **Internal Organ** | | **560** | **1.5** |
| Head & neck\* | | 552 | 98.6 |
| **Crushing** | | **475** | **1.3** |
| Extremities | | 473 | 99.6 |
| **Dislocations** | | **261** | **0.7** |
| Extremities | | 258 | 98.9 |
| **Amputations** | | **160** | **0.4** |
| Extremities | | 160 | 100 |
| **Other a** | | **1,288** | **3.5** |
| **Unspecified & Missing** | | **2,261** | **6.2** |
| Extremities | | 945 | 41.8 |
| Head & neck | | 1,026 | 45.4 |
| Torso | | 138 | 6.1 |

Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis

### (a) Other includes blood vessel injuries and nerve injuries, system wide and late effect injuries.

### \* 540 of these injuries are concussions.

### Counts not shown for cells with less than 11 cases based on CHIA rules pertaining to confidentiality. Numbers may not add to total due to missing information. Not all subcategories shown for each nature of injury category.

### An ED visit 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.

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

Table 5. External Cause of Injury

N = Number of Visits

% = Percent of Visits

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | **Visits** | |
|  |  |  | N | % |
|  |  | **Total** | **36,696** | **100** |
| **External Cause**  **of Injury** | **Cut/pierce** | | **11,081** | **30.2** |
| **Struck by/against** | | **6,190** | **16.9** |
| **Overexertion** | | **4,295** | **11.7** |
| **Falls** | | **3,471** | **9.5** |
| Fall to same level | | 1,634 | 47.1 |
| Fall from stairs | | 316 | 9.1 |
| Fall from ladder | | 263 | 7.6 |
| Fall to lower level | | 231 | 6.7 |
| Fall into opening | | 29 | 0.8 |
| Fall from building | | 21 | 0.6 |
| Fall to same level w/person | | 10 | 0.3 |
| Other falls | | 967 | 27.9 |
| **Fire/burn** | | **2,004** | **5.5** |
| Burn | | 1,889 | 94.3 |
| Fire | | 115 | 5.7 |
| **Machinery** | | **1,169** | **3.2** |
| **Motor vehicle** | | **876** | **2.4** |
| Driver/passenger motor vehicle | | 720 | 82.2 |
| Pedestrian | | 72 | 8.2 |
| Unspecified Person | | 59 | 6.7 |
| **Natural/environmental** | | **851** | **2.3** |
| Sting, non-poisonous | | 611 | 71.8 |
| Sting, poisonous | | 142 | 16.7 |
| **Poisoning** | | **154** | **0.4** |
| **Other Transportation** | | **116** | **0.3** |
| Other transportation | | 86 | 74.1 |
| Pedestrian, non motor vehicle | | 18 | 15.5 |
| Pedal cyclist, non motor vehicle | | 12 | 10.3 |
| **Other a** | | **4,180** | **11.4** |
| **Unspecified & Missing** | | **2,309** | **6.3** |

Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis.

### (a) Other includes drowning, suffocation, firearm, other specified, and not elsewhere specified

### Counts not shown cells with less than 11 cases based on the CHIA rules pertaining to confidentiality. Numbers may not add to total due to missing information. Not all subcategories shown for each nature of injury category.

### An ED visit 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.

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.

**Table 6. Visits Distributed by Month**

N = Number of Visits

% = Percent of Visits

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Visits** | |
|  |  | N | % |
|  | **Total** | **36,696** | **100** |
| **Month**  **of Injury** | **January** | 2,639 | 7.2 |
| **February** | 2,417 | 6.6 |
| **March** | 2,649 | 7.2 |
| **April** | 2,751 | 7.5 |
| **May** | 3,152 | 8.6 |
| **June** | 3,563 | 9.7 |
| **July** | 4,011 | 10.9 |
| **August** | 3,886 | 10.6 |
| **September** | 3,143 | 8.6 |
| **October** | 3,158 | 8.6 |
| **November** | 2,754 | 7.5 |
| **December** | 2,573 | 7.0 |

Source: Emergency Discharge Data, for 1 Jan 2009 through 31 Dec 2013, Massachusetts Center for Health Information and Analysis.

Counts not shown for cells with less than 11 cases based on the CHIA rules pertaining to confidentiality.

### An ED visit 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.