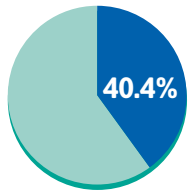


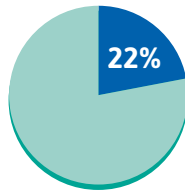


RISK AND PREVENTION OF SHARPS INJURIES IN THE OPERATING ROOM

The operating room (O.R.) is a high-risk environment for occupational injury.¹ Although sharp devices can cause injuries anywhere within the healthcare environment, data shows most injuries occur in the O.R.² Frequent passing, handling, and disposal of sharps bring opportunities for O.R. staff to sustain a sharps injury. Each sharps injury can potentially involve inadvertent exposure to serious bloodborne viral pathogens, such as, but not limited to: Hepatitis B, Hepatitis C, and Human Immunodeficiency virus (HIV).¹



40.4% of all reported occupational sharps injuries occur in the O.R.²



22% were sustained while passing sharp devices between members of the surgical team³

Injuries can cause direct and indirect costs to the individual and the workplace:³

- Employee loss of time
- Personnel time lost in investigating the injury
- Laboratory testing expense
- Post-exposure treatment cost
- Replacing or reassigning staff cost

Tips for Prevention of Sharps Injuries^{4,5,6}



Double Gloving

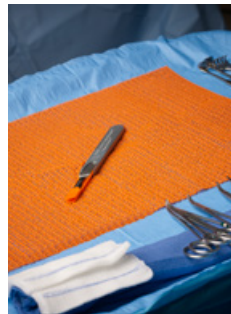
- Double gloving is recommended for all procedures
- Double gloving reduces the risk of exposure to patient blood by as much as 87% when the outer glove is punctured



Use Correct Technique

Improper technique can lead to sharps injuries:

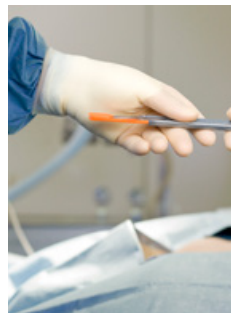
- Use instruments, rather than fingers, to grasp needles, load/unload suture and scalpels
- If required, one-handed recapping using the scoop method for hypodermic needles



Create a Neutral Zone

Protect yourself, co-workers, and patients:

- Limit certain areas for sharps only
- Define the area, allowing flexibility for emergency situations
- Allow one instrument at a time in the zone
- Openly communicate what, when, and how the neutral zone will work



Use Alternative Engineering Control Methods

- **Cutting:** electrocautery, ultrasonic scalpels
- **Suture:** blunt needles, stapling devices, adhesive strips, glues
- **Instruments:** blunt vs. sharp, protective caps on sharp instruments when not in use
- **Scalpels:** with safety shields

References:

1. Jagger J, Berguer R, Phillips EK, Parker G, Goma AE. Increase in sharps injuries in surgical settings versus nonsurgical settings after passage of national needlestick legislation. *Journal of the American College of Surgeons*. Apr 2010;210(4):496-502.
2. International Safety Center, EpiNet reports, 2022, <https://internationalsafetycenter.org/exposure-reports/>, accessed November 29, 2023.
3. Bevan V, Blake P, Radwan RN, Azzopardi E. Sharps and needlestick injuries within the operating room: Risk prone procedures and prevalence meta-analysis. *J Perioper Pract*. 2023;33(7-8):200-210.
4. Association of Operating Room Nurses. AORN Guidance Statement: Sharps Injury Prevention in the Perioperative Setting. Denver: Association of Operating Room Nurses; 2018
5. Berguer R., Key strategies for eliminating sharps injuries during surgery. *AORN Journal*. 2011; 94(1):91-96.
6. Centers for Disease Control and Prevention. Stop Sticks Campaign. CDC Website. Accessed November 29, 2023. <https://www.cdc.gov/nora/councils/hcsa/stopsticks/sharpsinjuries.html>