Sharon King KGN NIP
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Management of Sharps Injuries or Splash Incidents



Seriousness of complication		Frequency of complication	
Minor complication		Common	
Worrying complication		Occasional	
Moderate complication		Infrequent	
Serious, but not major	Х	Rare	Х
Major complication		Very rare	

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Management of Sharps Injuries or Splash Incidents

Definition:

Sharps Injury: Exposure to blood or body fluids caused by laceration or puncture of the skin (these can include bites or scratch by sharp). Sharps include needles, scalpels, broken glass or any items that my lacerate or puncture the skin.

Splash Incident: Where blood or body fluids comes into contact with the eyes, mouth, broken skin or mucous membranes.

Introduction:

An inoculation incident can occur to any person, a staff member, patient, visitor or contractor. Inoculation risk infections are primarily blood borne and pose a risk to those in whom blood to blood contact occurs and includes Hepatitis B, Hepatitis C and HIV¹.

Incidence:

An RCN survey carried out in 2008 of 4407 nurses found that just under half (48%) had been injured with a needle or sharp previously used on a patient and that 52% of those surveyed feared an injury. A significant number felt that they had received no or little training from their employer². A similar survey carried out among a group of UK surgeons showed that 44% anonymously admitted to having a needle-stick injury. Only 3 of the 33 (9%) who sustained a needle-stick injury said that they followed the agreed local policy³. Current data compiled by Public Health England in December 2014 warns that health care workers remain at risk from blood borne viruses⁴.

Areas of caution:

Health care workers are particularly at risk from exposure to blood-borne viruses. Accidental exposure to blood or other body fluids from patients can lead to infection if the patient is infected with a blood-borne virus such as HIV, Hepatitis B and Hepatitis C. Infection is not only damaging for health, it could prevent certain work within the healthcare setting.

Published and observed risk of blood borne virus transmission amongst health care workers following a percutaneous injury from a known infected patient¹:

Blood-borne virus	Risk of transmission
Hepatitis B (HBV)	1 in 3
Hepatitis C (HCV)	1 in 30
HIV	1 in 300

Blood-borne viruses are those viruses that are transmitted from the blood of one person to the blood of another person. Of particular concern are Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus (HIV).

Minimising the risk:

Vaccination

Hepatitis B infection can be effectively avoided by vaccination. There is currently no vaccine available for Hepatitis C (HCV) or HIV.

Prevention of avoidable exposure in an occupational setting

1. General measures

- Wash hands before and after contact with each patient and before putting on and after removing gloves.
- Change gloves between patients.
- Cover with waterproof dressings any existing wounds, skin lesions and all breaks in exposed skin and wear gloves if hands are extensively affected.
- Wear gloves where contact with blood can be anticipated.
- Avoid sharps usage where possible and where sharps usage is essential, exercise care in handling and disposal.
- Avoid wearing open footwear in situations where blood may be spilt or where sharp instruments or needles are handled.
- Clear up spillage of blood promptly and disinfect surfaces.
- Pre-employment occupational health assessment should identify those with damaged skin (e.g. fissured hand eczema) who may be at higher risk of occupationally acquired infection and ensure that advice is given about minimising any occupational health risk to which they may be exposed.
- Wear gloves when cleaning equipment prior to sterilisation or disinfection, when handling chemical disinfectant and when cleaning up spillages.
- Follow safe procedures for disposal of contaminated waste.

2. Specific measures (Dependent on the procedure being undertaken)

• Use of new, single-use disposable equipment for all injections is highly recommended. Re-usable equipment should only be considered if single use

is not available and if the sterility can be documented according to manufacturer's instructions with appropriate audit (e.g. time and temperature indicators).

- Discard contaminated sharps immediately and without recapping in puncture and liquid proof sharps containers.
- Document the quality of the sterilisation for all medical equipment used for percutaneous procedures.
- Wash hands with soap and water before and after procedures; use protective barriers such as gloves, gowns, aprons, masks and goggles for direct contact with blood and other body fluids.
- Disinfect instruments and other contaminated equipment.
- Handle soiled linen properly. Soiled linen should be handled as little as possible. Gloves and leak proof bags should be used if necessary. Cleaning should occur outside patient areas, using detergent and hot water.

National Institute for Health andClinicalExcellencerecommendations⁵

- 1. Safe use and disposal of sharps:
 - Sharps should not be passed directly from hand to hand and handling should be kept to a minimum.
 - Used needles must not be bent or broken before disposal and must not be recapped.
 - Used sharps must be discarded immediately by the person generating the sharps waste into a sharps container conforming to current standards.

- 2. Sharps containers:
 - Must be located in a safe position that avoids spillage, is at a height that allows the safe disposal of sharps, is away from public access areas and is out of the reach of children.
 - Must not be used for any other purpose than the disposal of sharps.
 - Must not be filled above the fill line.
 - Must be disposed of when the fill line is reached.
 - Should be temporarily closed when not in use.
 - Should be disposed of every three months even if not full, by the

licensed route in accordance with local policy.

- Use sharps safety devices if a risk assessment has indicated that they will provide safer systems of working for healthcare workers, carers and patients.
- 4. Train and assess all users in the correct use and disposal of sharps and sharps safety devices.

More detailed advice, including use of blunt-tipped needles, and 'neutral zones' for passing of sharps during surgery, are available in "Guidance for Clinical Health Care Workers"⁶.

The Aesthetic Complications Expert Group Protocol for the Immediate management of a sharps injury or splash incident



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The ACE Group have produced a series of evidence based and peer reviewed guidelines to help practitioners prevent and manage complications that can occur in aesthetic practice. These guidelines are not intended to replace clinical judgement and it is important the practitioner makes the correct diagnosis and works within their scope of competency. Some complications may require prescription medicines to help in their management and if the practitioner is not familiar with the medication, the patient should be appropriately referred. Informing the patient's General Practitioner is considered good medical practice and patient consent should be sought. It may be appropriate to involve the General Practitioner or other Specialist for shared care management when the treating practitioner is not able or lacks experience to manage the complication themselves. Practitioners have a duty of care and are accountable to their professional bodies and must act honestly, ethically and professionally.

Author

Sharon King RN NIP

Expert Group

Dr Martyn King (Chair) Emma Davies RN NIP (Vice Chair) Dr Cormac Convery Sharon King RN NIP Dr Lee Walker

Consensus Group

Sandra Lindon-Davies (Occupational Health Advisor)