International Healthcare Worker Safety Center University of Virginia

Reporting period: Jan 01, 2009 to Dec 31, 2009

Facility where occurred: ALL
Type facility where occurred: ALL
Dept where occurred: ALL
Home department: ALL
Job category: ALL

Where the injury occurred: ALL Injured worker original user? ALL Was it contaminated? ALL Original purpose of sharp item: ALL

When the injury occurred: INCLUDES injuries occurring before device was used

Type of device: ALL
Device: ALL
Dominant hand of HCW: ALL
Was item a "safety design"? ALL

Hospital & rate information:

Total # hospitals contributing data = 32 (9 teaching, 23 non-teaching)

- Total # injuries reported: 897
- Average daily census (ADC), all hospitals combined:
- Percutaneous injury (PI) rate, all hospitals: 20.2 per 100 occupied beds
- **Teaching hospitals**: total PIs =666; total ADC=3321; PI rate= 20.1 per 100 occupied beds
- Non-teaching hospitals: total PIs=231; ADC=1120;

PI rate=20.6 per 100 occupied beds

5. Job category:

1 Doctor (attending/staff) List specialty	124	13.9%
2 Doctor (intern/resident/fellow) List specialty	62	6.9%
3 Medical Student	21	2.4%
4 Nurse	388	43.4%
5 Nursing Student	5	0.6%
6 Respiratory Therapist	26	2.9%
7 Surgery Attendant	72	8.1%
8 Other Attendant	10	1.1%
9 Phlebotomist/Venipuncture/IV Team	36	4.0%
10 Clinical Laboratory Worker	8	0.9%
11 Technologist (non lab)	42	4.7%
12 Dentist	1	0.1%
13 Dental Hygienist	1	0.1%
14 Housekeeper	19	2.1%
15 Other, describe	59	6.6%
16 Paramedic	4	0.4%
17 Other Student	7	0.8%
18 CNA/HHA	6	0.7%
19 Laundry Worker	1	0.1%
20 Security	1	0.1%
Total Records: 893		

6. Where did the injury occur?

1	Patient Room/Ward	266	29.9%
2	Outside Patient Room	11	1.2%
3	Emergency Department	61	6.8%
4	Intensive/Critical Care Unit	68	7.6%
5	Operating Room/Recovery	316	35.5%
6	Outpatient Clinic/Office	34	3.8%

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8 Venipuncture Center	5	0.6%
	2	0.2%
9 Dialysis Facility		
10 Procedure Room	37	4.2%
11 Clinical Laboratories	12	1.3%
12 Autopsy/Pathology	4	0.4%
13 Service/Utility Area	10	1.1%
14 Other, describe	39	4.4%
16 Labor and Delivery Room	19	2.1%
17 Home-care	7	0.8%
Total Records: 891		
7. Was the source patient identifiable?		
1 Yes	836	93.7%
2 No	39	4.4%
3 Unknown	14	1.6%
4 N/A	3	0.3%
Total Records: 892		
8. Was the injured worker the original user of the sharp item?		
•	7	62.70/
1 Yes	566	63.7%
2 No	301	33.9%
3 Unknown	3	0.3%
4 N/A	19	2.1%
Total Records: 889		
9. Was the sharp item contaminated?		
•		
1 Contaminated	815	92.2%
2 Uncontaminated	25	2.8%
3 Unknown	44	5.0%
Total Records: 884		2.070
10. What was the original purpose of the sharp item?	•	
1 Unknown/not applicable	39	4.4%
2 Injection, intramuscular/subcutaneous	263	29.7%
3 Heparin or saline flush	4	0.5%
4 Other injection into IV injection site or port	13	1.5%
5 To connect IV line	5	0.6%
	41	4.6%
6 To start IV or setup heparin lock		
7 To draw a venous blood sample	90	10.1%
8 To draw an arterial blood sample	20	2.3%
9 To obtain a body fluid or tissue sample	17	1.9%
10 Fingerstick/heel stick	13	1.5%
11 Suturing	171	19.3%
12 Cutting	81	9.1%
13 Electrocautery	7	0.8%
14 To contain a specimen or pharmaceutical	2	0.2%
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15 Other, describe	101	11.4%
16 To place an arterial/central line	13	1.5%
17 Drilling	7	0.8%
Total Records: 887		
11. When did the injury occur?		
1 Before use of item	19	2.1%
2 During use of item	346	38.9%
3 Between steps of a multi-step procedure	99	11.1%
4 Disassembling device or equipment	36	4.0%
5 In preparation for reuse of reusable instruments	16	1.8%
6 While recapping a used needle	28	3.1%
7 Withdrawing a needle from rubber or other resistance	11	1.2%
8 Other after use, before disposal	156	17.5%
9 From item left on or near disposal container	2	0.2%
10 While putting the item into the disposal container	35	3.9%
11 After disposal, stuck by item protruding from disposal	5	0.6%
12 Item pierced side of disposal container	1	0.1%
13 After disposal, item protruding from trash bag or inapp	19	2.1%
14 Other, describe	82	9.2%
15 Restraining patient	2	0.2%
16 Device left on floor, table, bed or other inappropriate place	32	3.6%
Total Records: 889		
12. Type of device causing injury:		
	220	26.40/
1 Syringe, disposable	320	36.4%
2 Syringe, prefilled cartridge	29	3.3%
3 Syringe, blood gas	12	1.4%
4 Syringe, other type	2	0.2%
5 Needle on IV tubing	4	0.5%
6 Needle, Winged steel	33 27	3.8%
7 IV catheter		3.1%
8 Needle/holder vacuum tube blood collection	20	2.3%
9 Needle, spinal or epidural	5 2	0.6%
10 Needle, unattached hypodermic		0.2%
11 Needle, arterial catheter introducer	4 5	0.5%
12 Needle, central line catheter introducer		0.6%
14 Needle, other vascular catheter	1	0.1%
15 Needle, other non vascular catheter	6 12	0.7%
28 Needle, unknown type 29 Needle, describe	25	1.4% 2.8%
30 Lancet	11	1.3%
31 Suture Needle	162	
32 Scalpel, reusable	29	18.5%
33 Razor		3.3% 0.2%
35 Scissors	2 14	1.6%
22 20122012	14	1.0%

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36 Electrocautery Device	9	1.0%
37 Bone cutter	4	0.5%
38 Bone chip	4	0.5%
41 Trocar	6	0.7%
42 Vacuum tube, plastic	1	0.1%
44 Fingernails/teeth	2	0.2%
45 Scalpel, disposable	31	3.5%
46 Retractors, skin/bone hooks	11	1.3%
47 Staples, steel sutures	4	0.5%
48 Wire	11	1.3%
49 Pin	3	0.3%
50 Drill bit	5	0.6%
51 Pickup/forceps/hemostats	6	0.7%
58 Sharp item, not sure what kind	10	1.1%
59 Other sharp item (please describe)	33	3.8%
64 Vacuum tube, glass	1	0.1%
65 Specimen/test tube, glass	1	0.1%
78 Glass item, unknown type	5	0.6%
79 Glass item, other	6	0.7%
Total Records: 878		
12. If in increasing account has a modelle area it a lightful designing		
13. If injury was caused by a needle, was it a "safety design"?		
1 Yes	340	39.9%
2 No	445	52.2%
3 Unknown	67	7.9%
Total Records: 852		
13a. If yes, was safety mechanism activated?		
1 Yes, fully	36	11.1%
2 Yes, partially	77	23.7%
3 No	212	65.2%
Total Records: 325	212	03.270
12h If was when did the injury harmon?		
13b. If yes, when did the injury happen?		
1 Before activation	174	55.4%
2 During activation	86	27.4%
3 After activation	54	17.2%
Total Records: 314		
14. Location of injury as selected from list:		
Arm	16	1.8%
Back	1	0.1%
Face/Head	1	0.1%
Front	3	0.3%
Hand, left	516	58.8%
Hand, right	323	36.8%
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Leg Total Records: 877	17	1.9%
15. Depth of the injury:		
Superficial-little or no bleeding	506	57.2%
Moderate-skin punctured, some bleeding	319	36.1%
Severe-deep stick/cut, profuse bleeding	59	6.7%
Total Records: 884		
16. Did the sharp item penetrate?		
1 Single pair of gloves	591	68.3%
2 Double pair of gloves	187	21.6%
3 No gloves	87	10.1%
Total Records: 865		
17. Handedness of the injured worker:		
1 Right-handed	614	90.2%
2 Left-handed	67	9.8%
Total Records: 681		

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