

Group-5: Needle Stick Injury

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Occupational exposure

- Percutaneous injury (e.g., needle stick or cut with a sharp instrument);
- Contact with the mucous membrane of the eye or mouth;
- Contact with non-intact skin (particularly when the exposed skin is chapped, abraded, or afflicted with dermatitis);
- Contact with the intact skin when the contact duration is prolonged (e.g., several minutes or more) with blood or other potentially infectious body fluids.

Infectious specimen for needle stick, sharp and splash injury:

- *Potentially infectious body fluids* include blood, semen, vaginal secretions, CSF, synovial fluid, pleural fluid, peritoneal fluid, pericardial fluid, amniotic fluid or other body fluids contaminated with visible blood.
- The following are not considered potentially infectious, unless visibly contaminated with blood: Faeces, nasal secretions, saliva, sputum, sweat, tears, urine and vomitus.

Hazards of Needle stick Injuries

HBV (5-30%), HCV(3-10%) and HIV(0.3%) viral infections can spread by Needle stick Injuries

When do these injuries occur?

While Doing Procedure / Iv Line/Drawing Blood
Disposing Sharps
Suturing
Pre-operative
Giving Injection
Prick By Others
Recapping The Used Needle
Needle Poke From Garbage
Needle Not Disposed After Procedure
Lumbar Puncture / Bone Marrow
While Removing The Blade From Scalpel
Sterile Needle/Splash

Who gets injured?

- Nurses
- Doctors
- Operating room personnel
- Emergency room personnel
- Technicians
- Laundry handlers
- Housekeeping attendants

Which devices are involved?

- Hypodermic needles
- Blood collection needles
- Suture needles
- Needles used in IV delivery systems
- Scalpels







Precautions while handling sharp objects (like needles, lancets, scalpels, etc.):

- · Avoid unnecessary use of sharps and needles. Use of alternative instruments, cutting diathermy, and laser.
- Disposable needles should be used.
- Handle hollow bore needles with care as it may lead to deep injuries
- Never recap needles- If unavoidable, use single hand-scoop technique
- Never break/bend needles by hand
- Needles/sharps should not be left on trolleys and bed side tables and must be disposed of immediately
- Never pass used sharps from one person to another directly
- Dispose sharps in a puncture resistant container containing 10% sodium hypochlorite solution

DONT's











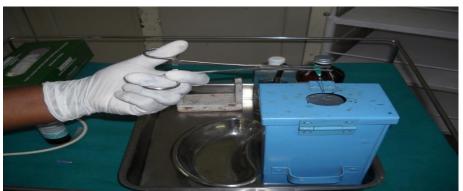




DO's











Principles

- Avoid recapping needles.
- Before beginning any procedure using needles, plan for safe handling and proper disposal.
- Help your employer select and evaluate devices with safety features.
- Use devices with safety features.
- Report all needle stick and other sharps-related injuries

Dos and Don'ts for the Exposed Individual

Don'ts	Do's
 Do not panic Do not place the pricked finger into the mouth reflexively Do not squeeze blood from wound Do not use bleach, alcohol, iodine, antiseptic, detergent, etc. 	 Stay calm Remove gloves, if appropriate Wash exposed site thoroughly with running water and soap. Irrigate thoroughly with water, if splashes have gone into the eyes or mouth Consult the designated physician/personnel immediately as per institutional guidelines, for management of the occupational exposure.

For skin:	For the eye:	For mouth:
- Immediately wash the	· Immediately irrigate the exposed eye	· Spit fluid out
wound and surrounding	thoroughly with running tap water or	immediately.
skin with water and soap,	normal saline at least for 5 min for blood	· Rinse the mouth
and rinse.	splash (15 min for chemical splash).	thoroughly using water
• Do not scrub.	· If wearing contact lenses, leave them in	or saline and spit again.
• Do not use antiseptics or	place while irrigating.	Repeat the process
skin washes	· Once the eye is cleaned, remove the	several times.
	contact lens and clean them in a normal	• Do not use soap or
	manner.	disinfectant in the
	• Do not use soap or disinfectant on the eye.	mouth.

To do

- First aid
- Check online report of source status if available
- If source of person is HIV +ve, take the first dose of PEP
- Report to designated centre for NSI management
- Testing for HIV, HBV and HCV for source and HCW
- Risk assessment (based on type of injury and source status)
- Decision on prophylactic treatment for HIV and HBV
- Monitoring and follow up of HIV, HBV, and HCV status
- Documentation and recording of exposure



THANK YOU