

Massachusetts Department of Public Health juLY 2025

**Data Brief:   
Sharps Injuries among Hospital Workers in Massachusetts: Findings from the Massachusetts Sharps Injury Surveillance System, 2021 & 2022**

Since 2001, hospitals licensed by the Massachusetts Department of Public Health (DPH) have been required to report data on sharps injuries among workers to the Department annually (MGL/Chapter 111 s 53D) and to use sharps with engineered sharps injury prevention features (SESIPs). Annual data have been collected from all DPH licensed hospitals since 2002. This report includes data on sharps injuries that occurred during 2021 and 2022.

The Massachusetts Sharps Injury Surveillance System is intended to provide information to assist Massachusetts hospitals and hospital workers in targeting and evaluating efforts to reduce the incidence of sharps injuries and the associated human and economic costs. For a more comprehensive description of the system, please see: [Sharps Injuries among Hospital Workers in Massachusetts, 2004: Findings from the Massachusetts Sharps Injury Surveillance System](https://www.mass.gov/doc/sharps-injuries-among-hospital-workers-in-massachusetts-2004/download).

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| **Data Highlights and Prevention Measures** |
| * The number of sharps injuries reported by all DPH licensed hospitals in Massachusetts remained steady in 2021 and 2022, with 2,878 and 2,743 sharps injuries (SI) reported in each respective year. The SI rate fluctuated slightly from 16.4 to 15.7 SI per 100 licensed beds. These rates were similar to rates since 2010 (Figure 1), demonstrating a plateau in the sharps injury rate for more than a decade. * Sharps injuries involving sharps with engineered sharps injury prevention features (SESIPs) accounted for more reported sharps injuries in each year than SI occurring with devices lacking sharps injury prevention features (2021: 49% vs. 44%; 2022: 51% vs. 42%). While this may reflect a change in procurement practices, it also highlights the point that engineering controls are not the sole solution and that comprehensive sharps injury prevention program also includes evaluation of devices. With more than 10% of injuries occurring during activation of the sharps injury prevention feature, this highlights the need for thorough training for all users on the mechanisms of those devices as well as safer work practices. * Hypodermic needles and syringes accounted for more than 30% of all sharps injuries in each year; 84% of those involved sharps with engineered sharps injury prevention features. Among those, approximately 40% each year involved the sliding sheath mechanism, and another 40% involved the hinged cap mechanism. These findings highlight the need for hospitals to use their own Sharps Injury Surveillance data for quality improvement purposes such as evaluating devices, and to include frontline workers in device evaluation and selection. * When looking at injuries by procedure type, injuries involving devices used for injection procedures were most frequent (2021: 973; 2022: 858). In each year, 82% of those injuries involved devices with sharps injury prevention features (Tables 7a and 7b). Hospitals are encouraged to look at the circumstances of these injuries to determine the timing of injuries relative to use of the item, evaluate the effectiveness of the mechanisms involved, identify gaps in work practices, and assess the availability and placement of disposal containers. * The presence of a sharps injury prevention feature is most critical after a device is used. Of injuries involving devices lacking sharps injury prevention features, in each year, more than 60% of those involving hypodermic needles and syringes occurred either after use and before disposal or during or after disposal; For vacuum tube collection sets that percentage was as high as 84% (2021), and for IV stylets the percentage was as high as 69% (2022) (Table 9a and 9b). These injuries could be thought of as “never events” in that the use of devices with sharps injury prevention features could have likely prevented the injury. |

**Key Definitions and Methods**

**Sharps injury (also referred to as an exposure incident):**An exposure to blood or other potentially infectious materials as a result of an incident involving a contaminated sharp device that pierces the skin or mucous membranes. An injury with a clean sharp or device (before use) through contaminated gloves or other contaminated mediums is also considered a sharps injury. An injury involving a clean device without any contact with infectious materials is not considered an exposure incident.

**Sharps device:**Any object that can penetrate the skin or any part of the body and result in an exposure incident, including but not limited to needle devices, scalpels, lancets, broken glass, and broken capillary tubes.

**Population under surveillance:**All health care workers in acute and non-acute care hospitals licensed by DPH, as well as any satellite units (e.g., ambulatory care centers) operating under a hospital license.

**Surveillance Period:** Calendar years 2021 and 2022.

**Sharps injury rates:**Numbers are the counts of sharps injuries, while sharps injury rates indicate the probability or risk of a worker sustaining a sharps injury within the surveillance period. Rates were calculated by dividing the number of sharps injuries among all workers by the number of licensed beds, and by dividing the number of sharps injuries among employees of acute care hospitals by the number of full-time equivalent employees in those hospitals. Confidence intervals (CI) are presented for each rate. Trends in annual rates were modeled using both negative binomial and joinpoint regressions. Negative binomial regression was used to model the overall trends of these rates from 2002 to 2022. Joinpoint regression was used to identify any changes in the trends over the same period. Both rates and numbers of injuries must be considered when targeting and evaluating prevention efforts. A large hospital may have many workers who sustain sharps injuries, but the rate of injury may be low. Conversely, in a smaller hospital, relatively few workers may sustain sharps injuries, but the risk may be high.

**Sharps with engineered sharps injury protections (SESIPs):**Needle devices and non-needle sharps used for withdrawing body fluids, accessing a vein or artery, or administering medications or other fluids, with built-in sharps injury prevention features or mechanisms that effectively reduce the risk of an exposure incident.

**Findings**

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| **Table 1a.** | | **Number and rate of sharps injuries among hospital workers by hospital characteristics, Massachusetts, 2021** | | | | | | | | | |
|  | | |  | **Hospitals** | | **Sharps Injuries** | | **Rate per 100 licensed beds** | | **95% CI** | |
| **Hospital size** | | |  | **N** | **%** | N | % |  |  |  |  |
|  | Small (< 100 licensed beds) | | | 26 | 29.2 | 167 | 5.8 | 12.3 |  |  | 10.5-14.2 |
|  | Medium (101-300 licensed beds) | | | 45 | 50.6 | 815 | 28.3 | 9.8 |  |  | 9.1-10.5 |
|  | Large (>300 licensed beds) | | | 18 | 20.2 | 1,896 | 65.9 | 19.6 |  |  | 18.7-20.5 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Service Type** | | |  |  |  |  |  |  |  |  |  |
|  | Acute care | | | 71 | 79.8 | 2,826 | 98.2 | 19.2 |  |  | 18.5-19.9 |
|  | Non-acute care\* | | | 18 | 20.2 | 52 | 1.8 | 1.9 |  |  | 1.4-2.4 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Teaching Status** | | |  |  |  |  |  |  |  |  |  |
|  | Teaching | | | 17 | 19.1 | 1,814 | 64.2 | 27.9 |  |  | 16.6-29.2 |
|  | Non-teaching | | | 72 | 80.9 | 1,064 | 37. | 9.8 |  |  | 8.8-9.9 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Total** | | |  | **89** | **100** | **2,878** | **100** | **16.4** |  |  | **15.8-17.0** |

\*Non-acute care hospitals include chronic care and rehabilitation facilities.

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| **Table 1b.** | | **Number and rate of sharps injuries among hospital workers by hospital characteristics, Massachusetts, 2022** | | | | | | | | | |
|  | | |  | **Hospitals** | | **Sharps Injuries** | | **Rate per 100 licensed beds** | | **95% CI** | |
| **Hospital size** | | |  | **N** | **%** | N | % |  |  |  |  |
|  | Small (< 100 licensed beds) | | | 27 | 30.3 | 172 | 6.3 | 12.1 |  |  | 10.3-13.9 |
|  | Medium (101-300 licensed beds) | | | 44 | 49.4 | 834 | 30.4 | 9.8 |  |  | 9.1-10.5 |
|  | Large (>300 licensed beds) | | | 18 | 20.2 | 1,737 | 63.3 | 18.0 |  |  | 17.1-18.8 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Service Type** | | |  |  |  |  |  |  |  |  |  |
|  | Acute care | | | 71 | 79.8 | 2,702 | 98.5 | 18.3 |  |  | 17.6-19.0 |
|  | Non-acute care\* | | | 18 | 20.2 | 41 | 1.5 | 1.5 |  |  | 1.0-2.0 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Teaching Status** | | |  |  |  |  |  |  |  |  |  |
|  | Teaching | | | 18 | 20.2 | 1,724 | 62.9 | 26.1 |  |  | 24.9-27.4 |
|  | Non-teaching | | | 71 | 79.8 | 1,019 | 37.2 | 9.4 |  |  | 8.8-9.9 |
|  | | |  |  |  |  |  |  |  |  |  |
| **Total** | | |  | **89** | **100** | **2,743** | **100** | **15.7** |  |  | **15.1-16.3** |

\*Non-acute care hospitals include chronic care and rehabilitation facilities.

**Figure 1. Number and rate of sharps injuries per licensed beds among all workers in acute and non-acute care hospitals, Massachusetts, 2002-2022**

**Sharps injuries per 100 licensed beds**

The sharps injury rate for all hospitals combined decreased significantly between 2002 and 2009. The average annual percent change in the sharps injury rate between 2002 and 2009 was -2.50 (p<0.0001). However, the average annual percent change from 2009 to 2022 was 0.12 (p=0.53), indicating the rate remained relatively steady over that time period.

**Figure 2. Number and rate of sharps injuries per licensed beds among all workers in acute care hospitals only, Massachusetts, 2002-2022**

**Sharps injuries per 100 licensed beds**

The sharps injury rate for acute care hospitals decreased significantly between 2002 and 2010. The average annual percent change in the sharps injury rate between 2002 and 2010 was -2.69 (p<0.0001). However, the average annual percent change from 2010 to 2022 was -0.03 (p=0.89), indicating that the rate remained relatively steady over that time period. When looking at the rate of sharps injuries among employees of acute care hospitals by full time equivalents (FTEs), the rate significantly decreased between 2002 and 2009 with an average annual percent change of -4.79 (p<0.0001). Between 2009 to 2022 the rate remained relatively steady (average annual percent change = -0.42 (p=0.23)).

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| **Table 2a.** | | **Sharps injuries by worker and incident characteristics and hospital size, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | |
|  | | | | | | | Hospital Size | | | | | | | | | | | |
|  | | | All Hospitals | | | | Small | | | | Medium | | | | Large | | | |
|  | | | 89 hospitals | | | | 26 hospitals | | | | 45 hospitals | | | | 18 hospitals | | | |
|  | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Work status of injured worker** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | Employee | | 2,488 |  | 86 |  | 154 |  | 92 |  | 687 |  | 84 |  | 1,647 |  | 87 |  |
|  | Non-Employee practitioner | | 227 |  | 8 |  | 7 |  | 4 |  | 66 |  | 8 |  | 154 |  | 8 |  |
|  | Temporary / Contract worker | | 86 |  | 3 |  | 4 |  | 2 |  | 36 |  | 4 |  | 46 |  | 2 |  |
|  | Student | | 73 |  | 3 |  | 2 |  | 1 |  | 24 |  | 3 |  | 47 |  | 2 |  |
|  | Volunteer | | 1 |  | <1 |  | 0 |  | 0 |  | 1 |  | <1 |  | 0 |  | 0 |  |
|  | Other/Unknown/Nonclassifiable | | 3 |  | <1 |  | 0 |  | 0 |  | 1 |  | <1 |  | 2 |  | <1 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Occupation** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | Nurse | | 1,190 |  | 41 |  | 87 |  | 52 |  | 405 |  | 50 |  | 698 |  | 37 |  |
|  | Physician | | 1,049 |  | 36 |  | 36 |  | 22 |  | 169 |  | 21 |  | 844 |  | 45 |  |
|  | Technician | | 389 |  | 14 |  | 26 |  | 16 |  | 157 |  | 19 |  | 206 |  | 11 |  |
|  | Support Services | | 119 |  | 4 |  | 10 |  | 6 |  | 26 |  | 3 |  | 83 |  | 4 |  |
|  | Dental staff | | 10 |  | <1 |  | 0 |  | 0 |  | 3 |  | <1 |  | 7 |  | <1 |  |
|  | Other medical staff | | 80 |  | 3 |  | 7 |  | 4 |  | 35 |  | 4 |  | 38 |  | 2 |  |
|  | Other/Unknown/Nonclassifiable | | 41 |  | 1 |  | 1 |  | <1 |  | 20 |  | 2 |  | 20 |  | 1 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Department where injury occurred** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | Operating and Procedure rooms | | 1,229 |  | 43 |  | 51 |  | 31 |  | 298 |  | 37 |  | 880 |  | 46 |  |
|  | Inpatient units, excluding ICU | | 612 |  | 21 |  | 33 |  | 20 |  | 220 |  | 27 |  | 359 |  | 19 |  |
|  | Emergency Department | | 307 |  | 11 |  | 25 |  | 15 |  | 113 |  | 14 |  | 169 |  | 9 |  |
|  | Outpatient areas | | 244 |  | 8 |  | 33 |  | 20 |  | 60 |  | 7 |  | 151 |  | 8 |  |
|  | Intensive Care Units | | 233 |  | 8 |  | 3 |  | 2 |  | 43 |  | 5 |  | 187 |  | 10 |  |
|  | Laboratories | | 54 |  | 2 |  | 1 |  | 1 |  | 7 |  | 1 |  | 46 |  | 2 |  |
|  | Other/Unknown/Nonclassifiable | | 199 |  | 7 |  | 21 |  | 13 |  | 74 |  | 9 |  | 104 |  | 5 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Device involved in the injury** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | Hypodermic needle/syringe | | 1,122 |  | 39 |  | 64 |  | 38 |  | 347 |  | 43 |  | 711 |  | 38 |  |
|  | Suture needle | | 560 |  | 19 |  | 23 |  | 14 |  | 112 |  | 14 |  | 425 |  | 22 |  |
|  | Winged-steel needle | | 213 |  | 7 |  | 23 |  | 14 |  | 83 |  | 10 |  | 107 |  | 6 |  |
|  | Scalpel blade | | 212 |  | 7 |  | 5 |  | 3 |  | 47 |  | 6 |  | 160 |  | 8 |  |
|  | Vacuum tube collection holder/needle | | 113 |  | 4 |  | 6 |  | 4 |  | 49 |  | 6 |  | 58 |  | 3 |  |
|  | Glass | | 20 |  | 1 |  | 2 |  | 1 |  | 7 |  | 1 |  | 11 |  | 1 |  |
|  | Dental device or item | | 9 |  | <1 |  | 1 |  | <1 |  | 3 |  | <1 |  | 5 |  | <1 |  |
|  | Other hollow bore needle | | 233 |  | 8 |  | 18 |  | 11 |  | 64 |  | 8 |  | 151 |  | 8 |  |
|  | Other /Unknown/Nonclassifiable | | 396 |  | 13 |  | 25 |  | 15 |  | 103 |  | 13 |  | 268 |  | 14 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Procedure for which the device was used** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | Injection | | 973 |  | 34 |  | 53 |  | 32 |  | 306 |  | 38 |  | 614 |  | 32 |  |
|  | Suturing | | 572 |  | 20 |  | 24 |  | 4 |  | 112 |  | 14 |  | 436 |  | 23 |  |
|  | Blood procedures | | 357 |  | 12 |  | 27 |  | 16 |  | 147 |  | 18 |  | 183 |  | 10 |  |
|  | Making the incision | | 294 |  | 10 |  | 10 |  | 6 |  | 71 |  | 9 |  | 213 |  | 11 |  |
|  | Line procedures | | 269 |  | 9 |  | 25 |  | 15 |  | 73 |  | 9 |  | 171 |  | 9 |  |
|  | To obtain body fluid or tissue sample | | 55 |  | 2 |  | 1 |  | 1 |  | 14 |  | 2 |  | 40 |  | 2 |  |
|  | Dental procedures | | 10 |  | <1 |  | 1 |  | 1 |  | 3 |  | <1 |  | 6 |  | <1 |  |
|  | Other/Unknown/Nonclassifiable | | 348 |  | 11 |  | 26 |  | 16 |  | 89 |  | 11 |  | 233 |  | 12 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Table 2b.** | | **Sharps injuries by worker and incident characteristics and hospital size, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | |
|  | | | | | | | Hospital Size | | | | | | | | | | | |
|  | | | All Hospitals | | | | Small | | | | Medium | | | | Large | | | |
|  | | | 89 hospitals | | | | 27 hospitals | | | | 44 hospitals | | | | 18 hospitals | | | |
|  | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Work status of injured worker** | | | **2,743** |  | **100** |  | **172** |  | **100** |  | **834** |  | **100** |  | **1,737** |  | **100** |  |
|  | Employee | | 2,366 |  | 86 |  | 151 |  | 88 |  | 688 |  | 82 |  | 1,527 |  | 88 |  |
|  | Non-Employee practitioner | | 164 |  | 6 |  | 7 |  | 4 |  | 60 |  | 7 |  | 97 |  | 6 |  |
|  | Temporary / Contract worker | | 147 |  | 5 |  | 13 |  | 8 |  | 60 |  | 7 |  | 74 |  | 4 |  |
|  | Student | | 66 |  | 2 |  | 1 |  | 1 |  | 26 |  | 3 |  | 39 |  | 2 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Occupation** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nurse | | 1,184 |  | 43 |  | 94 |  | 55 |  | 395 |  | 47 |  | 695 |  | 40 |  |
|  | Physician | | 868 |  | 32 |  | 39 |  | 23 |  | 162 |  | 19 |  | 667 |  | 38 |  |
|  | Technician | | 450 |  | 16 |  | 26 |  | 15 |  | 190 |  | 23 |  | 234 |  | 13 |  |
|  | Support Services | | 95 |  | 3 |  | 4 |  | 2 |  | 32 |  | 4 |  | 59 |  | 3 |  |
|  | Dental staff | | 4 |  | <1 |  | 0 |  | 0 |  | 1 |  | <1 |  | 3 |  | <1 |  |
|  | Other medical staff | | 89 |  | 3 |  | 8 |  | 5 |  | 33 |  | 4 |  | 48 |  | 3 |  |
|  | Other/Unknown/Nonclassifiable | | 53 |  | 2 |  | 1 |  | 1 |  | 21 |  | 3 |  | 31 |  | 2 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Department where injury occurred** | | | **2,743** |  | **100** |  | **172** |  | **100** |  | **834** |  | **100** |  | **1,737** |  | **100** |  |
|  | Operating and Procedure rooms | | 1,111 |  | 41 |  | 63 |  | 37 |  | 271 |  | 32 |  | 777 |  | 45 |  |
|  | Inpatient units, excluding ICU | | 633 |  | 23 |  | 34 |  | 20 |  | 252 |  | 30 |  | 347 |  | 20 |  |
|  | Emergency Department | | 338 |  | 12 |  | 29 |  | 17 |  | 127 |  | 15 |  | 182 |  | 10 |  |
|  | Intensive Care Units | | 224 |  | 8 |  | 2 |  | 1 |  | 54 |  | 6 |  | 168 |  | 10 |  |
|  | Outpatient areas | | 206 |  | 8 |  | 27 |  | 16 |  | 48 |  | 6 |  | 131 |  | 8 |  |
|  | Laboratories | | 95 |  | 3 |  | 4 |  | 2 |  | 28 |  | 3 |  | 63 |  | 4 |  |
|  | Other/Unknown/Nonclassifiable | | 136 |  | 6 |  | 13 |  | 8 |  | 54 |  | 7 |  | 69 |  | 5 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Device involved in the injury** | | | **2,743** |  | **100** |  | **172** |  | **100** |  | **834** |  | **100** |  | **1,737** |  | **100** |  |
|  | Hypodermic needle/syringe | | 964 |  | 35 |  | 64 |  | 37 |  | 316 |  | 38 |  | 584 |  | 34 |  |
|  | Suture needle | | 471 |  | 17 |  | 20 |  | 12 |  | 102 |  | 12 |  | 349 |  | 20 |  |
|  | Winged-steel needle | | 287 |  | 10 |  | 26 |  | 15 |  | 99 |  | 12 |  | 162 |  | 9 |  |
|  | Scalpel blade | | 191 |  | 7 |  | 8 |  | 5 |  | 45 |  | 5 |  | 138 |  | 8 |  |
|  | Vacuum tube collection holder/needle | | 116 |  | 4 |  | 3 |  | 2 |  | 51 |  | 6 |  | 62 |  | 4 |  |
|  | Glass | | 22 |  | 1 |  | 0 |  | 0 |  | 10 |  | 1 |  | 12 |  | 1 |  |
|  | Dental device or item | | 3 |  | <1 |  | 0 |  | 0 |  | 2 |  | <1 |  | 1 |  | <1 |  |
|  | Other hollow bore needle | | 325 |  | 12 |  | 23 |  | 13 |  | 96 |  | 12 |  | 206 |  | 12 |  |
|  | Other /Unknown/Nonclassifiable | | 364 |  | 14 |  | 28 |  | 16 |  | 113 |  | 14 |  | 223 |  | 13 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Procedure for which the device was used** | | | **2,743** |  | **100** |  | **172** |  | **100** |  | **834** |  | **100** |  | **1,737** |  | **100** |  |
|  | Injection | | 858 |  | 31 |  | 57 |  | 33 |  | 272 |  | 33 |  | 529 |  | 30 |  |
|  | Suturing | | 477 |  | 17 |  | 20 |  | 12 |  | 100 |  | 12 |  | 357 |  | 21 |  |
|  | Blood procedures | | 442 |  | 16 |  | 24 |  | 14 |  | 185 |  | 22 |  | 233 |  | 13 |  |
|  | Making the incision | | 292 |  | 11 |  | 24 |  | 14 |  | 84 |  | 10 |  | 184 |  | 11 |  |
|  | Line procedures | | 299 |  | 11 |  | 24 |  | 14 |  | 86 |  | 10 |  | 189 |  | 11 |  |
|  | To obtain body fluid or tissue sample | | 38 |  | 1 |  | 2 |  | 1 |  | 12 |  | 1 |  | 24 |  | 1 |  |
|  | Dental procedures | | 6 |  | <1 |  | 1 |  | 1 |  | 2 |  | <1 |  | 3 |  | <1 |  |
|  | Other/Unknown/Nonclassifiable | | 331 |  | 12 |  | 20 |  | 11 |  | 93 |  | 11 |  | 218 |  | 13 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Table 3a.** | **Sharps injuries involving hollow-bore devices by device type and occupation, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | **Hollow Bore** | | | | | | | | | | | | | | | |
| **Occupation** | | **Total** | | | | **Hypodermic** | | | | **Winged-Steel** | | | | **Vacuum Tube** | | | | **Other Hollow** | | | |
|  | |  | | | | **Needle/Syringe** | | | | **Needle** | | | | **Collection Set** | | | | **Bore** | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Nurse** | | 1,005 |  | 100 |  | 734 |  | 73 |  | 98 |  | 10 |  | 57 |  | 6 |  | 116 |  | 12 |  |
| **Physician** | | 323 |  | 100 |  | 229 |  | 71 |  | 8 |  | 2 |  | - |  | - |  | 86 |  | 27 |  |
| **Technician** | | 227 |  | 100 |  | 63 |  | 28 |  | 93 |  | 41 |  | 52 |  | 23 |  | 19 |  | 8 |  |
| **Support services** | | 37 |  | 100 |  | 23 |  | 62 |  | 2 |  | 5 |  | 3 |  | 8 |  | 9 |  | 24 |  |
| **Dental staff** | | 5 |  | 100 |  | 5 |  | 100 |  | - |  | - |  | - |  | - |  | - |  | - |  |
| **Other medical staff** | | 67 |  | 100 |  | 52 |  | 78 |  | 11 |  | 16 |  | 1 |  | 1 |  | 3 |  | 4 |  |
| **Other** | | 17 |  | 100 |  | 16 |  | 94 |  | 1 |  | 6 |  | - |  | - |  | - |  | - |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | **1,681** |  | **100** |  | **1,122** | | **67** |  | **213** |  | **13** |  | **113** |  | **7** |  | **233** |  | **14** |  |

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| **Table 3b.** | **Sharps injuries involving hollow-bore devices by device type and occupation, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | **Hollow Bore** | | | | | | | | | | | | | | | |
| **Occupation** | | **Total** | | | | **Hypodermic** | | | | **Winged-Steel** | | | | **Vacuum Tube** | | | | **Other Hollow** | | | |
|  | |  | | | | **Needle/Syringe** | | | | **Needle** | | | | **Collection Set** | | | | **Bore** | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Nurse** | | 1001 |  | 100 |  | 636 |  | 64 |  | 132 |  | 13 |  | 47 |  | 5 |  | 186 |  | 19 |  |
| **Physician** | | 286 |  | 100 |  | 186 |  | 65 |  | 5 |  | 2 |  | 6 |  | 2 |  | 89 |  | 31 |  |
| **Technician** | | 272 |  | 100 |  | 66 |  | 24 |  | 122 |  | 45 |  | 52 |  | 19 |  | 32 |  | 12 |  |
| **Support services** | | 30 |  | 100 |  | 17 |  | 57 |  | 1 |  | 3 |  | 2 |  | 7 |  | 1 |  | 3 |  |
| **Dental staff** | | 3 |  | 100 |  | 2 |  | 67 |  | - |  | - |  | - |  | - |  | - |  | - |  |
| **Other medical staff** | | 74 |  | 100 |  | 41 |  | 55 |  | 22 |  | 30 |  | 8 |  | 11 |  | 3 |  | 4 |  |
| **Other** | | 26 |  | 100 |  | 16 |  | 62 |  | 5 |  | 19 |  | 1 |  | 4 |  | 4 |  | 15 |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | 1692 |  | 100 |  | 964 |  | 57 |  | 287 |  | 17 |  | 116 |  | 7 |  | 325 |  | 19 |  |

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| **Table 4a.** | **Sharps injuries involving solid-bore devices by device type and occupation, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Occupation** | | **Total** | | | | **Suture Needle** | | | | **Scalpel** | | | | **Glass** | | | | **Other** | | | **Unknown** | | | | |
|  | |  | | | |  | | | |  | | | |  | | | |  | | |  | | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | |
| **Physician** | | 724 |  | 100 |  | 437 |  | 60 |  | 133 |  | 18 |  | 3 |  | 0 |  | 133 |  | 18 |  | 18 |  | 2 |  | |
| **Nurse** | | 182 |  | 100 |  | 61 |  | 34 |  | 34 |  | 19 |  | 8 |  | 4 |  | 60 |  | 33 |  | 19 |  | 10 |  | |
| **Technician** | | 161 |  | 100 |  | 51 |  | 32 |  | 35 |  | 22 |  | 7 |  | 4 |  | 52 |  | 32 |  | 16 |  | 10 |  | |
| **Support services** | | 81 |  | 100 |  | 4 |  | 5 |  | 3 |  | 4 |  | 1 |  | 1 |  | 40 |  | 49 |  | 33 |  | 41 |  | |
| **Other medical staff** | | 13 |  | 100 |  | 1 |  | 8 |  | 3 |  | 23 |  | - |  | - |  | 7 |  | 54 |  | 2 |  | 15 |  | |
| **Other/Unknown** | | 24 |  | 100 |  | 6 |  | 26 |  | 4 |  | 17 |  | 1 |  | 4 |  | 8 |  | 35 |  | 5 |  | 18 |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |  | |  |  |  | |
| **Total** | | **1,185** |  | **100** |  | **560** |  | **47** |  | **212** |  | **18** |  | **20** |  | **2** |  | **300** |  | **25** |  | **93** |  | **8** |  | |

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| **Table 4b.** | **Sharps injuries involving solid-bore devices by device type and occupation, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Occupation** | | **Total** | | | | **Suture Needle** | | | | **Scalpel** | | | | **Glass** | | | | **Other** | | | **Unknown** | | | | |
|  | |  | | | |  | | | |  | | | |  | | | |  | | |  | | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | |
| **Physician** | | 579 |  | 100 |  | 340 |  | 59 |  | 104 |  | 18 |  | 5 |  | 1 |  | 116 |  | 20 |  | 14 |  | 2 |  | |
| **Nurse** | | 171 |  | 100 |  | 64 |  | 37 |  | 26 |  | 15 |  | 4 |  | 2 |  | 66 |  | 39 |  | 11 |  | 6 |  | |
| **Technician** | | 176 |  | 100 |  | 56 |  | 32 |  | 49 |  | 28 |  | 9 |  | 5 |  | 54 |  | 31 |  | 8 |  | 5 |  | |
| **Support services** | | 65 |  | 100 |  | 2 |  | 3 |  | 1 |  | 2 |  | 1 |  | 2 |  | 38 |  | 58 |  | 23 |  | 35 |  | |
| **Other medical staff** | | 15 |  | 100 |  | 1 |  | 7 |  | 6 |  | 40 |  | 1 |  | 7 |  | 7 |  | 47 |  | 0 |  | 0 |  | |
| **Other/Unknown** | | 26 |  | 100 |  | 8 |  | 31 |  | 5 |  | 19 |  | 2 |  | 8 |  | 10 |  | 38 |  | 1 |  | 4 |  | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |  | |  |  |  | |
| **Total** | | **1,032** |  | **100** |  | **471** |  | **46** |  | **191** |  | **19** |  | **22** |  | **2** |  | **291** |  | **28** |  | **57** |  | **6** |  | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 5a.** | | **Sharps injuries by SESIP by hospital size: all devices and excluding suture needles, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | |
|  | | | | | | | Hospital Size^ | | | | | | | | | | | |
|  | | | All Hospitals | | | | Small | | | | Medium | | | | Large | | | |
|  | | | 89 hospitals | | | | 26 hospitals | | | | 45 hospitals | | | | 18 hospitals | | | |
| Sharps Injury Protections | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **All devices** | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
|  | SESIP | | 1,407 |  | 49 |  | 97 |  | 58 |  | 478 |  | 59 |  | 832 |  | 44 |  |
|  | Non-SESIP | | 1,270 |  | 44 |  | 52 |  | 31 |  | 288 |  | 35 |  | 930 |  | 49 |  |
|  | Unknown/Not answered/Nonclassifiable | | 201 |  | 7 |  | 18 |  | 11 |  | 49 |  | 6 |  | 134 |  | 7 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Devices excluding suture needles** | | | **2,318** |  | **100** |  | **144** |  | **100** |  | **703** |  | **100** |  | **1,471** |  | **100** |  |
|  | SESIP | | 1,404 |  | 61 |  | 97 |  | 67 |  | 475 |  | 68 |  | 832 |  | 57 |  |
|  | Non-SESIP | | 722 |  | 31 |  | 29 |  | 20 |  | 181 |  | 26 |  | 512 |  | 35 |  |
|  | Unknown/Not Answered/Nonclassifiable | | 192 |  | 8 |  | 18 |  | 13 |  | 47 |  | 6 |  | 127 |  | 8 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ^Hospital size: small= <100 licensed beds; medium=101-300 licensed beds; large=>300 licensed beds | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
| **Table 5b.** | | **Sharps injuries by SESIP by hospital size: all devices and excluding suture needles, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | |
|  | | | | | | | Hospital Size^ | | | | | | | | | | | |
|  | | | All Hospitals | | | | Small | | | | Medium | | | | Large | | | |
|  | | | 89 hospitals | | | | 27 hospitals | | | | 44 hospitals | | | | 18 hospitals | | | |
| Sharps Injury Protections | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **All devices** | | | **2,743** |  | **100** |  | **172** |  | **100** |  | **834** |  | **100** |  | **1,737** |  | **100** |  |
|  | SESIP | | 1,403 |  | 51 |  | 93 |  | 54 |  | 502 |  | 60 |  | 808 |  | 47 |  |
|  | Non-SESIP | | 1146 |  | 42 |  | 65 |  | 38 |  | 282 |  | 34 |  | 799 |  | 46 |  |
|  | Unknown/Not answered/Nonclassifiable | | 194 |  | 7 |  | 14 |  | 8 |  | 50 |  | 6 |  | 130 |  | 7 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Devices excluding suture needles** | | | **2,272** |  | **100** |  | **152** |  | **100** |  | **732** |  | **100** |  | **1,388** |  | **100** |  |
|  | SESIP | | 1,401 |  | 62 |  | 93 |  | 61 |  | 501 |  | 68 |  | 807 |  | 58 |  |
|  | Non-SESIP | | 684 |  | 30 |  | 46 |  | 30 |  | 181 |  | 25 |  | 457 |  | 33 |  |
|  | Unknown/Not Answered/Nonclassifiable | | 187 |  | 8 |  | 13 |  | 9 |  | 50 |  | 7 |  | 124 |  | 9 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ^Hospital size: small= <100 licensed beds; medium=101-300 licensed beds; large=>300 licensed beds | | | | | | | | | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 6a.** | **Sharps injuries involving devices from prepackaged kits by device and SESIP, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | |
|  | |  | | | | **In a kit** | | | | | | | | | | | |
|  | |  | | | | **SESIP Status** | | | | | | | | | | | |
| **Device** | | **Total** | | | | **SESIP** | | | | **Non-SESIP** | | | | **Unknown/**  **Not answered** | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| Hypodermic needle/syringe | | 243 |  | 100 |  | 174 |  | 72 |  | 65 |  | 27 |  | 4 |  | 2 |  |
| Winged steel needle | | 58 |  | 100 |  | 58 |  | 100 |  | - |  | - |  | - |  | - |  |
| Scalpel blade | | 57 |  | 100 |  | 36 |  | 63 |  | 19 |  | 33 |  | 2 |  | 4 |  |
| Vacuum tube collection holder/needle | | 20 |  | 100 |  | 13 |  | 65 |  | 7 |  | 35 |  | - |  | - |  |
| Suture needle | | 96 |  | 100 |  | 3 |  | 3 |  | 92 |  | 96 |  | 1 |  | 1 |  |
| Other hollow bore needle | | 77 |  | 100 |  | 21 |  | 27 |  | 52 |  | 68 |  | 4 |  | 5 |  |
| Other | | 73 |  | 100 |  | 2 |  | 3 |  | 70 |  | 96 |  | 1 |  | 1 |  |
| **Total** | | **624** |  | **100** |  | **307** |  | **49** |  | **305** |  | **49** |  | **12** |  | **2** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 6b.** | **Sharps injuries involving devices from prepackaged kits by device and SESIP, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | |
|  | |  | | | | **In a kit** | | | | | | | | | | | |
|  | |  | | | | **SESIP Status** | | | | | | | | | | | |
| **Device** | | **Total** | | | | **SESIP** | | | | **Non-SESIP** | | | | **Unknown/**  **Not answered** | | | |
|  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| Hypodermic needle/syringe | | 204 |  | 100 |  | 158 |  | 77 |  | 40 |  | 20 |  | 6 |  | 3 |  |
| Winged steel needle | | 82 |  | 100 |  | 80 |  | 98 |  | 2 |  | 2 |  | 0 |  | 0 |  |
| Scalpel blade | | 59 |  | 100 |  | 34 |  | 58 |  | 19 |  | 32 |  | 6 |  | 10 |  |
| Vacuum tube collection holder/needle | | 25 |  | 100 |  | 23 |  | 92 |  | 2 |  | 8 |  | 0 |  | 0 |  |
| Suture needle | | 81 |  | 100 |  | 2 |  | 2 |  | 79 |  | 98 |  | 0 |  | 0 |  |
| Other hollow bore needle | | 121 |  | 100 |  | 59 |  | 49 |  | 60 |  | 50 |  | 2 |  | 2 |  |
| Other | | 58 |  | 100 |  | 6 |  | 10 |  | 47 |  | 81 |  | 5 |  | 9 |  |
| **Total** | | **630** |  | 100 |  | **362** |  | **57** |  | **249** |  | **40** |  | **19** |  | **3** |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 7a.** | | | **Sharps injuries by select procedures and SESIP, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | |
| Procedure | | | | Total | | | | SESIP | | | | Non-SESIP | | | | Unknown | | | |
|  | | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Injection procedures** | | | | **973** |  | **100** |  | **794** |  | **82** |  | **149** |  | **15** |  | **30** |  | **3** |  |
|  | Subcutaneous injection | | | 716 |  | 100 |  | 595 |  | 83 |  | 102 |  | 14 |  | 19 |  | 3 |  |
|  | Intramuscular injection | | | 221 |  | 100 |  | 190 |  | 15 |  | 26 |  | 9 |  | 5 |  | 9 |  |
|  | Other injections | | | 36 |  | 100 |  | 9 |  | 25 |  | 21 |  | 58 |  | 6 |  | 17 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Blood procedures** | | | | **357** |  | **100** |  | **292** |  | **82** |  | **45** |  | **13** |  | **20** |  | **5** |  |
|  | Percutaneous venous puncture | | | 299 |  | 100 |  | 260 |  | 87 |  | 27 |  | 9 |  | 12 |  | 4 |  |
|  | Percutaneous arterial puncture | | | 21 |  | 100 |  | 15 |  | 71 |  | 5 |  | 24 |  | 1 |  | 5 |  |
|  | Finger stick / Heel stick | | | 21 |  | 100 |  | 6 |  | 29 |  | 10 |  | 48 |  | 5 |  | 23 |  |
|  | Other blood procedures | | | 16 |  | 100 |  | 11 |  | 69 |  | 3 |  | 19 |  | 2 |  | 12 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Line procedures** | | | | **269** |  | **100** |  | **180** |  | **67** |  | **81** |  | **30** |  | **8** |  | **3** |  |
|  | To insert peripheral IV/set up heparin lock | | | 96 |  | 100 |  | 91 |  | 95 |  | 4 |  | 4 |  | 1 |  | 1 |  |
|  | To insert central line | | | 37 |  | 100 |  | 12 |  | 32 |  | 25 |  | 68 |  | - |  | - |  |
|  | Other line procedures | | | 136 |  | 100 |  | 77 |  | 57 |  | 52 |  | 38 |  | 7 |  | 5 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | | | **1,599** |  | **100** |  | **1,266** |  | **79** |  | **275** |  | **17** |  | **58** |  | **4** |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 7b.** | | | **Sharps injuries by select procedures and SESIP, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | |
| Procedure | | | | Total | | | | SESIP | | | | Non-SESIP | | | | Unknown | | | |
|  | | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Injection procedures** | | | | **858** |  | **100** |  | **700** |  | **82** |  | **119** |  | **14** |  | **39** |  | **5** |  |
|  | Subcutaneous injection | | | 657 |  | 100 |  | 541 |  | 82 |  | 84 |  | 13 |  | 32 |  | 5 |  |
|  | Intramuscular injection | | | 166 |  | 100 |  | 142 |  | 86 |  | 18 |  | 11 |  | 6 |  | 4 |  |
|  | Other injections | | | 35 |  | 100 |  | 17 |  | 49 |  | 17 |  | 49 |  | 1 |  | 3 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Blood procedures** | | | | **442** |  | **100** |  | **387** |  | **88** |  | **39** |  | **9** |  | **16** |  | **4** |  |
|  | Percutaneous venous puncture | | | 347 |  | 100 |  | 324 |  | 93 |  | 13 |  | 4 |  | 10 |  | 3 |  |
|  | Percutaneous arterial puncture | | | 28 |  | 100 |  | 24 |  | 86 |  | 2 |  | 7 |  | 2 |  | 7 |  |
|  | Finger stick / Heel stick | | | 28 |  | 100 |  | 11 |  | 39 |  | 14 |  | 50 |  | 3 |  | 11 |  |
|  | Other blood procedures | | | 39 |  | 100 |  | 28 |  | 72 |  | 10 |  | 26 |  | 1 |  | 3 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Line procedures** | | | | **299** |  | **100** |  | **202** |  | **68** |  | **82** |  | **27** |  | **15** |  | **5** |  |
|  | To insert peripheral IV/set up heparin lock | | | 114 |  | 100 |  | 106 |  | 93 |  | 6 |  | 5 |  | 2 |  | 2 |  |
|  | To insert central line | | | 40 |  | 100 |  | 13 |  | 33 |  | 20 |  | 50 |  | 7 |  | 18 |  |
|  | Other line procedures | | | 145 |  | 100 |  | 83 |  | 57 |  | 56 |  | 39 |  | 6 |  | 4 |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | | | **1599** |  | 100 |  | **1289** |  | **81** |  | **240** |  | **15** |  | **70** |  | **4** |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 8a.** | | | | **Sharps injuries among hospital workers by when and how the injury occurred by hospital size, Massachusetts, 2021** | | | | | | | | | | | | | | | | |
|  | | | | | | | | | Hospital Size^ | | | | | | | | | | | |
|  | | | | | All Hospitals | | | | Small | | | | Medium | | | | Large | | | |
|  | | | | | 89 hospitals | | | | 26 hospitals | | | | 45 hospitals | | | | 18 hospitals | | | |
|  | | | | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  |
| **Before use of the item** | | | | | **23** |  | **1** |  | **-** |  | **-** |  | **8** |  | **1** |  | **15** |  | **1** |  |
|  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **During use of the item** | | | | | **1,356** |  | **47** |  | **53** |  | **32** |  | **379** |  | **47** |  | **924** |  | **49** |  |
|  | Manipulate needle in patient | | | | 311 |  | 11 |  | 11 |  | 7 |  | 104 |  | 13 |  | 196 |  | 10 |  |
|  | Suturing | | | | 313 |  | 11 |  | 13 |  | 8 |  | 64 |  | 8 |  | 236 |  | 12 |  |
|  | Patient moved and jarred device | | | | 226 |  | 8 |  | 10 |  | 6 |  | 84 |  | 10 |  | 132 |  | 7 |  |
|  | Collision with worker or sharp | | | | 206 |  | 7 |  | 7 |  | 4 |  | 52 |  | 6 |  | 147 |  | 8 |  |
|  | Handle/pass equipment | | | | 99 |  | 3 |  | 6 |  | 4 |  | 18 |  | 2 |  | 75 |  | 4 |  |
|  | Access IV line | | | | 24 |  | 1 |  | 1 |  | 1 |  | 12 |  | 1 |  | 11 |  | 1 |  |
|  | Device Malfunction | | | | 12 |  | <1 |  | 1 |  | 1 |  | 5 |  | 1 |  | 6 |  | <1 |  |
|  | Other/Unknown/Not answered/Nonclassifiable | | | | 169 |  | 6 |  | 2 |  | 1 |  | 5 |  | 1 |  | 15 |  | 1 |  |
|  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **After use, before disposal** | | | | | **1,185** |  | **41** |  | **83** |  | **50** |  | **342** |  | **42** |  | **760** |  | **40** |  |
|  | Activating injury protection mechanism | | | | 355 |  | 12 |  | 29 |  | 17 |  | 122 |  | 15 |  | 204 |  | 11 |  |
|  | Handle/pass equipment | | | | 237 |  | 8 |  | 13 |  | 8 |  | 62 |  | 8 |  | 162 |  | 9 |  |
|  | During clean-up | | | | 205 |  | 7 |  | 17 |  | 10 |  | 46 |  | 6 |  | 142 |  | 7 |  |
|  | Recap needle | | | | 105 |  | 4 |  | 8 |  | 5 |  | 30 |  | 4 |  | 67 |  | 4 |  |
|  | Collision with worker or sharp | | | | 74 |  | 3 |  | 2 |  | 1 |  | 19 |  | 2 |  | 53 |  | 3 |  |
|  | During sharps disposal | | | | 60 |  | 2 |  | 2 |  | 1 |  | 15 |  | 2 |  | 43 |  | 2 |  |
|  | Sharps injury prevention mechanism | | | | 51 |  | 2 |  | 7 |  | 4 |  | 21 |  | 3 |  | 23 |  | 1 |  |
|  |  | | not activated | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Device malfunction | | | | 27 |  | 1 |  | 2 |  | 1 |  | 12 |  | 1 |  | 13 |  | 1 |  |
|  | Patient moved and jarred device | | | | 17 |  | 1 |  | 1 |  | 1 |  | 5 |  | 1 |  | 11 |  | 1 |  |
|  | Other/Unknown/Not answered/Nonclassifiable | | | | 54 |  | 2 |  | 2 |  | 1 |  | 10 |  | 1 |  | 42 |  | 2 |  |
|  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **During or after disposal of item** | | | | | **290** |  | **10** |  | **27** |  | **16** |  | **84** |  | **10** |  | **179** |  | **9** |  |
|  | Improper disposal | | | | 141 |  | 5 |  | 12 |  | 7 |  | 32 |  | 4 |  | 97 |  | 5 |  |
|  | During sharps disposal | | | | 128 |  | 4 |  | 13 |  | 8 |  | 42 |  | 5 |  | 73 |  | 4 |  |
|  | Collision with worker or sharp | | | | 10 |  | <1 |  | 1 |  | 1 |  | 4 |  | <1 |  | 5 |  | <1 |  |
|  | Device malfunction | | | | 5 |  | <1 |  | - |  | - |  | 3 |  | <1 |  | 2 |  | <1 |  |
|  | Sharps injury prevention mechanism | | | | 2 |  | <1 |  | 1 |  | 1 |  | 1 |  | <1 |  | - |  | - |  |
|  |  | not activated | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Unknown / Not answered / Nonclassifiable** | | | | | **24** |  | **1** |  | **4** |  | **2** |  | **2** |  | **<1** |  | **18** |  | **1** |  |
|  | Device malfunction | | | | 6 |  | <1 |  | **1** |  | **1** |  | **1** |  | **<1** |  | **4** |  | **<1** |  |
|  | Unknown/Not answered/Nonclassifiable | | | | 18 |  | 1 |  | **3** |  | **2** |  | **1** |  | **<1** |  | **14** |  | **1** |  |
|  |  | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | | | | **2,878** |  | **100** |  | **167** |  | **100** |  | **815** |  | **100** |  | **1,896** |  | **100** |  |
| ^Hospital size: small<100 licensed beds; medium 101-300 licensed beds; large >300 licensed beds | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 8b.** | | | | **Sharps injuries among hospital workers by when and how the injury occurred by hospital size, Massachusetts, 2022** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | Hospital Size^ | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | All Hospitals | | | | | | | | | Small | | | | | | | | | Medium | | | | | | | Large | | | | | | | | | | |
|  | | | | | | | | | | | | | 89 hospitals | | | | | | | | | 27 hospitals | | | | | | | | | 44 hospitals | | | | | | | 18 hospitals | | | | | | | | | | |
|  | | | | | | | | | | | | | N | | | |  | % | | |  | N | | |  | % | | |  | | N | |  | % | | |  | N | | |  | | % | | |  | | |
| **Before use of the item** | | | | | | | | | | | | | **16** | | | |  | **1** | | |  | **0** | | |  | **0** | | |  | | **5** | |  | **1** | | |  | **11** | | |  | | **1** | | |  | | |
|  |  | | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
| **During use of the item** | | | | | | | | | | | | | **1,270** | | | |  | **46** | | |  | **79** | | |  | **46** | | |  | | **353** | |  | **42** | | |  | **838** | | |  | | **48** | | |  | | |
|  | Manipulate needle in patient | | | | | | | | | | | | 306 | | | |  | 11 | | |  | 22 | | |  | 13 | | |  | | 82 | |  | 10 | | |  | 202 | | |  | | 12 | | |  | | |
|  | Suturing | | | | | | | | | | | | 277 | | | |  | 10 | | |  | 8 | | |  | 5 | | |  | | 58 | |  | 7 | | |  | 211 | | |  | | 12 | | |  | | |
|  | Patient moved and jarred device | | | | | | | | | | | | 246 | | | |  | 9 | | |  | 27 | | |  | 16 | | |  | | 89 | |  | 11 | | |  | 130 | | |  | | 7 | | |  | | |
|  | Collision with worker or sharp | | | | | | | | | | | | 222 | | | |  | 8 | | |  | 13 | | |  | 8 | | |  | | 78 | |  | 9 | | |  | 131 | | |  | | 8 | | |  | | |
|  | Handle/pass equipment | | | | | | | | | | | | 4 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 3 | |  | <1 | | |  | 1 | | |  | | 0 | | |  | | |
|  | Access IV line | | | | | | | | | | | | 34 | | | |  | 1 | | |  | 1 | | |  | 1 | | |  | | 6 | |  | 1 | | |  | 27 | | |  | | 2 | | |  | | |
|  | Device Malfunction | | | | | | | | | | | | 20 | | | |  | 1 | | |  | 1 | | |  | 1 | | |  | | 5 | |  | 1 | | |  | 14 | | |  | | 1 | | |  | | |
|  | Other/Unknown/Not answered/Nonclassifiable | | | | | | | | | | | | 159 | | | |  | 7 | | |  | 7 | | |  | 4 | | |  | | 30 | |  | 4 | | |  | 122 | | |  | | 8 | | |  | | |
|  |  | | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
| **After use, before disposal** | | | | | | | | | | | | | **1,197** | | | |  | **44** | | |  | **73** | | |  | **42** | | |  | | **388** | |  | **46** | | |  | **741** | | |  | | **43** | | |  | | |
|  | Activating injury protection mechanism | | | | | | | | | | | | 347 | | | |  | 13 | | |  | 18 | | |  | 10 | | |  | | 121 | |  | 15 | | |  | 208 | | |  | | 12 | | |  | | |
|  | Handle/pass equipment | | | | | | | | | | | | 269 | | | |  | 10 | | |  | 16 | | |  | 9 | | |  | | 80 | |  | 10 | | |  | 173 | | |  | | 10 | | |  | | |
|  | During clean-up | | | | | | | | | | | | 160 | | | |  | 6 | | |  | 15 | | |  | 9 | | |  | | 40 | |  | 5 | | |  | 105 | | |  | | 6 | | |  | | |
|  | Recap needle | | | | | | | | | | | | 87 | | | |  | 3 | | |  | 5 | | |  | 3 | | |  | | 37 | |  | 4 | | |  | 45 | | |  | | 3 | | |  | | |
|  | Collision with worker or sharp | | | | | | | | | | | | 92 | | | |  | 3 | | |  | 7 | | |  | 4 | | |  | | 33 | |  | 4 | | |  | 52 | | |  | | 3 | | |  | | |
|  | During sharps disposal | | | | | | | | | | | | 69 | | | |  | 3 | | |  | 2 | | |  | 1 | | |  | | 14 | |  | 2 | | |  | 53 | | |  | | 3 | | |  | | |
|  | Sharps injury prevention mechanism | | | | | | | | | | | | 87 | | | |  | 3 | | |  | 4 | | |  | 2 | | |  | | 34 | |  | 4 | | |  | 49 | | |  | | 3 | | |  | | |
|  |  | | not activated | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
|  | Device malfunction | | | | | | | | | | | | 37 | | | |  | 1 | | |  | 5 | | |  | 3 | | |  | | 11 | |  | 1 | | |  | 21 | | |  | | 1 | | |  | | |
|  | Patient moved and jarred device | | | | | | | | | | | | 2 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 1 | |  | <1 | | |  | 1 | | |  | | <1 | | |  | | |
|  | Other/Unknown/Not answered/Nonclassifiable | | | | | | | | | | | | 4 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 2 | |  | <1 | | |  | 2 | | |  | | <1 | | |  | | |
|  |  | | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
| **During or after disposal of item** | | | | | | | | | | | | | **223** | | | |  | **8** | | |  | **19** | | |  | **11** | | |  | | **82** | |  | **10** | | |  | **122** | | |  | | **7** | | |  | | |
|  | During sharps disposal | | | | | | | | | | | | 110 | | | |  | 4 | | |  | 12 | | |  | 7 | | |  | | 44 | |  | 5 | | |  | 54 | | |  | | 3 | | |  | | |
|  | Improper disposal | | | | | | | | | | | | 101 | | | |  | 4 | | |  | 5 | | |  | 3 | | |  | | 32 | |  | 4 | | |  | 64 | | |  | | 4 | | |  | | |
|  | Handle/pass equipment | | | | | | | | | | | | 5 | | | |  | <1 | | |  | 1 | | |  | 1 | | |  | | 2 | |  | <1 | | |  | 2 | | |  | | <1 | | |  | | |
|  | Collision with worker or sharp | | | | | | | | | | | | 3 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 3 | |  | <1 | | |  | 0 | | |  | | 0 | | |  | | |
|  | Device malfunction | | | | | | | | | | | | 2 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 0 | |  | 0 | | |  | 2 | | |  | | <1 | | |  | | |
|  | During clean-up | | | | | | | | | | | | 1 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 1 | |  | <1 | | |  | 0 | | |  | | 0 | | |  | | |
|  | Sharps injury prevention mechanism | | | | | | | | | | | | 1 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 1 | |  | <1 | | |  | 0 | | |  | | 0 | | |  | | |
|  |  | not activated | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
|  | Other | | | | | | | | | | | | 1 | | | |  | <1 | | |  | 1 | | |  | 1 | | |  | | 0 | |  | 0 | | |  | 0 | | |  | | 0 | | |  | | |
|  |  | | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
| **Unknown / Not answered / Nonclassifiable** | | | | | | | | | | | | | **38** | | | |  | **1** | | |  | **1** | | |  | **1** | | |  | | **11** | |  | **1** | | |  | **26** | | |  | | **1** | | |  | | |
|  | Device malfunction | | | | | | | | | | | | 4 | | | |  | <1 | | |  | 1 | | |  | 1 | | |  | | 1 | |  | <1 | | |  | 2 | | |  | | <2 | | |  | | |
|  | Patient moved and jarred device | | | | | | | | | | | | 1 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 1 | |  | <1 | | |  | 0 | | |  | | 0 | | |  | | |
|  | Recap needle | | | | | | | | | | | | 1 | | | |  | <1 | | |  | 0 | | |  | 0 | | |  | | 0 | |  | 0 | | |  | 1 | | |  | | <1 | | |  | | |
|  | Other/Unknown/Not answered/Nonclassifiable | | | | | | | | | | | | 31 | | | |  | 1 | | |  | 0 | | |  | 0 | | |  | | 9 | |  | 1 | | |  | 22 | | |  | | 1 | | |  | | |
|  |  | | | | | | | | | | | |  | | | |  |  | | |  |  | | |  |  | | |  | |  | |  |  | | |  |  | | |  | |  | | |  | | |
| **Total** | | | | | | | | | | | | | **2,743** | | | |  | **100** | | |  | **172** | | |  | **100** | | |  | | **834** | |  | **100** | | |  | **1,737** | | |  | | **100** | | |  | | |
| ^Hospital size: small<100 licensed beds; medium 101-300 licensed beds; large >300 licensed beds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Table 9a.** | | | | | **Sharps injuries involving select devices without sharps injury prevention features but for which SESIPs are widely available, by when the injury occurred, Massachusetts hospital workers, 2021** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | |  | | | | **When the Injury Occurred** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Device** | | | | | | **Total** | | | | **Before use** | | | | | | **During use** | | | | | | | | **After use,** | | | | | | | | **During or after disposal** | | | | | | | **Unknown/** | | | | | | | | |
|  | | | | | |  | | | | **use** | | | | | |  | | | | | | | | **Before Disposal\*** | | | | | | | | **Disposal\*** | | | | | | | **Non-classifiable** | | | | | | | | |
|  | | | | | | N |  | % |  | | N |  | | % |  | N | | |  | % | | |  | N | | |  | % | |  | | N | | |  | % | |  | | N | |  | | % |  | |
| Hypodermic Needle Needle/Syringe | | | | | | 178 |  | 100 |  | | - |  | | - |  | 46 | | |  | 26 | | |  | 109 | | |  | 61 | |  | | 20 | | |  | 11 | |  | | 3 | |  | | 2 |  | |
| Vacuum Tube Collection Holder | | | | | | 36 |  | 100 |  | | - |  | | - |  | 5 | | |  | 14 | | |  | 15 | | |  | 42 | |  | | 15 | | |  | 42 | |  | | 1 | |  | | 3 |  | |
| IV Stylet | | | | | | 34 |  | 100 |  | | 1 |  | | 3 |  | 21 | | |  | 62 | | |  | 5 | | |  | 15 | |  | | 5 | | |  | 15 | |  | | 2 | |  | | 6 |  | |
| Winged-Steel Needle Holder | | | | | | 7 |  | 100 |  | | - |  | | - |  | 3 | | |  | 43 | | |  | 2 | | |  | 29 | |  | | 2 | | |  | 29 | |  | | - | |  | | - |  | |
| **Total** | | | | | | **255** |  | **100** |  | | **1** |  | | **3** |  | **75** | | |  | **29** | | |  | **131** | | |  | **51** | |  | | **42** | | |  | **16** | |  | | **6** | |  | | **2** |  | |
| \*SESIPs offer protection during the period after use. Injuries presented in this table that occurred after use (n=136) can be considered “preventable adverse events” – events that could have been prevented with the use of SESIPS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 9b.** | **Sharps injuries involving select devices without sharps injury prevention features but for which SESIPs are widely available, by when the injury occurred, Massachusetts hospital workers, 2022** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | **When the Injury Occurred** | | | | | | | | | | | | | | | | | | | | | | |
| **Device** | | **Total** | | | | **Before use** | | | | | **During use** | | | | **After use,** | | | | **During or after disposal** | | | | **Unknown/** | | | | | |
|  | |  | | | | **use** | | | | |  | | | | **Before Disposal\*** | | | | **Disposal\*** | | | | **Non-classifiable** | | | | | |
|  | | N |  | % |  | | N |  | % |  | N |  | % |  | N |  | % |  | N |  | % |  | | N |  | % |  |
| Hypodermic Needle Needle/Syringe | | 139 |  | 100 |  | | 1 |  | <1 |  | 48 |  | 35 |  | 70 |  | 50 |  | 17 |  | 12 |  | | 3 |  | 3 |  |
| Vacuum Tube Collection Holder | | 32 |  | 100 |  | | 0 |  | 0 |  | 12 |  | 38 |  | 10 |  | 31 |  | 10 |  | 31 |  | | 0 |  | 0 |  |
| IV Stylet | | 26 |  | 100 |  | | 0 |  | 0 |  | 7 |  | 27 |  | 14 |  | 54 |  | 4 |  | 15 |  | | 1 |  | 4 |  |
| Winged-Steel Needle Holder | | 4 |  | 100 |  | | 0 |  | 0 |  | 2 |  | 50 |  | 1 |  | 25 |  | 1 |  | 25 |  | | 0 |  | 0 |  |
| **Total** | | **201** |  | **100** |  | | **1** |  | **<1** |  | **69** |  | **34** |  | **95** |  | **41** |  | **32** |  | **16** |  | | **4** |  | **2** |  |
| \*SESIPs offer protection during the period after use. Injuries presented in this table that occurred after use (n=136) can be considered “preventable adverse events” – events that could have been prevented with the use of SESIPS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 10a.** | | **Sharps injuries by occupation (detailed), Massachusetts hospital workers, 2021** | | | | | | | | | | |
|  |  | | N |  | % |  |  | | N |  | % |  |
| **Nurse** | | | **1,190** |  | **41** |  | **Support Services** | | **119** |  | **4** |  |
|  | RN or LPN | | 1,061 |  | 37 |  |  | Housekeeper | 58 |  | 2 |  |
|  | Patient care technician | | 38 |  | 1 |  |  | Central supply | 39 |  | 1 |  |
|  | Nurse practitioner | | 28 |  | 1 |  |  | Safety/security | 17 |  | 1 |  |
|  | Nurse assistant | | 27 |  | 1 |  |  | Transport/messenger/porter | 2 |  | <1 |  |
|  | Nursing student | | 17 |  | 1 |  |  | Other ancillary staff | 3 |  | <1 |  |
|  | Nurse anesthetist | | 11 |  | <1 |  |  |  |  |  |  |  |
|  | Nurse midwife | | 7 |  | <1 |  | **Other Medical Staff** | | **80** |  | **3** |  |
|  | Home health aide | | 1 |  | <1 |  |  | Medical assistant | 73 |  | 3 |  |
| **Physician** | | | **1,049** |  | **36** |  |  | Physical Therapist | 1 |  | <1 |  |
|  | Intern/Resident | | 403 |  | 14 |  |  | Other medical staff | 6 |  | <1 |  |
|  | Physician | | 245 |  | 9 |  |  |  |  |  |  |  |
|  | Fellow | | 128 |  | 4 |  | **Dental Staff** | | **10** |  | **<1** |  |
|  | Surgeon | | 95 |  | 3 |  |  | Dental assistant/tech | 6 |  | <1 |  |
|  | Physician Assistant | | 88 |  | 3 |  |  | Dentist | 2 |  | <1 |  |
|  | Medical student | | 45 |  | 2 |  |  | Dentist hygienist | 1 |  | <1 |  |
|  | Anesthesiologist | | 40 |  | 1 |  |  | Dental student | 1 |  | <1 |  |
|  | Radiologist | | 5 |  | <1 |  |  |  |  |  |  |  |
|  |  | |  |  |  |  | **Other** | | **40** |  | **1** |  |
| **Technician** | | | **389** |  | **14** |  |  | Researcher | 9 |  | <1 |  |
|  | OR/Surgical technician | | 157 |  | 5 |  |  | Pharmacist | 6 |  | <1 |  |
|  | Phlebotomist | | 135 |  | 5 |  |  | EMT/paramedic | 3 |  | <1 |  |
|  | Clinical lab technician | | 24 |  | 1 |  |  | Counselor/social worker | 3 |  | <1 |  |
|  | Emergency department technician | | 24 |  | 1 |  |  | Clerical/administrative | 1 |  | <1 |  |
|  | Radiologic technician | | 22 |  | 1 |  |  | Dietician | 1 |  | <1 |  |
|  | Respiratory therapist/technician | | 11 |  | <1 |  |  | Other student | 12 |  | <1 |  |
|  | Anesthesia technician | | 3 |  | <1 |  |  | Other | 5 |  | <1 |  |
|  | Morgue technician | | 2 |  | <1 |  |  |  |  |  |  |  |
|  | Other technician | | 11 |  | <1 |  | **Unknown/Not Answered/Nonclassifiable** | | 1 |  | <1 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  | **Total** | **2,878** |  | **100** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 10b.** | | **Sharps injuries by occupation (detailed), Massachusetts hospital workers, 2022** | | | | | | | | | | |
|  |  | | N |  | % |  |  | | N |  | % |  |
| **Nurse** | | | 1,184 |  | **43** |  | **Support Services** | | **95** |  | **3** |  |
|  | RN or LPN | | 1,050 |  | 38 |  |  | Housekeeper | 47 |  | 2 |  |
|  | Patient care technician | | 51 |  | 2 |  |  | Central supply | 38 |  | 1 |  |
|  | Nurse assistant | | 33 |  | 1 |  |  | Safety/security | 10 |  | <1 |  |
|  | Nurse practitioner | | 28 |  | 1 |  |  |  |  |  |  |  |
|  | Nurse anesthetist | | 13 |  | <1 |  |  |  |  |  |  |  |
|  | Nursing student | | 6 |  | <1 |  |  |  |  |  |  |  |
|  | Nurse midwife | | 3 |  | <1 |  | **Other Medical Staff** | | 89 |  | 3 |  |
|  |  | |  |  |  |  |  | Medical assistant | 64 |  | 2 |  |
|  | | |  |  |  |  |  | Other medical staff | **7** |  | **<1** |  |
| **Physician** | | | **868** |  | **32** |  |  |  |  |  |  |  |
|  | Intern/Resident | | 333 |  | 12 |  |  |  |  |  |  |  |
|  | Physician | | 193 |  | 7 |  |  |  |  |  |  |  |
|  | Fellow | | 115 |  | 4 |  | **Dental Staff** | | 4 |  | <1 |  |
|  | Surgeon | | 82 |  | 3 |  |  | Dental assistant/tech | 4 |  | <1 |  |
|  | Physician Assistant | | 78 |  | 3 |  |  |  |  |  |  |  |
|  | Anesthesiologist | | 31 |  | 1 |  |  |  |  |  |  |  |
|  | Medical student | | 30 |  | 1 |  |  |  |  |  |  |  |
|  | Radiologist | | 6 |  | 0 |  |  |  |  |  |  |  |
|  |  | |  |  |  |  | **Other** | | 53 |  | 2 |  |
| **Technician** | | | **450** |  | **16** |  |  | Researcher | **11** |  | **<1** |  |
|  | Phlebotomist | | 159 |  | 6 |  |  | Pharmacist | **7** |  | **<1** |  |
|  | OR/Surgical technician | | 158 |  | 6 |  |  | EMT/paramedic | 3 |  | <1 |  |
|  | Clinical lab technician | | 39 |  | 1 |  |  | Counselor/social worker | 1 |  | <1 |  |
|  | Radiologic technician | | 22 |  | 1 |  |  | Clerical/administrative | 3 |  | <1 |  |
|  | Respiratory therapist/technician | | 18 |  | 1 |  |  | Other student | 26 |  | 1 |  |
|  | Hemodialysis technician | | 2 |  | <1 |  |  | Other | 2 |  | <1 |  |
|  | Morgue technician | | 2 |  | <1 |  |  |  |  |  |  |  |
|  | Psychiatric technician | | 2 |  | <1 |  |  |  |  |  |  |  |
|  | Other technician | | 48 |  | <2 |  | **Unknown/Not Answered/Nonclassifiable** | | 0 |  | 0 |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  | **Total** | **2,743** |  | **100** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 11a.** | | **Sharps injuries by department (detailed), Massachusetts hospital workers, 2021** | | | | | | | | | | | |
|  |  | | N |  | % |  |  | | | N |  | % |  |
| **Operating and Procedure Rooms** | | | **1,229** |  | **43** |  | **Laboratory** | | | **54** |  | **2** |  |
|  | Operating room | | 902 |  | 31 |  |  | Histology/pathology | | 23 |  | 1 |  |
|  | Labor and delivery | | 76 |  | 3 |  |  | Morgue/autopsy room | | 7 |  | <1 |  |
|  | Radiology | | 69 |  | 2 |  |  | Microbiology | | 6 |  | <1 |  |
|  | Cardiac catheterization laboratory | | 56 |  | 2 |  |  | Blood bank | | 4 |  | <1 |  |
|  | Hematology/oncology | | 53 |  | 2 |  |  | Clinical chemistry | | 2 |  | <1 |  |
|  | Phlebotomy room | | 45 |  | 2 |  |  | Hematology | | 1 |  | <1 |  |
|  | Endoscopy/bronchoscopy/cystoscopy | | 8 |  | <1 |  |  | Other laboratory | | 10 |  | <1 |  |
|  | Dialysis | | 3 |  | <1 |  |  | Laboratory, unspecified | | 1 |  | <1 |  |
|  | Other procedure room | | 17 |  | 1 |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  | **Other Areas** | | | **196** |  | **7** |  |
|  | | |  |  |  |  |  | | Central sterile supply | 41 |  | 1 |  |
| **Inpatient Units, other than ICU** | | | **612** |  | **21** |  |  | Rehabilitation unit | | 35 |  | 1 |  |
|  | Medical/surgical ward | | 547 |  | 19 |  |  | Dermatology | | 32 |  | 1 |  |
|  | Obstetrics/gynecology | | 33 |  | 1 |  |  | Exam room | | 17 |  | 1 |  |
|  | Psychiatry ward | | 14 |  | <1 |  |  | Pain clinic | | 9 |  | <1 |  |
|  | Pediatrics | | 13 |  | <1 |  |  | Anesthesia | | 7 |  | <1 |  |
|  | Nursery | | 5 |  | <1 |  |  | Hospital grounds | | 5 |  | <1 |  |
|  |  | |  |  |  |  |  | Long term care | | 2 |  | <1 |  |
|  |  | |  |  |  |  |  | Pharmacy | | 2 |  | <1 |  |
| **Emergency Department** | | | **307** |  | **11** |  |  | Central trash area | | 2 |  | <1 |  |
|  |  | |  |  |  |  |  | Employee health/infection control | | 2 |  | <1 |  |
| **Outpatient Areas** | | | **244** |  |  |  |  | Other location | | 42 |  | 1 |  |
|  |  | |  |  |  |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  | **Unknown/Not Answered/Nonclassifiable** | | | **3** |  | **<1** |  |
|  |  | |  |  |  |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  |  | | |  |  |  |  |
|  |  | |  |  |  |  |  | | |  |  |  |  |
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|  |  | |  |  |  |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  | **Total** | | | **2,878** |  | **1000** |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 11b.** | | **Sharps injuries by department (detailed), Massachusetts hospital workers, 2022** | | | | | | | | | | | |
|  |  | | N |  | % |  |  | | N | |  | % |  |
| **Operating and Procedure Rooms** | | | **1,111** |  | **41** |  | **Laboratory** | | **95** | |  | **3** |  |
|  | Operating room | | 825 |  | 30 |  |  | Histology/pathology | 32 | |  | 1 |  |
|  | Labor and delivery | | 57 |  | 2 |  |  | Morgue/autopsy room | 9 | |  | <1 |  |
|  | Radiology | | 66 |  | 2 |  |  | Microbiology | 9 | |  | <1 |  |
|  | Cardiac catheterization laboratory | | 50 |  | 2 |  |  | Clinical chemistry | 3 | |  | <1 |  |
|  | Hematology/oncology | | 50 |  | 2 |  |  | Blood bank | 1 | |  | <1 |  |
|  | Phlebotomy room | | 33 |  | 1 |  |  | Laboratory, unspecified | 22 | |  | 1 |  |
|  | Endoscopy/bronchoscopy/cystoscopy | | 6 |  | <1 |  |  | Other laboratory | 19 | |  | 1 |  |
|  | Dialysis | | 6 |  | <1 |  |  |  |  | |  |  |  |
|  | Other procedure room | | 18 |  | 1 |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  | **Other Areas** | | **134** | |  | **5** |  |
|  | | |  |  |  |  |  | Central sterile supply | 42 | |  | 2 |  |
| **Inpatient Units, other than ICU** | | | **633** |  | **23** |  |  | Rehabilitation unit | 23 | |  | 1 |  |
|  | Medical/surgical ward | | 559 |  | 20 |  |  | Dermatology | 20 | |  | 1 |  |
|  | Obstetrics/gynecology | | 24 |  | 1 |  |  | Exam room | 10 | |  | <1 |  |
|  | Psychiatry ward | | 18 |  | 1 |  |  | Pain clinic | 6 | |  | <1 |  |
|  | Pediatrics | | 16 |  | 1 |  |  | Hospital grounds | 6 | |  | <1 |  |
|  | Nursery | | 5 |  | <1 |  |  | Long term care | 6 | |  | <1 |  |
|  | Patient room, ward unspecified | | 11 |  | <1 |  |  | Pharmacy | 4 | |  | <1 |  |
|  |  | |  |  |  |  |  | Central trash area | 3 | |  | <1 |  |
| **Emergency Department** | | | **338** |  | **12** |  |  | Home health visit | 3 | |  | <1 |  |
|  | | |  |  |  |  |  | Ambulance | 1 | |  | <1 |  |
| **Intensive Care Unit** | | | **224** |  | **8** |  |  | Employee health/infection control | 1 | |  | <1 |  |
|  | Intensive Care Unit | | 209 |  | 8 |  |  | Other location | 9 | |  | <1 |  |
|  | Post anesthesia care unit | | 15 |  | 1 |  |  |  |  | |  |  |  |
|  |  | |  |  |  |  |  |  |  | |  |  |  |
| **Outpatient Areas** | | | **206** |  | **8** |  | **Unknown/Not Answered** | | **2** | |  | **<1** |  |
|  | Ambulatory care clinic | | 143 |  | 5 |  |  |  |  | |  |  |  |
|  | Physician office | | 21 |  | 1 |  |  |  |  | |  |  |  |
|  | Dental clinic | | 7 |  | <1 |  |  | |  | |  |  |  |
|  | Community health center | | 3 |  | <1 |  |  |  |  | |  |  |  |
|  | Other outpatient area | | 29 |  | 1 |  |  | |  | |  |  |  |
|  |  | |  |  |  |  |  | |  | |  |  |  |
|  |  | |  |  |  |  |  |  |  | |  |  |  |
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|  |  | |  |  |  |  |  |  |  | |  |  |  |
|  |  | |  |  |  |  | **Total** | | **2,743** | |  | **1000** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 12a.** | | | **Sharps injuries by device (detailed), Massachusetts hospital workers, 2021** | | | | | | | | | | | |
|  | | |  | N |  | % |  |  | | N | |  | % |  |
| **Hypodermic needles/syringe** | | | | **1,122** |  | **39** |  | **Glass** | | **20** | |  | **1** |  |
|  | Hypodermic needle attached to a | | | 1,011 |  | 35 |  |  | Specimen / Test / Vacuum tube | 9 | |  | <1 |  |
|  |  | disposable syringe | |  |  |  |  |  | Medication ampule / Vial / IV bottle | 4 | |  | <1 |  |
|  | Prefilled cartridge syringe | | | 55 |  | 2 |  |  | Slide | 3 | |  | <1 |  |
|  | Unattached hypodermic needle | | | 29 |  | 1 |  |  | Pipette | | 1 |  | <1 |  |
|  | Hypodermic needle attached to IV | | | 20 |  | 1 |  |  | Other glass item | 3 | |  | <1 |  |
|  |  | tubing | | |  |  |  |  |  |  | |  |  |  |
|  | Hypodermic needle attached to a | | | 4 |  | <1 |  |  | |  | |  |  |  |
|  |  | non-disposable syringe | |  |  |  |  | **Dental Device or item** | | **9** | |  | **<1** |  |
|  | Hypodermic needle, unspecified | | | 3 |  | <1 |  |  | Dental pick | 3 | |  | <1 |  |
|  |  | | |  |  |  |  |  | Scaler/curette | 2 | |  | <1 |  |
| **Suture Needle** | | | | **560** |  | **19** |  |  | Dental explorer | 1 | |  | <1 |  |
|  | Curved suture needle | | | 535 |  | 19 |  |  | Dental bur | 1 | |  | <1 |  |
|  | Straight suture needle | | | 21 |  | 1 |  |  | Root canal file | 1 | |  | <1 |  |
|  | Suture needle, unspecified | | | 4 |  | <1 |  |  | Other dental device or item | 1 | |  | <1 |  |
|  |  | | |  |  |  |  | **Other** | | **300** | |  | **10** |  |
| **Other Hollow Bore Needles** | | | | **233** |  | **8** |  |  | Electrode | 41 | |  | 1 |  |
|  | IV Stylet | | | 118 |  | 4 |  |  | Wire | 38 | |  | 1 |  |
|  | Huber needle | | | 38 |  | 1 |  |  | Bovie electrocautery device | 24 | |  | 1 |  |
|  | Spinal or epidural needle | | | 20 |  | 1 |  |  | Lancet | 23 | |  | 1 |  |
|  | Biopsy needle | | | 17 |  | 1 |  |  | Retractor | 20 | |  | 1 |  |
|  | Intraosseous needle | | | 2 |  | <1 |  |  | Forceps | 19 | |  | 1 |  |
|  | Other type of hollow bore needle | | | 7 |  | <1 |  |  | Scissors | 18 | |  | <1 |  |
|  | Hollow bore needle, unspecified | | | 31 |  | 1 |  |  | Drill bit | 13 | |  | <1 |  |
|  | | | |  |  |  |  |  | Cutting blade other than scalpel | 12 | |  | <1 |  |
| **Scalpel Blade** | | | | **212** |  | **7** |  |  | Pin | 12 | |  | <1 |  |
|  | | | |  |  |  |  |  | Trocar | 10 | |  | <1 |  |
| **Winged Steel Needle** | | | | **213** |  | **7** |  |  | Bone cutter | 10 | |  | <1 |  |
|  | Winged steel needle attached to a | | | 147 |  | 5 |  |  | Staple | 9 | |  | <1 |  |
|  |  | vacuum tube collection holder | |  |  |  |  |  | Bone chip/chipped tooth | 5 | |  | <1 |  |
|  | Winged steel needle | | | 46 |  | 2 |  |  | Tenaculum | 5 | |  | <1 |  |
|  | Winged steel needle attached to IV | | | 20 |  | 1 |  |  | Razor | 2 | |  | <1 |  |
|  |  | tubing | |  |  |  |  |  | Other needle | 3 | |  | <1 |  |
|  | | | |  |  |  |  |  | Other type of sharp object | 34 | |  | 1 |  |
| **Vacuum Tube Collection Holder/Needle** | | | | **113** |  | **4** |  |  | Needle, unspecified | 2 | |  | <1 |  |
|  | Vacuum tube collection holder/needle | | | 67 |  | 2 |  |  |  |  | |  |  |  |
|  | Phlebotomy needle (other than winged | | | 46 |  | 2 |  |  | |  | |  |  |  |
|  |  | steel needle) | |  |  |  |  | **Unknown/Not Answered/Nonclassifiable** | | **96** | |  | **3** |  |
|  |  |  | |  |  |  |  |  | |  | |  |  |  |
|  |  | | |  |  |  |  | **Total** | | **2,878** | |  | **100** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 12b.** | | | **Sharps injuries by device (detailed), Massachusetts hospital workers, 2022** | | | | | | | | | | | |
|  | | |  | N |  | % |  |  | | | N |  | % |  |
| **Hypodermic needles/syringe** | | | | **964** |  | **35** |  | **Glass** | | | **22** |  | **1** |  |
|  | Hypodermic needle attached to a | | | 855 |  | 31 |  |  | Specimen / Test / Vacuum tube | | 8 |  | <1 |  |
|  |  | disposable syringe | |  |  |  |  |  | Medication ampule / Vial / IV bottle | | 4 |  | <1 |  |
|  | Prefilled cartridge syringe | | | 44 |  | 2 |  |  | Slide | | 3 |  | <1 |  |
|  | Unattached hypodermic needle | | | 24 |  | 1 |  |  | Other glass item | 7 | |  | <1 |  |
|  | Hypodermic needle attached to IV | | | 14 |  | 1 |  |  |  | |  |  |  |  |
|  |  | tubing | | |  |  |  |  |  | |  |  |  |  |
|  | Hypodermic needle attached to a | | | 6 |  | <1 |  |  | | |  |  |  |  |
|  |  | non-disposable syringe | |  |  |  |  | **Dental Device or item** | | | **3** |  | **<1** |  |
|  | Hypodermic needle, unspecified | | | 21 |  | 1 |  |  | Dental bur | | 2 |  | <1 |  |
|  |  | | |  |  |  |  |  | Scaler/curette | | 1 |  | <1 |  |
| **Suture Needle** | | | | **471** |  | **17** |  |  |  | |  |  |  |  |
|  | Curved suture needle | | | 435 |  | 16 |  | **Other** | | | **291** |  | **11** |  |
|  | Straight suture needle | | | 16 |  | 1 |  |  | Electrode | | 29 |  | 1 |  |
|  | Suture needle, unspecified | | | 20 |  | 1 |  |  | Wire | | 30 |  | 1 |  |
|  |  | | |  |  |  |  |  | Bovie electrocautery device | | 11 |  | <1 |  |
| **Other Hollow Bore Needles** | | | | **329** |  | **12** |  |  | Lancet | | 30 |  | 1 |  |
|  | IV Stylet | | | 126 |  | 5 |  |  | Retractor | | 25 |  | 1 |  |
|  | Huber needle | | | 60 |  | 2 |  |  | Forceps | | 15 |  | 1 |  |
|  | Spinal or epidural needle | | | 17 |  | 1 |  |  | Scissors | | 27 |  | 1 |  |
|  | Biopsy needle | | | 25 |  | 1 |  |  | Drill bit | | 15 |  | 1 |  |
|  | Intraosseous needle | | | 4 |  | < |  |  | Cutting blade other than scalpel | | 10 |  | <1 |  |
|  | Other type of hollow bore needle | | | 49 |  | 2 |  |  | Pin | | 15 |  | 1 |  |
|  | Hollow bore needle, unspecified | | | 48 |  | 2 |  |  | Trocar | | 6 |  | <1 |  |
|  | | | |  |  |  |  |  | Bone cutter | | 7 |  | <1 |  |
| **Scalpel Blade** | | | | **191** |  | **7** |  |  | Staple | | 5 |  | <1 |  |
|  | | | |  |  |  |  |  | Bone chip/chipped tooth | | 5 |  | <1 |  |
| **Winged Steel Needle** | | | | **287** |  | **10** |  |  | Tenaculum | | 3 |  | <1 |  |
|  | Winged steel needle attached to a | | | 225 |  | 8 |  |  | Razor | | 6 |  | <1 |  |
|  |  | vacuum tube collection holder | |  |  |  |  |  | Other needle | | 1 |  | <1 |  |
|  | Winged steel needle | | | 54 |  | 2 |  |  | Other type of sharp object | | 48 |  | 2 |  |
|  | Winged steel needle attached to IV | | | 8 |  | <1 |  |  | Needle, unspecified | | 2 |  | <1 |  |
|  |  | tubing | |  |  |  |  |  | Solid bore harpoon | | 1 |  | <1 |  |
|  | | | |  |  |  |  |  |  | |  |  |  |  |
| **Vacuum Tube Collection Holder/Needle** | | | | **116** |  | **4** |  | **Unknown/Not Answered/** | | | **57** |  | **2** |  |
|  | Vacuum tube collection holder/needle | | | 55 |  | 2 |  |  | **Nonclassifiable** | |  |  |  |  |
|  | Phlebotomy needle (other than winged | | | 61 |  | 2 |  |  | | |  |  |  |  |
|  |  | steel needle) | |  |  |  |  |  | | |  |  |  |  |
|  |  |  | |  |  |  |  |  | | |  |  |  |  |
|  |  | | |  |  |  |  | **Total** | | | **2,743** |  | **100** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 13a.** | | **Sharps injuries by procedure (detailed), Massachusetts hospital workers, 2021** | | | | | | | | | | | |
|  |  | | N |  | % |  |  | | | N |  | % |  |
| **Injection** | | | **973** |  | **34** |  | **Line Procedures** | | | **269** |  | **9** |  |
|  | Subcutaneous injection | | 716 |  | 25 |  |  | To insert a peripheral IV line or | | 96 |  | 3 |  |
|  | Intramuscular injection | | 221 |  | 8 |  |  |  | set up a heparin lock |  |  |  |  |
|  | Epidural/spiral anesthesia | | 16 |  | 1 |  |  | Draw blood from central or | | 42 |  | 1 |  |
|  | Injection, unspecified | | 10 |  | <1 |  |  |  | peripheral IV line or port |  |  |  |  |
|  | Other injection | | 10 |  | <1 |  |  | To insert a central IV line | | 37 |  | 1 |  |
|  |  | |  |  |  |  |  | Other injection into IV site/port | | 32 |  | 1 |  |
| **Suturing** | | | **572** |  | **20** |  |  | To insert an arterial line | | 26 |  | 1 |  |
|  | Suturing | | 567 |  | 20 |  |  | Draw blood from arterial line  d  draw | | 13 |  | <1 |  |
|  | Suture removal | | 5 |  | <1 |  |  | To connect IV line | | 5 |  | <1 |  |
|  |  | |  |  |  |  |  | To flush heparin/saline | | 3 |  | <1 |  |
| **Blood Procedures** | | | **357** |  | **12** |  |  | Line procedure, unspecified | | 2 |  | <1 |  |
|  | Percutaneous venous puncture | | 299 |  | 10 |  |  | Other line procedure | | 13 |  | <1 |  |
|  | Percutaneous arterial puncture | | 21 |  | 1 |  |  | | |  |  |  |  |
|  | Finger stick / heel stick | | 21 |  | 1 |  | **Dental Procedures** | | | **10** |  | **<1** |  |
|  | Draw blood from umbilical vessel | | 9 |  | <1 |  |  | | |  |  |  |  |
|  | Dialysis / AV fistula site | | 3 |  | <1 |  |  | Dental drilling | | 3 |  | <1 |  |
|  | Blood procedure, unspecified | | 3 |  | <1 |  |  | Hygiene | | 2 |  | <1 |  |
|  | Other blood procedure | | 1 |  | <1 |  |  | Oral surgery | | 2 |  | <1 |  |
|  |  | |  |  |  |  |  | Restorative | | 2 |  | <1 |  |
| **Making the Incision** | | | **294** |  | **10** |  |  | Other dental | | 1 |  | <1 |  |
|  | Making the incision | | 247 |  | 9 |  |  |  | |  |  |  |  |
|  | Cauterization | | 13 |  | <1 |  |  |  | |  |  |  |  |
|  | Surgical procedure, unspecified | | 1 |  | <1 |  | **Other** | | | **201** |  | **7** |  |
|  | Other surgical procedure | | 33 |  | 1 |  |  | To obtain lab specimens | | 38 |  | 1 |  |
|  |  | |  |  |  |  |  | Transferring blood/body fluid to | | 19 |  | 1 |  |
| **To Obtain Body Fluid or Tissue Sample** | | | **55** |  | **2** |  |  | | another container <1 |  |  |  |  |
|  |  | |  |  |  |  |  | Drilling | | 14 |  | <1 |  |
|  |  | |  |  |  |  |  | Shaving | | 2 |  | <1 |  |
|  |  | |  |  |  |  |  | Other procedure | | 128 |  | 4 |  |
|  |  | |  |  |  |  |  |  | |  |  |  |  |
|  |  | |  |  |  |  |  | | |  |  |  |  |
|  |  | |  |  |  |  | **Unknown/Not answered** | | | **147** |  | **5** |  |
|  |  | |  |  |  |  |  | | |  |  |  |  |
|  |  | |  |  |  |  | **Total** | | | **2,878** |  | **100** |  |

For all tables presented, percentages may not total 100% due to rounding.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table 13b.** | | | **Sharps injuries by procedure (detailed), Massachusetts hospital workers, 2022** | | | | | | | | | | | |
|  |  | | | N |  | % |  |  | | | N |  | % |  |
| **Injection** | | | | **858** |  | **100** |  | **Making the Incision** | | | **292** |  | **11** |  |
|  | Subcutaneous injection | | | 657 |  | 24 |  |  | Making the incision | | 207 |  | 8 |  |
|  | Intramuscular injection | | | 166 |  | 6 |  |  | Surgical procedure, unspecified | | 8 |  | <1 |  |
|  | Epidural/spiral anesthesia | | | 15 |  | 1 |  |  | Cauterization | | 7 |  | <1 |  |
|  | Injection, unspecified | | | 11 |  | <1 |  |  | Other surgical procedure | | 70 |  | 3 |  |
|  | Other injection | | | 9 |  | <1 |  |  |  | |  |  |  |  |
|  |  | | |  |  |  |  | **To Obtain Body Fluid or Tissue Sample** | | | **38** |  | **1** |  |
| **Suturing** | | | | **477** |  | **17** |  |  | **Sample** | |  |  |  |  |
|  | Suturing | | | 472 |  | 17 |  |  |  | |  |  |  |  |
|  | Suture removal | | | 5 |  | <1 |  | **Dental Procedures** | | | **6** |  | **<1** |  |
|  |  | | |  |  |  |  |  | Dental drilling | | 1 |  | <1 |  |
| **Blood Procedures** | | | | **442** |  | **16** |  |  | Dental procedures, unspecified | | 1 |  | <1 |  |
|  | Percutaneous venous puncture | | | 347 |  | 13 |  |  | Oral surgery | | 2 |  | <1 |  |
|  | Percutaneous arterial puncture | | | 28 |  | 1 |  |  | Restorative | | 2 |  | <1 |  |
|  | Finger stick / heel stick | | | 28 |  | 1 |  |  |  | |  |  |  |  |
|  | Draw blood from umbilical vessel | | | 9 |  | <1 |  |  |  | |  |  |  |  |
|  | Dialysis / AV fistula site | | | 6 |  | <1 |  | **Other** | | | **204** |  | **7** |  |
|  | Blood procedure, unspecified | | | 24 |  | 1 |  |  | To obtain lab specimens | | 47 |  | 2 |  |
|  |  | | |  |  |  |  |  | Drilling | | 22 |  | 1 |  |
| **Line Procedures** | | | | **299** |  | **11** |  |  | Transferring blood/body fluid to | | 21 |  | 1 |  |
|  | To insert a peripheral IV line or | | | 114 |  | 4 |  |  | | another container |  |  |  |  |
|  | | set up a heparin lock | |  |  |  |  |  | Shaving | | 4 |  | <1 |  |
|  | Draw blood from central or | | | 50 |  | 2 |  |  | Other procedure | | 84 |  | 3 |  |
|  | | peripheral IV line or port | |  |  |  |  |  | Procedure, unspecified | | 1 |  | <1 |  |
|  | To insert a central IV line | | | 40 |  | 1 |  |  |  | |  |  |  |  |
|  | Other injection into IV site/port | | | 44 |  | 2 |  | **Unknown/Not answered** | | |  |  |  |  |
|  | To insert an arterial line | | | 19 |  | 1 |  |  |  | |  |  |  |  |
|  | Draw blood from arterial line  d  draw | | | 16 |  | 1 |  |  |  | |  |  |  |  |
|  | To connect IV line | | | 4 |  | <1 |  |  |  | |  |  |  |  |
|  | To flush heparin/saline | | | 1 |  | <1 |  |  |  | |  |  |  |  |
|  | Other line procedure | | | 11 |  | <1 |  |  |  | |  |  |  |  |
|  |  | | |  |  |  |  |  |  | |  |  |  |  |
|  |  | | |  |  |  |  |  | | |  |  |  |  |
|  |  | | |  |  |  |  | **Total** | | | **2,743** |  | **100** |  |

For all tables presented, percentages may not total 100% due to rounding.

|  |
| --- |
| **Resources** |
| * [DPH: Occupational Health Surveillance Program homepage](https://www.mass.gov/orgs/occupational-health-surveillance-program) (mass.gov/orgs/occupational-health-surveillance-program) * [CDC: Workbook for Designing, Implementing & Evaluating a Sharps Injury Prevention Program](https://www.cdc.gov/infection-control/hcp/sharps-safety/program-workbook.html)  (cdc.gov/infection-control/hcp/sharps-safety/program-workbook.html) * [NIOSH: Bloodborne Infectious Disease Risk Factors](https://www.cdc.gov/niosh/healthcare/risk-factors/bloodborne-infectious-diseases.html)  (cdc.gov/niosh/healthcare/risk-factors/bloodborne-infectious-diseases.html) * [OSHA: Bloodborne Pathogens and Needlestick Prevention](https://www.osha.gov/bloodborne-pathogens/standards)  (osha.gov/bloodborne-pathogens/standards) 3/31/25 |