Table 1. Percutaneous Exposure Experience of Nursing Students (N = 274)

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| --- | --- | --- |
| *Sample Demographics* | n | % |
| Gender |
|  | Female | 243 | 88.7% |
|  | Male | 31 | 11.3% |
|  | Non-binary | 0 | 0 |
| Age (Mean 29.2, SD 7.6, Range 21 - 58) N = 274 |
|  | 19 – 24  | 89 | 32.5% |
|  | 25 – 30  | 92 | 33.6% |
|  | 31 – 40 | 69 | 25.2% |
|  | 41 – 50  | 15 | 5.5% |
|  | > 50 | 9 | 3.3% |
| Degree Program (N = 274) |
|  | ADN Program | 160 | 58.4% |
|  | BSN Program | 114 | 41.6% |
| US Census Region (N = 274) |
|  | Northeast | 63 | 23% |
|  | Midwest | 44 | 16% |
|  | South | 90 | 32.9% |
|  | West | 77 | 28.1% |
| *BBP Exposure Data* | n | % |
| How many needlestick exposure have you sustained during your undergraduate nursing program? (N = 266) |
|  | 1 | 246 | 92.5% |
|  | 2 | 11 | 4.1% |
|  | 4 or more | 9 | 3.4% |
| During what level(s) in your nursing program did these exposure(s) occur? (N = 274) |
|  | Level 1 | 25 | 9.1% |
|  | Level 2 | 134 | 48.9% |
|  | Level 3 | 63 | 23% |
|  | Level 4 | 35 | 12.8% |
|  | Level 5 | 12 | 4.4% |
|  | Level 6 | 5 | 1.8% |
| Was the needle or sharp item to which you were exposed contaminated with blood? (N = 245) |
|  | Yes | 211 | 86.1% |
|  | No | 34 | 13.9% |
| Was there visible blood on the device? (N = 245) |
|  | Yes | 99 | 40.4% |
|  | No | 123 | 50.2% |
|  | Unknown | 23 | 9.4% |
| Were you the original user of the needle or sharp item? (N = 245) |
|  | Yes | 213 | 86.9% |
|  | No | 32 | 13.1% |
| Please indicate the severity of your percutaneous injury\* (N = 245) |
|  | Superficial | 130 | 53.1% |
|  | Moderate | 115 | 46.9% |
|  | Severe | 0 | 0% |
| For what purpose what the needle or sharp item originally used? (N = 245) |
|  | IM/SC Injection | 141 | 57.6% |
|  | Insert IV Catheter | 76 | 31% |
|  | Connect IV Line | 5 | 2% |
|  | Draw Venous Sample | 5 | 2% |
|  | Other | 18 | 7.4% |
| When in the utilization process did the exposure occur? (N = 245) |
|  | Before Use | 25 | 10.2% |
|  | During Use | 73 | 29.8% |
|  | After Use | 111 | 45.3% |
|  | While Recapping | 4 | 1.6% |
|  | In Transit to Disposal | 9 | 3.7% |
|  | While Disposing  | 14 | 5.7% |
|  | While Activating Safety Device | 9 | 3.7% |
| What type of device caused the injury? (N = 245) |
|  | Hollow Bore Needle | 232 | 94.7% |
|  | Surgical Needle | 4 | 1.6% |
|  | Lancet | 9 | 3.7% |
| If the item causing the injury was a needle or sharp medical device, was it equipped with a safety device? (N = 245) |
|  | Yes | 202 | 82.5% |
|  | No | 43 | 17.5% |
| If the item causing the injury was equipped with a safety device, was the safety device activated? (N = 241) |
|  | Yes, Fully | 3 | 1.2% |
|  | Yes, Partially | 4 | 4.7% |
|  | No | 197 | 81.7% |
|  | No Safety Design | 32 | 13.3% |
|  | Unknown | 5 | 2.1% |
| When in the activation process did the injury occur? (N = 228) |
|  | Before Activation | 89 | 39% |
|  | During Activation | 24 | 10.5% |
|  | After Activation | 3 | 1.3% |
|  | Not a Safety Device | 37 | 16.2% |
|  | Not Activated | 75 | 33% |
| Were you wearing disposable gloves at the time of your injury? (N = 119) |
|  | Yes | 62 | 52.1% |
|  | No | 57 | 47.9% |
| \*Superficial = Superficial scratch with minimal to no bleeding. Moderate = Noticeable bleeding that is easily stopped. No closure needed. Severe = Deep cut or gash. Requires closure. |