

# EPINet Report for Needlestick and Sharp Object Injuries



Reporting period: Jan 01, 2017 to Dec 31, 2017

Total Records Read: 1329

- Facility where incident occurred: ALL
- Type of facility where occurred: ALL
- 3. Home/Employing department: ALL
- 3a. Dept where incident occurred: ALL
- 4. Job category: ALL
- 5. Where the injury occurred: ALL
- 7. Injured worker was original user: ALL
- 8. Was it contaminated? ALL
- 8a. Was there blood visible? ALL
- 9. Original purpose of sharp item: ALL
- 10. When the injury occurred: ALL
- 11. Type of device: ALL
- Device: ALL
- 12. Was item a "safety design"? ALL
- 12c. Type of safety mechanism: ALL
- 13. Did the device have needles on both ends? ALL
- 14. Did the incident result in an exposure to a hazardous drug? ALL
- 16. Depth of injury: ALL
- 17. If injury to hand, did the sharp item penetrate? ALL
- 18. Dominant hand of HCW: ALL
- 19. Employment status: ALL
- Was prophylaxis provided? ALL

Total rate: 33.8 per 100 ADC  
 Teaching rate: 36.8 per 100 ADC  
 Non-teaching rate: 24.4 per 100 ADC  
 ADC is Average Daily Census  
 31 hospitals

## 4. What is the job category of the injured worker?

|    |   |     |       |
|----|---|-----|-------|
| 1  | Doctor (attending.staff) specialty        | 181 | 13.8% |
| 2  | Doctor (intern/resident/fellow) specialty | 239 | 18.2% |
| 3  | Medical student                           | 23  | 1.7%  |
| 4  | Nurse                                     | 433 | 32.9% |
| 5  | Nursing student                           | 6   | 0.5%  |
| 6  | Respiratory therapist                     | 12  | 0.9%  |
| 7  | Surgery attendant                         | 166 | 12.6% |
| 8  | Other attendant                           | 35  | 2.7%  |
| 9  | Phlebotomist/ Venipuncture                | 35  | 2.7%  |
| 10 | Clinical laboratory worker                | 21  | 1.6%  |
| 11 | Technologist (non lab)                    | 55  | 4.2%  |
| 14 | EVS/Housekeeper                           | 22  | 1.7%  |
| 15 | Other, describe                           | 58  | 4.4%  |
| 16 | EMT/Paramedic/ First Responder            | 2   | 0.2%  |
| 17 | Other student                             | 8   | 0.6%  |
| 18 | C.N.A./H.H.A.                             | 17  | 1.3%  |
| 20 | Security                                  | 2   | 0.2%  |

Total records: 1,315

### 4a. Type of nurse:

May/08/2018

International Safety Center

Page 1 of 6

# EPINet Report for Needlestick and Sharp Object Injuries

|                |     |       |
|----------------|-----|-------|
| 1 RN           | 392 | 90.5% |
| 2 LPN/LVN      | 9   | 2.1%  |
| 3 NP           | 13  | 3.0%  |
| 4 CRNA         | 19  | 4.4%  |
| Total records: | 433 |       |

## 5. Where did the injury occur?

|                                |       |       |
|--------------------------------|-------|-------|
| 1 Patient room/ward            | 352   | 26.7% |
| 2 Outside patient room         | 3     | 0.2%  |
| 3 Emergency department         | 82    | 6.2%  |
| 4 Intensive/Critical care unit | 52    | 3.9%  |
| 5 Operating room/Recovery      | 633   | 48.0% |
| 6 Outpatient clinic/Office     | 88    | 6.7%  |
| 10 Procedure room              | 14    | 1.1%  |
| 11 Clinical laboratories       | 24    | 1.8%  |
| 12 Autopsy/Pathology           | 1     | 0.1%  |
| 13 Service/Utility area        | 19    | 1.4%  |
| 14 Other, describe             | 30    | 2.3%  |
| 16 Labor and delivery room     | 17    | 1.3%  |
| 17 Home-care                   | 3     | 0.2%  |
| Total records:                 | 1,318 |       |

## 6. Was the source patient identifiable?

|                |       |       |
|----------------|-------|-------|
| 1 Yes          | 1,189 | 92.5% |
| 2 No           | 44    | 3.4%  |
| 3 Unknown      | 36    | 2.8%  |
| 4 N/A          | 16    | 1.2%  |
| Total records: | 1,285 |       |

## 7. Was the injured worker the original user of the sharp item?

|                |       |       |
|----------------|-------|-------|
| 1 Yes          | 788   | 65.1% |
| 2 No           | 360   | 29.8% |
| 3 Unknown      | 35    | 2.9%  |
| 4 N/A          | 27    | 2.2%  |
| Total records: | 1,210 |       |

## 8. The sharp item was:

|                  |       |       |
|------------------|-------|-------|
| 1 Contaminated   | 1,207 | 91.2% |
| 2 Uncontaminated | 37    | 2.8%  |
| 3 Unknown        | 80    | 6.0%  |
| Total records:   | 1,324 |       |

## 8a. Was blood visible on the device?

|       |     |       |
|-------|-----|-------|
| 1 Yes | 664 | 55.7% |
|-------|-----|-------|

# EPINet Report for Needlestick and Sharp Object Injuries

|                |       |       |
|----------------|-------|-------|
| 2 No           | 172   | 14.4% |
| 3 Unknown      | 357   | 29.9% |
| Total records: | 1,193 |       |

## 9. For what purpose was the sharp item originally used?

|  |       |       |
|--|-------|-------|
| 1 Unknown/not applicable                         | 29    | 2.4%  |
| 2 Injection, intramuscular/subcutaneous          | 300   | 24.6% |
| 3 Heparin or saline flush                        | 7     | 0.6%  |
| 4 Other injection into IV injection site or port | 7     | 0.6%  |
| 5 To connect IV line                             | 5     | 0.4%  |
| 6 To start IV or setup heparin lock              | 29    | 2.4%  |
| 7 To draw a venous blood sample                  | 77    | 6.3%  |
| 8 To draw an arterial blood sample               | 26    | 2.1%  |
| 9 To obtain a body fluid or tissue sample        | 17    | 1.4%  |
| 10 Fingerstick/heel stick                        | 15    | 1.2%  |
| 11 Suturing                                      | 345   | 28.3% |
| 12 Cutting                                       | 100   | 8.2%  |
| 13 Electrocautery                                | 10    | 0.8%  |
| 14 To contain a specimen or pharmaceutical       | 1     | 0.1%  |
| 15 Other, describe                               | 214   | 17.5% |
| 16 To place an arterial/central line             | 17    | 1.4%  |
| 17 Drilling                                      | 22    | 1.8%  |
| Total records:                                   | 1,221 |       |

## 10. When did the injury occur?

|  |       |       |
|--|-------|-------|
| 1 Before use of item   | 17    | 1.4%  |
| 2 During use of item   | 627   | 51.8% |
| 3 Between steps of a multi-step procedure                              | 156   | 12.9% |
| 4 After use, while disassembling device or equipment                   | 24    | 2.0%  |
| 5 In preparation for reuse of reusable instruments                     | 27    | 2.2%  |
| 6 After use, while recapping a used needle                             | 38    | 3.1%  |
| 7 While withdrawing a needle from rubber or other resistance           | 5     | 0.4%  |
| 8 Other after use, before disposal                                     | 124   | 10.2% |
| 9 After use, from item left on or near disposal container              | 3     | 0.2%  |
| 10 During disposal, while putting the item into the disposal container | 24    | 2.0%  |
| 11 During disposal, stuck by item protruding from disposal container   | 11    | 0.9%  |
| 13 After disposal, item protruding from trash bag or inapp container   | 12    | 1.0%  |
| 14 Other, describe   | 104   | 8.6%  |
| 15 While restraining patient   | 6     | 0.5%  |
| 16 After use, device left on floor, table, bed or other inappropriate  | 32    | 2.6%  |
| Total records:   | 1,210 |       |

## 11. Which device caused the injury?

|                                |     |       |
|--------------------------------|-----|-------|
| 1 Disposable syringe           | 319 | 24.5% |
| 2 Pre-filled cartridge syringe | 16  | 1.2%  |
| 3 Blood gas syringe (ABG)      | 12  | 0.9%  |

# EPINet Report for Needlestick and Sharp Object Injuries

|    |  |     |       |
|----|--|-----|-------|
| 4  | Syringe, other type                        | 15  | 1.2%  |
| 5  | Needle on IV line                          | 6   | 0.5%  |
| 6  | Winged steel needle                        | 27  | 2.1%  |
| 7  | IV catheter stylet                         | 25  | 1.9%  |
| 8  | Vacuum tube blood collection holder/needle | 34  | 2.6%  |
| 9  | Spinal or epidural needle                  | 9   | 0.7%  |
| 10 | Unattached hypodermic needle               | 4   | 0.3%  |
| 11 | Arterial catheter introducer needle        | 6   | 0.5%  |
| 12 | Central line catheter introducer needle    | 5   | 0.4%  |
| 13 | Drum catheter needle                       | 3   | 0.2%  |
| 14 | Other vascular catheter needle             | 13  | 1.0%  |
| 15 | Other non-vascular catheter needle         | 4   | 0.3%  |
| 28 | Needle, not sure what kind                 | 27  | 2.1%  |
| 29 | Other needle, describe                     | 92  | 7.1%  |
| 30 | Lancet                                     | 10  | 0.8%  |
| 31 | Suture needle                              | 340 | 26.1% |
| 32 | Scalpel, reusable                          | 30  | 2.3%  |
| 33 | Razor                                      | 4   | 0.3%  |
| 35 | Scissors                                   | 12  | 0.9%  |
| 36 | Electro-cautery device                     | 14  | 1.1%  |
| 37 | Bone cutter                                | 4   | 0.3%  |
| 38 | Bone chip                                  | 1   | 0.1%  |
| 39 | Towel clip                                 | 4   | 0.3%  |
| 40 | Microtome blade                            | 5   | 0.4%  |
| 41 | Trocar                                     | 11  | 0.8%  |
| 45 | Scalpel, disposable                        | 61  | 4.7%  |
| 46 | Retractors, skin/bone hooks                | 23  | 1.8%  |
| 47 | Staples/Steel sutures                      | 4   | 0.3%  |
| 48 | Wire (suture, fixation, guide wire)        | 23  | 1.8%  |
| 49 | Pin (fixation, guide pin)                  | 7   | 0.5%  |
| 50 | Drill bit/Bur                              | 17  | 1.3%  |
| 51 | Pickups/Forceps/Hemostats/Clamps           | 11  | 0.8%  |
| 58 | Sharp item, not sure what kind             | 3   | 0.2%  |
| 59 | Other sharp item, describe                 | 91  | 7.0%  |
| 60 | Medication ampule                          | 1   | 0.1%  |
| 64 | Vacuum tube, glass                         | 1   | 0.1%  |
| 67 | Glass slide                                | 1   | 0.1%  |
| 79 | Other glass item, describe                 | 7   | 0.5%  |

Total records: 1,302

## 11a. Type of disposable needle used:

|   |               |    |       |
|---|---------------|----|-------|
| 1 | Insulin       | 85 | 27.2% |
| 2 | Tuberculin    | 34 | 10.9% |
| 3 | 24/25G needle | 65 | 20.8% |
| 4 | 23G needle    | 26 | 8.3%  |
| 5 | 22G needle    | 16 | 5.1%  |

# EPINet Report for Needlestick and Sharp Object Injuries

|   |            |    |       |
|---|------------|----|-------|
| 6 | 21G needle | 9  | 2.9%  |
| 7 | 20G needle | 8  | 2.6%  |
| 8 | Other      | 69 | 22.1% |

Total records: 312

## 12. If the item causing the injury was a needle or sharp medical device, was it a "safety design" with a shielded, recessed, retractable, or blunted needle or blade?

|   |         |     |       |
|---|---------|-----|-------|
| 1 | Yes     | 350 | 31.4% |
| 2 | No      | 687 | 61.7% |
| 3 | Unknown | 76  | 6.8%  |

Total records: 1,113

### 12a. If yes, was safety mechanism activated?

|   |                |     |       |
|---|----------------|-----|-------|
| 1 | Yes, fully     | 23  | 6.7%  |
| 2 | Yes, partially | 79  | 23.0% |
| 3 | No             | 228 | 66.5% |
| 4 | Unknown        | 13  | 3.8%  |

Total records: 343

### 12b. If yes, did the injury happen?

|   |                   |     |       |
|---|-------------------|-----|-------|
| 1 | Before activation | 167 | 49.0% |
| 2 | During activation | 101 | 29.6% |
| 3 | After activation  | 66  | 19.4% |
| 4 | Unknown           | 7   | 2.1%  |

Total records: 341

## 15. Location of the injury:

|    |             |     |       |
|----|-------------|-----|-------|
| 1  | Hand, right | 378 | 31.8% |
| 15 | Hand, left  | 754 | 63.4% |
| 30 | Other       | 58  | 4.9%  |

Total records: 1,190

## 16. Was the injury?

|   |   |     |       |
|---|---|-----|-------|
| 1 | Superficial-little or no bleeding       | 733 | 71.1% |
| 2 | Moderate-skin punctured, some bleeding  | 285 | 27.6% |
| 3 | Severe-deep stick/cut, profuse bleeding | 13  | 1.3%  |

Total records: 1,031

# EPINet Report for Needlestick and Sharp Object Injuries

## 17. If injury was to the hand, did the sharp item penetrate?

|                         |     |       |
|-------------------------|-----|-------|
| 1 Single pair of gloves | 638 | 65.0% |
| 2 Double pair of gloves | 300 | 30.6% |
| 3 No gloves             | 43  | 4.4%  |
| Total records: 981      |     |       |

## 18. Dominant hand of the injured worker:

|                    |     |       |
|--------------------|-----|-------|
| 1 Right-handed     | 543 | 91.6% |
| 2 Left-handed      | 50  | 8.4%  |
| Total records: 593 |     |       |