

Use of Safety Blood Collection Sets in the Nursing Environment

Facts About the Dangers of Needlesticks
and the Costs Associated with Them

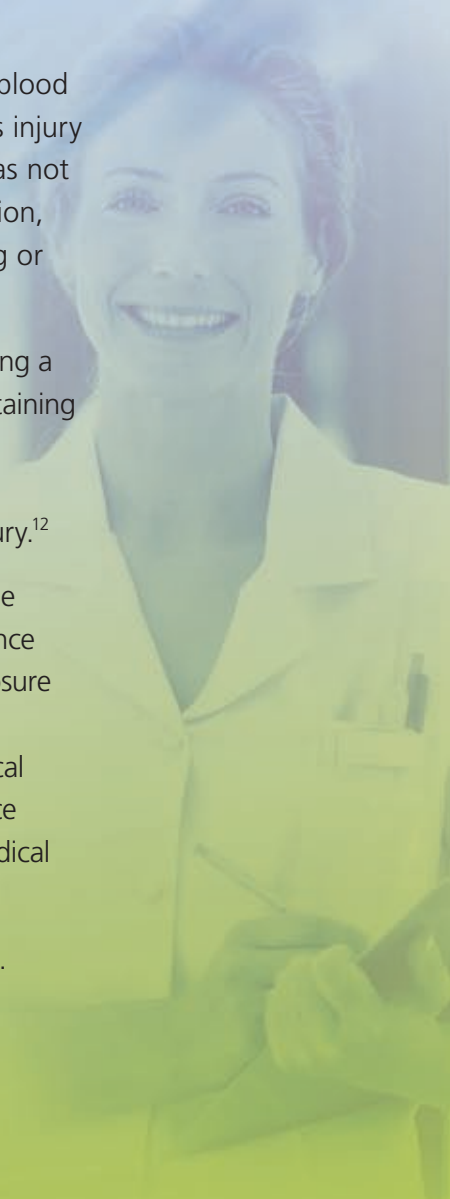


Helping all people
live healthy lives



Some Recent Facts About Needlesticks in the Nursing Environment

- It is estimated that the total U.S. annual rate of healthcare worker injuries that involve contaminated sharps is close to 650,000.¹ This estimate took into consideration the rate of percutaneous injury underreporting, which can in certain settings be as high as 73%.²
- The CDC estimates that every year more than 200 healthcare professionals die of work-acquired diseases, mostly hepatitis.³
- Over one-third (37.8%) of reported needlesticks are incurred by nurses.⁴
- 16% of all injuries sustained by nurses occurred while collecting a venous sample.⁵
- A study of the Johns Hopkins Hospital emergency room determined the prevalence of the HCV, HBV and HIV in blood samples from 2523 patients.⁶ Twenty-four percent were infected with one of the three viruses. Of those patients:
 - » 18% were seropositive for HCV
 - » 5% were seropositive for HBV
 - » 6% were seropositive for HIV
- The risk of becoming infected with HBV from a needlestick is as high as 30%, hepatitis C (HCV) is as high as 7%, and HIV is 0.3%.⁷
- Hepatitis C is now the leading reason for liver transplantation in the US.⁸
- Studies have documented the transmission of at least 30 different pathogens by accidental needlesticks.⁹
- A CDC study showed that 61% of percutaneous injuries occurred within seconds after the device was removed from the vein (e.g., before activation of the safety feature was possible).¹⁰
- In needlesticks to nurses involving a blood collection set with engineered sharps injury prevention, the safety mechanism was not activated in 74.4% of cases. In addition, 38.1% of the injuries occurred during or after activation.¹¹
- In 50% of the injuries to nurses involving a blood collection set, the individual sustaining the injury felt that other engineering protection, administrative controls or practices could have prevented the injury.¹²
- There are really no “minor” bloodborne pathogen exposures. Even in the absence of transmission of infection, each exposure event may subject workers to time consuming, stressful and painful medical follow-up, while employers or insurance companies must pay for expensive medical and compensation claims.¹³
- Behind each statistic is a human face.



...And Some Recent Facts About the Costs Associated with Needlestick Injuries

- The value of needlestick prevention is going up, as the cost of medical management of the injuries that occur will necessarily go up as new drugs are developed for new and existing bloodborne infections.¹³
- The medical cost alone of these largely preventable injuries is between \$540 and \$3,800 per incident,¹⁴ however recent EPITM data suggests that costs due to injuries involving blood collection sets can exceed \$5,000.¹²
- The cost of long-term medical complications, disability payments, lost wages, worker's compensation and insurance costs, lost work time, emotional distress suffered by injured workers, and potential legal liability can significantly increase the expense.
- In the case of hepatitis, a liver transplant can cost \$314,000 or more.¹⁵
- OSHA fines may be as high as \$11,340 per incident.¹⁶

"The BD Vacutainer® Push Button Blood Collection Set—what a gift to nursing! Its ease of use has increased caregiver satisfaction. What else could I ask for? Thank you, BD!"

Rosemary Linacre, RN,
Director of Value Analysis
Emory HealthCare, Atlanta, GA
August 2005
Started Using PBBCS
in December 2003

"We normally had three needlesticks a month. With the Push Button, since March 2004, I probably only have had four—in staff members who neglected to push the button."

Susan Sutherland – Health Services,
University of California-Davis Medical Center
August 2005
Started Using PBBCS in March 2004

"The safety of our staff is the first consideration for us. Since we've had the BD Vacutainer® Push Button Blood Collection Set, we have had no needlestick injuries! This single change to Push Button Blood Collection Sets has made an amazing change in our hospital."

Betty Ann Vencill, MBA, MT (ASP), CLS,
Safety Officer
Memorial Medical Center Laboratory, Modesto, CA
August 2005
Started Using PBBCS in August 2004

How the BD Vacutainer® Push Button Blood Collection Set Can Help Keep You and Your Staff Safe

- The BD Vacutainer® Push Button Blood Collection Set offers split-second protection for that single moment which could potentially change your life.
- In-vein activation of the push-button safety mechanism instantly helps protect you against needlestick injury.
- Ease of use reduces training requirements and is designed to improve activation compliance.
- In-vein activation reduces the risk of healthcare worker exposure to a contaminated needle without additional patient discomfort.
- Ideal for use in high-risk environments.
- One-handed safety activation allows for easy activation of the safety mechanism while attending to the patient/venipuncture site.
- Easier, safer blood collection for the healthcare worker, with no compromise to patient care.



The Only Blood Collection System
with Push-Button Technology Designed
to Significantly Increase Healthcare
Worker Safety and Help You
Comply with OSHA Regulations

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U.S. Patent Nos. 4,900,307 and 4,747,831 and patent pending.
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