

2010 EPINet Report: Blood and Body Fluid Exposures

International Healthcare Worker Safety Center University of Virginia

Reporting period: Jan 01, 2010 to Dec 31, 2010

Facility where exposure occurred: ALL

Type facility where occurred: ALL

3. Dept where incident: ALL

4. Home/Employing department: ALL

5. Job category: ALL

6. Where the exposure occurred: ALL

7. Source patient identifiable: ALL

8. Body fluid involved: ALL

8a. Body fluid contaminated with blood: ALL

12. Exposure was the result of: ALL

Hospital & rate information:

- Total # hospitals contributing data = 32 (9 teaching, 23 non-teaching)
- Total # BBF exposures reported: 306
- Average daily census (ADC), all hospitals combined: 4395
- Blood and body fluid (BBF) exposure rate, all hospitals: 6.96 per 100 occupied beds
- Teaching hospitals: total BBFs =246; total ADC=3258; BBF exposure rate= 7.55 per 100 occupied beds
- Non-teaching hospitals: total BBF exposures=60; ADC=1137; BBF exp. rate= 5.28 per 100 occupied beds

5. What is the job category of the exposed worker?

1 Doctor (attending.staff) specialty	14	4.6%
2 Doctor (intern/resident/fellow) specialty	9	3.0%
3 Medical student	3	1.0%
4 Nurse	154	50.8%
5 Nursing student	7	2.3%
6 Respiratory therapist	18	5.9%
7 Surgery attendant	11	3.6%
8 Other attendant	7	2.3%
9 Phlebotomist/ Venipuncture/ IV team	3	1.0%
10 Clinical laboratory worker	12	4.0%
11 Technologist (non lab)	16	5.3%
12 Dentist	1	0.3%
15 Other, describe	27	8.9%
16 Paramedic	3	1.0%
18 C.N.A./H.H.A.	12	4.0%
20 Security	6	2.0%

Total records: 303

6. Where did the exposure occur?

1 Patient room/ward	131	43.7%
2 Outside patient room	6	2.0%
3 Emergency department	28	9.3%
4 Intensive/Critical care unit	19	6.3%
5 Operating room/Recovery	47	15.7%
6 Outpatient clinic/Office	9	3.0%
7 Blood bank	4	1.3%
8 Venipuncture center	2	0.7%
9 Dialysis facility	1	0.3%
10 Procedure room	22	7.3%
11 Clinical laboratories	9	3.0%

2010 EPINet Report for Blood and Body Fluid Exposures

14 Other, describe	13	4.3%
16 Labor and delivery room	8	2.7%
17 Home-care	1	0.3%
Total records: 300		

7. Was the source patient identifiable?

1 Yes	283	94.3%
2 No	4	1.3%
3 Unknown	7	2.3%
4 N/A	6	2.0%
Total records: 300		

8. Which body fluids were involved in the exposure?

Blood or blood products	207	67.6%
Vomit	6	2.0%
Sputum	34	11.1%
Saliva	21	6.9%
CSF	2	0.7%
Peritoneal	2	0.7%
Pleural	2	0.7%
Amniotic	8	2.6%
Urine	20	6.5%
BFOther	51	16.7%
Total records: 306		

8a. Was the body fluid visibly contaminated with blood?

1 Yes	188	70.1%
2 No	56	20.9%
3 Unknown	24	9.0%
Total records: 268		

9. Was the exposed part?

Intact skin	129	42.2%
Non-intact skin	42	13.7%
Eyes (conjunctiva)	183	59.8%
Nose (mucosa)	16	5.2%
Mouth (mucosa)	25	8.2%
Other exposed parts	23	7.5%
Total records: 306		

10. Did the blood or body fluid?

Touch unprotected skin	258	84.3%
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2010 EPINet Report for Blood and Body Fluid Exposures

Touch skin between gap in protective garment	21	6.9%
Soaked through protective garment	4	1.3%
Soaked through clothing	10	3.3%
Total records: 306		

11. Which barrier garments were worn at the time of exposure?

Single pair of gloves	201	65.7%
Double pair of gloves	19	6.2%
Goggles	8	2.6%
Eyeglasses, (not protective)	39	12.7%
Eyeglasses with sideshields	4	1.3%
Faceshield	3	1.0%
Surgical mask	31	10.1%
Surgical gown	44	14.4%
Plastic apron	0	0.0%
Labcoat, cloth, (not protective)	6	2.0%
Labcoat, other	2	0.7%
Other	19	6.2%
Total records: 306		

12. Was the exposure was the result of?

1 Direct patient contact	170	57.2%
2 Specimen container leaked/spilled	17	5.7%
3 Specimen container broke	4	1.3%
4 IV tubing/bag/pump leaked/broke	14	4.7%
5 Other body fluid container spilled/leaked	11	3.7%
6 Touched contaminated equipment/surface	2	0.7%
7 Touched contaminated drapes/sheets/gown	3	1.0%
8 Unknown	1	0.3%
9 Other, describe	60	20.2%
10 Feeding/ventilator/other tube separated/leaked/spilled	15	5.1%
Total records: 297		

13. For how long was the blood or body fluid in contact with your skin or mucous membranes?

1 Less than 5 minutes	235	79.4%
2 5-14 minutes	35	11.8%
3 15 minutes to 1 hr	22	7.4%
4 More than 1 hr	4	1.4%
Total records: 296		

14. How much blood/body fluid came in contact with your skin or mucous membranes?

1 Small amount (up to 5 cc)	250	85.9%
2 Moderate amount (up to 50 cc)	24	8.2%

2010 EPINet Report for Blood and Body Fluid Exposures

3 Large amount (more than 50 cc)	17	5.8%
Total records: 291		

15a. Exposure location: Largest exposure

Arm	23	8.8%
Face/Head	196	75.1%
Foot	1	0.4%
Front	7	2.7%
Hand, left	12	4.6%
Hand, right	20	7.7%
Leg	2	0.8%
Total records: 261		

15b. Exposure location: Middle exposure

Arm	5	4.6%
Face/Head	87	79.8%
Foot	3	2.8%
Front	4	3.7%
Hand, left	4	3.7%
Hand, right	4	3.7%
Leg	2	1.8%
Total records: 109		

15c. Exposure location: Smallest exposure

Arm	6	15.4%
Face/Head	21	53.8%
Front	4	10.3%
Hand, left	1	2.6%
Hand, right	2	5.1%
Leg	5	12.8%
Total records: 39		