EPINet Report for Needlestick and Sharp Object Injuries

INTERNATIONAL SAFETY CENTER

Reporting period: Jan 01, 2018 to Dec 31, 2018   **Total Records Read: 1189**

Facility where incident occurred: **ALL**

Type of facility where occurred: **ALL**   **Total rate 29.7 per 100 ADC**

3. Home/Employing department: **ALL**   **Teaching rate: 30.7 per 100 ADC**

3a. Dept where incident occurred: **ALL**   **Non-teaching rate: 26.6 per 100 ADC**

4. Job category: **ALL**   **ADC is Average Daily Census**

5. Where the injury occurred: **ALL**   **34 hospitals**

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**

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

1	Doctor (attending.staff) specialty	193	16.4%
2	Doctor (intern/resident/fellow) specialty	197	16.8%
3	Medical student	12	1.0%
4	Nurse	409	34.8%
5	Nursing student	7	0.6%
6	Respiratory therapist	16	1.4%
7	Surgery attendant	107	9.1%
8	Other attendant	37	3.1%
9	Phlebotomist/ Venipuncture	31	2.6%
10	Clinical laboratory worker	13	1.1%
11	Technologist (non lab)	44	3.7%
14	EVS/Housekeeper	16	1.4%
15	Other, describe	62	5.3%
16	EMT/Paramedic/ First Responder	1	0.1%
17	Other student	10	0.9%
18	C.N.A./H.H.A.	19	1.6%
20	Security	1	0.1%

Total records: 1,175

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5. Where did the injury occur?

1 Patient room/ward	264	22.4%
2 Outside patient room	3	0.3%
3 Emergency department	102	8.7%
4 Intensive/Critical care unit	46	3.9%
5 Operating room/Recovery	521	44.3%
6 Outpatient clinic/Office	78	6.6%
10 Procedure room	73	6.2%
11 Clinical laboratories	11	0.9%
12 Autopsy/Pathology	2	0.2%
13 Service/Utility area	24	2.0%
14 Other, describe	33	2.8%
16 Labor and delivery room	15	1.3%
17 Home-care	5	0.4%

Total records: 1,177

6. Was the source patient identifiable?

1 Yes	1,076	92.6%
2 No	29	2.5%
3 Unknown	37	3.2%
4 N/A	20	1.7%

Total records: 1,162

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

1 Yes	697	70.1%
2 No	254	25.5%
3 Unknown	23	2.3%
4 N/A	21	2.1%

Total records: 995

8. The sharp item was:

1 Contaminated	1,055	90.1%
2 Uncontaminated	49	4.2%
3 Unknown	67	5.7%

Total records: 1,171

8a. Was blood visible on the device?

1 Yes	660	63.3%
2 No	133	12.8%
3 Unknown	249	23.9%

Total records: 1,042

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

1 Unknown/not applicable	21	2.1%
2 Injection, intramuscular/subcutaneous	254	25.3%
3 Heparin or saline flush	2	0.2%
4 Other injection into IV injection site or port	14	1.4%
5 To connect IV line	3	0.3%
6 To start IV or setup heparin lock	48	4.8%
7 To draw a venous blood sample	65	6.5%
8 To draw an arterial blood sample	17	1.7%
9 To obtain a body fluid or tissue sample	22	2.2%

10 Fingerstick/heel stick	10	1.0%
11 Suturing	273	27.2%
12 Cutting	73	7.3%
13 Electrocautery	14	1.4%
14 To contain a specimen or pharmaceutical	5	0.5%
15 Other, describe	159	15.9%
16 To place an arterial/central line	15	1.5%
17 Drilling	8	0.8%

Total records: 1,003

10. When did the injury occur?

1 Before use of item	13	1.3%
2 During use of item	537	55.0%
3 Between steps of a multi-step procedure	122	12.5%
4 After use, while disassembling device or equipment	23	2.4%
5 In preparation for reuse of reusable instruments	17	1.7%
6 After use, while recapping a used needle	18	1.8%
7 While withdrawing a needle from rubber or other resistance	7	0.7%
8 Other after use, before disposal	120	12.3%
9 After use, from item left on or near disposal container	1	0.1%
10 During disposal, while putting the item into the disposal container	17	1.7%
11 During disposal, stuck by item protruding from disposal container	6	0.6%
13 After disposal, item protruding from trash bag or inapp container	6	0.6%
14 Other, describe	74	7.6%
16 After use, device left on floor, table, bed or other inappropriate	16	1.6%

Total records: 977

11. Which device caused the injury?

1 Disposable syringe	282	24.1%
2 Pre-filled cartridge syringe	12	1.0%
3 Blood gas syringe (ABG)	15	1.3%
4 Syringe, other type	19	1.6%
5 Needle on IV line	5	0.4%
6 Winged steel needle	30	2.6%
7 IV catheter stylet	51	4.4%
8 Vacuum tube blood collection holder/needle	26	2.2%
9 Spinal or epidural needle	6	0.5%
10 Unattached hypodermic needle	6	0.5%
11 Arterial catheter introducer needle	9	0.8%
12 Central line catheter introducer needle	6	0.5%
13 Drum catheter needle	3	0.3%
14 Other vascular catheter needle	10	0.9%
15 Other non-vascular catheter needle	2	0.2%
28 Needle, not sure what kind	22	1.9%
29 Other needle, describe	80	6.8%
30 Lancet	10	0.9%
31 Suture needle	290	24.8%
32 Scalpel, reusable	18	1.5%
33 Razor	2	0.2%
35 Scissors	10	0.9%
36 Electro-cautery device	16	1.4%
37 Bone cutter	1	0.1%
38 Bone chip	3	0.3%
39 Towel clip	2	0.2%
40 Microtome blade	3	0.3%
41 Trocar	7	0.6%

42 Vacuum tube (plastic)	2	0.2%
44 Fingernails/Teeth	2	0.2%
45 Scalpel, disposable	50	4.3%
46 Retractors, skin/bone hooks	20	1.7%
47 Staples/Steel sutures	3	0.3%
48 Wire (suture, fixation, guide wire)	16	1.4%
49 Pin (fixation, guide pin)	7	0.6%
50 Drill bit/Bur	9	0.8%
51 Pickups/Forceps/Hemostats/Clamps	13	1.1%
58 Sharp item, not sure what kind	5	0.4%
59 Other sharp item, describe	81	6.9%
60 Medication ampule	2	0.2%
61 Medication vial	1	0.1%
64 Vacuum tube, glass	1	0.1%
67 Glass slide	2	0.2%
79 Other glass item, describe	10	0.9%

Total records: 1,170

11a. Type of disposable needle used:

1 Insulin	67	24.2%
2 Tuberculin	38	13.7%
3 24/25G needle	46	16.6%
4 23G needle	18	6.5%
5 22G needle	16	5.8%
6 21G needle	5	1.8%
7 20G needle	6	2.2%
8 Other	81	29.2%

Total records: 277

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	272	34.0%
2 No	472	58.9%
3 Unknown	57	7.1%

Total records: 801

12a. If yes, was safety mechanism activated?

1 Yes, fully	22	8.7%
2 Yes, partially	58	23.0%
3 No	166	65.9%
4 Unknown	6	2.4%

Total records: 252

12b. If yes, did the injury happen?

1 Before activation	116	46.0%
2 During activation	83	32.9%
3 After activation	50	19.8%
4 Unknown	3	1.2%

Total records: 252

13. Did the device have needles at both

2 No	1	50.0%
3 Unknown	1	50.0%

Total records: 2

15. Location of the injury:

1 Hand, right	291	33.3%
15 Hand, left	542	62.1%
30 Other	40	4.6%

Total records: 873

16. Was the injury?

1 Superficial-little or no bleeding	558	69.3%
2 Moderate-skin punctured, some bleeding	238	29.6%
3 Severe-deep stick/cut, profuse bleeding	9	1.1%

Total records: 805

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

1 Single pair of gloves	504	64.5%
2 Double pair of gloves	251	32.1%
3 No gloves	26	3.3%

Total records: 781

18. Dominant hand of the injured worker:

1 Right-handed	632	89.9%
2 Left-handed	71	10.1%

Total records: 703