### Table 1. Summary of All ED Visits

N = Number of Visits

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| % = Percent of Visits | |  | **All Visits** | | | |
|  | |  | N | % | Visits per 10,000 FTEs | 95% CI |
| **Total** | | | **44,023** | **100** | **324.5** | **322-328** |
| **Age** | **18** | | 3,428 | 7.8 | 341.6 | 330-353 |
| **19** | | 5,216 | 11.8 | 475.2 | 463-488 |
| **20** | | 6,227 | 14.1 | 382.0 | 373-392 |
| **21** | | 6,616 | 15.0 | 362.9 | 354-372 |
| **22** | | 7,281 | 16.5 | 326.5 | 320-334 |
| **23** | | 7,612 | 17.3 | 269.2 | 263-275 |
| **24** | | 7,643 | 17.4 | 258.8 | 253-265 |
| **Gender+** | **Male** | | 29,027 | 65.9 | 458.6 | 454-464 |
| **Female** | | 14,995 | 34.1 | 207.2 | 204-211 |
| **Race & Ethnicity** | **White, non-Hispanic** | | 34,215 | 77.7 | 317.8 | 314-321 |
| **Hispanic** | | 4,879 | 11.1 | 347.8 | 338-358 |
| **Black, non-Hispanic** | | 2,504 | 5.7 | 301.6 | 290-313 |
| **Other** | | 1,740 | 4.0 | 281.3 | 268-295 |
| **Year of Hospital Visit+** | **2007** | | 11,225 | 25.5 | 390.1 | 383-397 |
| **2008** | | 9,734 | 22.1 | 342.8 | 336-350 |
| **2009** | | 7,795 | 17.7 | 278.1 | 272-284 |
| **2010** | | 7,724 | 17.5 | 313.3 | 306-320 |
| **2011** | | 7,545 | 17.1 | 292.5 | 286-299 |

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### (continued on next page)

### Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, 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.

### 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 2007 through Dec 2011.

### +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** | 16,859 | 38.3 | 124.3 | 122-126 |
| **Sprains** | 9,234 | 21.0 | 68.1 | 67-70 |
| **Superficial/Contusions** | 8,202 | 18.6 | 60.5 | 59-62 |
| **Burns** | 2,203 | 5.0 | 16.2 | 15-17 |
| **Fractures** | 1,800 | 4.1 | 13.3 | 12-14 |
| **Crushing** | 568 | 1.3 | 4.2 | 3-5 |
| **Internal organ** | 494 | 1.1 | 3.6 | 3-4 |
| **Dislocations** | 310 | 0.7 | 2.3 | 2-3 |
| **Amputations** | 172 | 0.4 | 1.3 | 1-2 |
| **Other a** | 1,739 | 4.0 | 12.8 | 12-13 |
| **Unspecified & Missing** | 2,442 | 5.5 | 18.0 | 17-19 |
| **External Cause of Injury** | **Cut/pierce** | 12,822 | 29.1 | 94.5 | 93-96 |
| **Struck by/against** | 7,278 | 16.5 | 53.7 | 52-55 |
| **Overexertion** | 6,001 | 13.6 | 44.2 | 43-45 |
| **Falls** | 4,460 | 10.1 | 32.9 | 32-34 |
| **Fire/burn** | 2,225 | 5.1 | 16.4 | 16-17 |
| **Machinery** | 1,490 | 3.4 | 11.0 | 10-12 |
| **Motor vehicle** | 1,032 | 2.3 | 7.6 | 7-8 |
| **Natural/environmental** | 1,028 | 2.3 | 7.6 | 7-8 |
| **Poisoning** | 236 | 0.5 | 1.7 | 1.5-2 |
| **Other transportation** | 148 | 0.3 | 0.8 | 0.6-0.9 |
| **Other b** | 5,063 | 11.5 | 37.3 | 36-38 |
| **Unspecified & Missing** | 2,240 | 5.1 | 16.5 | 16-17 |

### (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** | |
|  |  | N | % | N | % | N | % | N | % | N | % | N | % |
|  | **Total** | **29,027** | **65.9** | **14,995** | **34.1** | **34,215** | **77.7** | **4,879** | **11.1** | **2,504** | **5.7** | **1,740** | **4.0** |
| **Nature of Injury** | **Open wounds** | 12,311 | 42.4 | 4,548 | 30.3 | 13,265 | 38.8 | 1,868 | 38.3 | 764 | 30.5 | 697 | 40.1 |
| **Sprains** | 5,324 | 18.3 | 3,910 | 26.1 | 7,080 | 20.7 | 1,075 | 22.0 | 637 | 25.4 | 325 | 18.7 |
| **Superficial/**  **contusions** | 4,936 | 17.0 | 3,265 | 21.8 | 6,320 | 18.5 | 830 | 17.0 | 578 | 23.1 | 339 | 19.5 |
| **Burns** | 1,191 | 4.1 | 1,012 | 6.7 | 1,674 | 4.9 | 293 | 6.0 | 115 | 4.6 | 86 | 4.9 |
| **Fractures** | 1,372 | 4.7 | 428 | 2.9 | 1,377 | 4.0 | 242 | 5.0 | 80 | 3.2 | 71 | 4.1 |
| **Crushing** | 450 | 1.6 | 118 | 0.8 | 416 | 1.2 | 85 | 1.7 | 30 | 1.2 | 27 | 1.6 |
| **Internal organ** | 292 | 1.0 | 202 | 1.3 | 423 | 1.2 | 36 | 0.7 | 14 | 0.6 | 13 | 0.7 |
| **Dislocations** | 226 | 0.8 | 84 | 0.6 | 247 | 0.7 | 20 | 0.4 | 24 | 1.0 | 12 | 0.7 |
| **Amputations** | 143 | 0.5 | 29 | 0.2 | 104 | 0.3 | 37 | 0.8 | 15 | 0.6 | 15 | 0.9 |
| **Other a** | 1,358 | 4.7 | 381 | 2.5 | 1,450 | 4.2 | 128 | 2.6 | 65 | 2.6 | 63 | 3.6 |
| **Unspecified & Missing** | 1,424 | 4.9 | 1,018 | 6.8 | 1,859 | 5.4 | 265 | 5.4 | 182 | 7.1 | 92 | 5.3 |

### Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, 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 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** | **3,428** | **7.8** | **5,216** | **11.8** | **6,227** | **14.1** | **6,616** | **15.0** | **7,281** | **16.5** | **7,612** | **17.3** | **7,643** | **17.4** |
| **Nature of Injury** | **Open Wounds** | 1,645 | 48.0 | 2,265 | 43.4 | 2,526 | 40.6 | 2,482 | 37.5 | 2,641 | 36.3 | 2,666 | 35.0 | 2,634 | 34.5 |
| **Sprains** | 475 | 13.9 | 931 | 17.8 | 1,222 | 19.6 | 1,408 | 21.3 | 1,613 | 22.2 | 1,772 | 23.3 | 1,813 | 23.7 |
| **Superficial/**  **Contusions** | 552 | 16.1 | 878 | 16.8 | 1,144 | 18.4 | 1,264 | 19.1 | 1,359 | 18.7 | 1,507 | 19.8 | 1,498 | 19.6 |
| **Burns** | 252 | 7.4 | 339 | 6.5 | 336 | 5.4 | 321 | 4.9 | 356 | 4.9 | 298 | 3.9 | 301 | 3.9 |
| **Fractures** | 123 | 3.6 | 207 | 4.0 | 246 | 4.0 | 258 | 3.9 | 292 | 4.0 | 320 | 4.2 | 354 | 4.6 |
| **Crushing** | 42 | 1.2 | 61 | 1.2 | 100 | 1.6 | 90 | 1.4 | 107 | 1.5 | 82 | 1.1 | 86 | 1.1 |
| **Internal Organ** | 57 | 1.7 | 52 | 1.0 | 63 | 1.0 | 78 | 1.2 | 96 | 1.3 | 76 | 1.0 | 72 | 0.9 |
| **Dislocations** | 18 | 0.5 | 35 | 0.7 | 37 | 0.6 | 49 | 0.7 | 54 | 0.7 | 57 | 0.7 | 60 | 0.8 |
| **Amputations** | 23 | 0.7 | 15 | 0.3 | 24 | 0.4 | 30 | 0.5 | 34 | 0.5 | 22 | 0.3 | 24 | 0.3 |
| **Other a** | 98 | 2.9 | 183 | 3.5 | 209 | 3.4 | 277 | 4.2 | 282 | 3.9 | 346 | 4.5 | 344 | 4.5 |
| **Unspecified & Missing** | 143 | 4.2 | 250 | 4.8 | 320 | 5.1 | 359 | 5.4 | 447 | 6.1 | 466 | 6.1 | 457 | 6.0 |

### Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, 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** | **44,023** | **100** |
| **Nature of Injury**  by Body Region | **Open Wounds** | | **16,859** | **38.3** |
| Extremities | | 15,369 | 91.1 |
| Head & neck | | 1,414 | 8.4 |
| **Sprains** | | **9,234** | **21.0** |
| Extremities | | 5,096 | 55.2 |
| Spine & Back | | 3,020 | 32.7 |
| Torso | | 883 | 9.6 |
| **Superficial/contusions** | | **8,202** | **18.6** |
| Extremities | | 5,366 | 65.4 |
| Head & neck | | 1,910 | 23.3 |
| Torso | | 802 | 9.8 |
| **Burns** | | **2,203** | **5.0** |
| Extremities | | 1,806 | 82.0 |
| Head & neck | | 303 | 13.8 |
| Torso | | 79 | 3.4 |
| **Fractures** | | **1,800** | **4.1** |
| Extremities | | 1,627 | 90.4 |
| Head & neck | | 108 | 6.0 |
| **Other a** | | **1,739** | **4.0** |
| **Crushing** | | **568** | **1.3** |
| Extremities | | 566 | 99.6 |
| **Internal Organ** | | **494** | **1.1** |
| Head & neck\* | | 487 | 98.6 |
| **Dislocations** | | **310** | **0.7** |
| Extremities | | 308 | 99.4 |
| **Amputations** | | **172** | **0.4** |
| Extremities | | 172 | 100 |
| **Unspecified & Missing** | | **2,442** | **5.5** |
| Extremities | | 1,134 | 46.4 |
| Head & neck | | 968 | 39.6 |
| Torso | | 165 | 6.8 |

Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, Massachusetts Center for Health Information and Analysis

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

### \* 472 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.

### 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** | **44,023** | **100** |
| **External Cause**  **of Injury** | **Cut/pierce** | | **12,822** | **29.1** |
| **Struck by/against** | | **7,278** | **16.5** |
| **Overexertion** | | **6,001** | **13.6** |
| **Falls** | | **4,460** | **10.1** |
| Fall to same level | | 1,977 | 44.3 |
| Fall to lower level | | 369 | 8.3 |
| Fall from stairs | | 399 | 8.9 |
| Fall from ladder | | 332 | 7.4 |
| Fall from building | | 34 | 0.8 |
| Fall into opening | | 34 | 0.8 |
| Fall to same level w/person | | 13 | 0.3 |
| Other falls | | 1,302 | 29.2 |
| **Fire/burn** | | **2,225** | **5.1** |
| Burn | | 2,076 | 93.3 |
| Fire | | 149 | 6.7 |
| **Machinery** | | **1,490** | **3.4** |
| **Motor vehicle** | | **1,032** | **2.3** |
| Driver/passenger motor vehicle | | 846 | 82.0 |
| Pedestrian | | 80 | 7.8 |
| Unspecified Person | | 77 | 7.5 |
| **Natural/environmental** | | **1,028** | **2.3** |
| Sting, non-poisonous | | 724 | 70.4 |
| Sting, poisonous | | 195 | 19.0 |
| **Poisoning** | | **236** | **0.5** |
| **Other Transportation** | | **148** | **0.3** |
| Other transportation | | 108 | 73.0 |
| Pedestrian, non motor vehicle | | 22 | 14.9 |
| Pedal cyclist, non motor vehicle | | 18 | 12.2 |
| **Other a** | | **5,063** | **11.5** |
| **Unspecified & Missing** | | **2,240** | **5.1** |

Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, 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.

### 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 | % |
| **Month**  **of Injury** | **January** | 3,269 | 7.4 |
| **February** | 2,914 | 6.6 |
| **March** | 3,210 | 7.3 |
| **April** | 3,344 | 7.6 |
| **May** | 3,751 | 8.5 |
| **June** | 4,381 | 10.0 |
| **July** | 4,764 | 10.8 |
| **August** | 4,540 | 10.3 |
| **September** | 3,710 | 8.4 |
| **October** | 3,758 | 8.5 |
| **November** | 3,270 | 7.4 |
| **December** | 3,112 | 7.1 |

### Source: Emergency Discharge Data, for 1 Jan 2007 through 31 Dec 2011, 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.