

Guideline for Sharps Safety Evidence Review and PRISMA 2020

EVIDENCE REVIEW

The Guideline for Sharps Safety was approved by the AORN Guidelines Advisory Board and became effective January 1, 2025.

A medical librarian with a perioperative background conducted a systematic search of the databases Ovid MEDLINE®, Ovid Embase®, EBSCO CINAHL®, and the Cochrane Database of Systematic Reviews. The search was limited to literature published in English from January, 2018 through November, 2023. At the time of the initial search, weekly alerts were created on the topics included in that search. Results from these alerts were provided to the lead author until June, 2024. The lead author requested additional articles that either did not fit the original search criteria or were discovered during the evidence appraisal process. The lead author and the medical librarian also identified relevant guidelines from government agencies, professional organizations, and standards-setting bodies.

Included were research and non-research literature in English, complete publications, and publications with dates within the time restriction when available. Historical studies were also included. Excluded were non-peer-reviewed publications and older evidence within the time restriction when more recent evidence was available. Editorials, news items, and other brief items were excluded. Low-quality evidence was excluded when higher-quality evidence was available, and literature outside the time restriction was excluded when literature within the time restriction was available. Articles identified in the search were provided to the project team for evaluation. The team consisted of the lead author and one evidence appraiser. The lead author and the evidence appraiser reviewed and critically appraised each article using the AORN Research or Non-Research Evidence Appraisal Tools as appropriate. A third appraiser was consulted if there was a disagreement between the lead author and the primary evidence appraiser. The literature was independently evaluated and appraised according to the strength and quality of the evidence. Each article was then assigned an appraisal score. The appraisal score is noted in brackets after each reference as applicable. Each recommendation rating is based on a synthesis of the collective evidence, a benefit-harm assessment, and consideration of resource use. The strength of the recommendation was determined using the AORN Evidence Rating Model and the quality and consistency of the evidence supporting a recommendation. The recommendation strength rating is noted in brackets after each recommendation. See the PRISMA 2020 flow diagram (Figure 1) below for more information about the systematic review and nature of included studies and resources.

Figure 1: PRISMA 2020 Flow Diagram

Identification of new studies via databases and registers Identification of new studies via other methods Ovid Medline, Healthstar, AMED, Health & Psychosocial Instruments, Nursing Database, Ovid JBI and Cochrane, ved before screening Web sites: 10 / Specialized Database: 4 Alerts: 80 Author Request: 10 Author Suggestion: 2 TOTAL: 203 Web sites: 107 Duplicates removed: 5 ved by Librarian: 39 Ovid Embase: 139 EBSCO Cinabl: 96 TOTAL: 44 TOTAL: 235 Screened: 191 Excluded: 101 Sought for retrieval: 203 Sought for retrieval: 90 Not retrieved: 6 Not retrieved: 180 Assessed for eligibility: 84 Excluded: Assessed for eligibility: 23 cluded: Lower Quality: 3 No Guidance: 3 Out of Scope: 2 TOTAL: 8 Out of Scope: 9 Unable to Obtain full text: 1 Lower Quality: 30 No Guidance: 2 TOTAL: 42

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71. For more information, visit: https://www.prisma-statemer

PRISMA 2020 flow diagram for updated systematic reviews which included searches of databases, registers and other sources

Included from other method: From previous guideline: 42

Total cited: 99

On November 30, 2023, a medical librarian with a perioperative background conducted searches for relevant publications on websites of organizations selected by the author (including government departments). Full details of these supplementary searches is included in the Supplementary Content on the aorn.org web site. These results were also screened by two screeners: the medical librarian, and then the lead author.

On November 27, 2023, a medical librarian with a perioperative background conducted a systematic search of 17 health science databases, the names and date coverage of which are given in Table 1. These results were screened by the medical librarian, and then the lead author.

Table 1: Databases searched and coverage

| Database | Coverage |
|---|--------------------------------------|
| AORN Full Text Journals@Ovid | November 7, 2023 |
| Books@Ovid | November 7, 2023 |
| JBI EBP Database | Current to November 22, 2023 |
| EBM Reviews: ACP Journal Club | 1991 to October 2023 |
| EBM Reviews: Cochrane Central Register of Controlled Trials | October 2023 |
| EBM Reviews: Cochrane Database of Systematic Reviews | 2005 to November 15, 2023 |
| EBM Reviews: Cochrane Methodology Register | 3rd Quarter 2012 |
| EBM Reviews: Database of Abstracts of Reviews of Effects | 1st Quarter 2016 |
| EBM Reviews: Health Technology Assessment | 4th Quarter 2016 |
| EBM Reviews: NHS Economic Evaluation Database | 1st Quarter 2016 |
| AMED (Allied and Complementary Medicine) | 1985 to October 2023 |
| Embase | 1974 to 2023 November 28 |
| Health and Psychosocial Instruments | 1985 to October 2023 |
| Ovid Healthstar | 1902 to 1998, 1999 to August 2023 |
| Ovid MEDLINE(R) ALL | 1946 to November 28, 2023 |
| Ovid Nursing Database | 1946 to November Week 3 2023 |
| CINAHL Complete via EBSCOhost | 1937 to Current |

Search strategy development process: The medical librarian referred to a search strategy used for the previous Guideline. A draft search strategy was developed using terms listed in the previous strategy and additional search terms identified from a meeting with the lead author. Using the MeSH Subject Headings database, additional search terms were identified and added to the search strategy. The strategy was limited following the constraints in the eligibility criteria outlined by the lead author.

Editor's note: MEDLINE is a registered trademark of the US National Library of Medicine's Medical Literature Analysis and Retrieval System, Bethesda, MD. Embase is a registered trademark of Elsevier B.V., Amsterdam, The Netherlands. CINAHL, Cumulative Index to Nursing and Allied Health Literature, is a registered trademark of EBSCO Industries, Birmingham, AL.

Search Strategies

Ovid (Medline, Cochrane, and Embase)

1 "Perioperative nursing"/st, sn or Surgeons/sn or "Operating room technicians"/ed, st, sn or "operating room nursing".de,sh,hw. or ("perioperative nursing" or "operating")



room staff" or "Perianesthesia nursing" or "surgical nurse" or "perioperative nurse" or "Scrubbed personnel" or "surgical technologist").ti,ab. "operating rooms"/st or ("procedure room" or "sterile processing department" or 2 44,086 "instrument processing" or "cardiac catheterization laboratory" or "interventional radiology").ti,ab,kw. or ((surgical or endoscopy) and suite).ti,ab,kw. or ((surgical or operating) and theat\$).ti,ab,kw. 3 1 or 2 68,129 (Needles or "surgical instruments" or Sutures or Syringes or "Bone wires" or "surgical 155,371 stapling").de,sh,hw. 5 (Sharps or scalpels or "surgical instruments" or sutures or (surgical and (scissors or 113.648 hooks or staples)) or (hypodermic and (needles or syringe))).ti,ab,kw. 6 "Infection control"/is or "protective devices".de,sh,hw. 37,579 7 (((blunt and tip) adj2 needles) or (safety and (devices or scalpels or "engineered 77.686 sharps")) or ("hands-free passing" or "neutral zone" or "double gloving" or "protective devices" or "standard precautions") or (("chain mail" or mesh or indicator) and glov\$)).ti,ab,kw. 8 (("virus inhibiting" or "bacteria inhibiting") and glov\$).ti,ab,kw. 9 9 ("needlestick injuries" or "blood-borne pathogens" or "universal 17,709 precautions").de,sh,hw. (((sharps or scalpel) and injur\$) or (recapping or "blood-borne pathogens" or 14,658 10 "bloodborne pathogens" or "universal precautions")).ti,ab,kw. (needlestick or "needle-stick" or ((Needlestick or "needle-stick") adj2 injur\$) or (needle 11 10,201 and (injur\$ and stick))).ti,ab,kw. ((wire or kirschner or "k-wire") adj (injur\$ or stick)).ti,ab,kw. 1,230 12 ("accidents, occupational" or "occupational injuries" or "occupational 261,214 exposure").de,sh,hw. or ("blood exposure accident" or "Occupational blood exposure" or "percutaneous exposure" or "Percutaneous injury" or "Occupational accidents" or "occupational-related injuries").ti,ab,kw. 14 4 or 5 or 6 or 7 or 8 358,309 15 9 or 10 or 11 or 12 or 13 288,300 14 and 15 16 15.271 17 3 and 16 398 18 (Rate adj2 (injur\$ or transmission)).ti,ab,kw. 30.351 19 18 and (8 or 9 or 10) 285 20 exp "Health Disparate, Minority and Vulnerable Populations"/ or ("vulnerable 209,043 communities" or "inner city health care organizations" or "urban health care organizations").ti,ab,kw. or ((minority or "health disparate" or "medically underserved") adj2 population).ti,ab,kw. 21 19 and 20 22 "Post-exposure prophylaxis".de,sh,hw. or "post exposure prophylaxis".ti,ab,kw. 12,715 23 22 and (8 or 9 or 10) 733 24 ("Safety device availability" or "safety devices").ti,ab,kw. 2,124 25 ((economic adj2 barrier) or ("vulnerable communities" or "inner city health care 2,682 organizations" or "urban health care organizations")).ti,ab,kw. 26 24 and 25 0 27 (("Skin pigmentation" or "skin color" or "skin tone") adj6 "indicator glove").ti,ab,kw. 17 or 21 or 23 or 26 or 27 1,128 28



| 29 | remove duplicates from 28 | 552 |
|---------------|---|--------|
| 30 | limit 29 to english language | 504 |
| 31 | limit 30 to human | 467 |
| 32 | limit 31 to yr="2018 -Current" | 94 |
| 33 | limit 32 to humans | 94 |
| | | |
| EBSC | Ohost (CINAHL) | |
| staff" | (MH "Surgical Technologists") OR (MH "Operating Room Nursing") OR (MH operative Nursing") OR (MH "Surgeons") OR "perioperative nursing" or "operating room or "Perianesthesia nursing" or "surgical nurse" or "perioperative nurse" or "Scrubbed nnel" or "surgical technologist" | 36,124 |
| | ("procedure room" or "sterile processing department" or "instrument processing" or ac catheterization laboratory" or "interventional radiology") OR (((surgical or scopy) and suite)) OR (((surgical or operating) and theat*)) | 12,380 |
| S3 | S1 OR S2 | 47,621 |
| S4 "Syrin | (MH "Surgical Stapling") OR (MH "Surgical Instruments") or (MH "Needles") OR (MH ges") OR (MH "Sutures") | 16,435 |
| S5 (surgi | (Sharps or scalpels or "surgical instruments" or sutures OR "bone wires") OR (cal and (scissors or hooks or staples))) OR ((hypodermic and (needles or syringe))) | 35,209 |
| S6 | (MH "Protective Devices") OR (MH "Infection Control") | 34,621 |
| | (((blunt and tip) N2 needles) or (safety and (devices or scalpels or "engineered s"))) OR ("hands-free passing" or "neutral zone" or "double gloving" or "protective es" or "standard precautions") OR ((("chain mail" or mesh or indicator) and glov*)) | 28,861 |
| S8 | (("virus inhibiting" or "bacteria inhibiting") and glov*) | 1 |
| | (MH "Universal Precautions") OR (MH "Bloodborne Pathogens") OR (MH dlestick Injuries") OR ((sharps or scalpel) and injur*)) OR (recapping or "blood-borne gens" or "bloodborne pathogens" or "universal precautions") | 8,567 |
| S10 ((nee | (needlestick or "needle-stick") OR (((Needlestick or "needle-stick") N2 injur*)) OR dle and (injur* and stick))) | 4,342 |
| S11 | ((wire or kirschner or "k-wire") N1 (injur* or stick)) | 69 |
| S12 | (MH "Occupational-Related Injuries") OR (MH "Accidents, Occupational") OR (MH ipational Exposure") OR "blood exposure accident" or "Occupational blood exposure" | 36,993 |
| or "pe | pational injuries" | |
| or "pe | rcutaneous exposure" or "Percutaneous injury" or "Occupational accidents" or | 98,177 |



| S15 | S13 AND S14 | 6,735 |
|-----------------|---|-------|
| S16 | S3 AND S15 | 301 |
| S17 | (Rate N2 (injur* or transmission)) | 6,986 |
| S18 | S8 OR S9 | 8,567 |
| S19 | S17 AND S18 | 140 |
| | (("vulnerable communities" or "inner city health care organizations" or "urban health ganizations") OR ("Minority and Vulnerable Populations") OR ((minority or "health te" or "medically underserved") N2 population)) | 3,942 |
| S21 | S19 AND S20 | 0 |
| S22 | (MH "Postexposure Follow-Up") OR "post exposure prophylaxis" | 2,125 |
| S23 | S18 AND S22 | 388 |
| S24 | "Safety device availability" or "safety devices" | 4,860 |
| S25 organiza | (economic N2 barrier) OR ("vulnerable communities" or "inner city health care ations" or "urban health care organizations") | 882 |
| S26 | S24 AND S25 | 1 |
| S27 | ("Skin pigmentation" or "skin color" or "skin tone") N6 "indicator glove") | 0 |
| S28 | S16 OR S21 OR S23 OR S26 OR S27 | 704 |
| | S16 OR S21 OR S23 OR S26 OR S27 s - Publication Date: 20180101-20231131; English Language; Peer Reviewed; e] Human | 30 |

Web Searches// All searches conducted in 2023.

12/6: Used google.com to navigate to ECRI, ecri.org. 2] Chose "Browse Topics" and then "Clinical Specialty" tab. 4] Chose "Surgery." 3] Clicked "Advanced Search" on right, specified date range as 1/1/2018 to today. 4] Browsed results, saved for author screening

12/6: Used google.com to navigate to ECRI, ecri.org. 2] Searched for "sharps" in search bar. 3] Browsed results, saved for author screening.

12/5: Used google.com to navigate to astm.org. 2] Searched for "Gloves" in search box. 3] Browsed results, saved for author screening. (x2)

12/5: Used google.com to navigate to the American Academy of Orthopaedic Surgeons, aaos.org. 2] Chose "About AAOS" from top navigation bar. 3] Chose "About the AAOS" from sub-menu. 4] Scrolled to "Bylaws, Policies & Statements." 5] Chose "Statements & Resolutions." 6] Chose "Information Statements." 7] Browsed results, saved for author screening.



- 12/5: Used google.com to navigate to the American Assoc of Nurse Anesthesiology, aana.com. 2] Chose "Practice" from the top navigation menu. 3] Scrolled to "Professional Practice Manual" and scrolled to "Sections of the Manual." Expanded all sections. 4] Browsed results, saved for author screening.
- 12/5: Used google.com to navigate to the American Society of Anesthesiologists (asahq.org). 2] Under "Research & Guidelines" from navigation menu, chose "ASA Standards, Guidelines, and Statements." 3] Browsed results, saved for author review.
- 12/5: Used google.com to navigate to the Association of Surgical Technologists web site, ast.org. 2] Chose "Position Statements" under "About" from the top navigation menu. 3] Chose "CSPS Statements" from "Position Statements." 4] Browsed results, saved for author screening.
- 12/5: Used google.com to navigate to the Association of Surgical Technologists web site, ast.org. 2] Chose "Position Statements" under "About" from the top navigation menu. 3] Chose "Position Statements" from "Position Statements." 4] Browsed results, saved for author screening.
- 12/5: Used google.com to navigate to the Association of Surgical Technologists web site, ast.org. 2] Chose "Position Statements" under "About" from the top navigation menu. 3] Chose "Aseptic Technique" from "Position Statements." 4] Browsed results, saved for author screening.
- 12/5 Used google.com to navigate to World Health Organization, who.int. 2] Chose "Health Topics" from menu at top navigation. 3] Chose "Tools and toolkits." 4] Scrolled to "Occupational hazards in the health sector." 5] Chose "Occupational Infections." 6] Browsed results, saved for author screening. (x3)
- 12/5 Used google.com to navigate to World Health Organization, who.int. 2] Chose "Health Topics" from menu at top navigation. 3] Under "Resources" heading, chose "Publications." 4] From main "Publications" page, chose "All" on right. 5] In "Health Topic" field, chose "Hepatitis." 6] Browsed results, saved for author screening.
- 12/5 Used google.com to navigate to World Health Organization, who.int. 2] Chose "Health Topics" from menu at top navigation. 3] Under "Resources" heading, chose "Publications." 4] From main "Publications" page, chose "All" on right. 5] In "Health Topic" field, chose "HIV" and narrowed "Publication Type" to "Guidelines." 6] Browsed results, saved for author screening. (x2)
- 12/5 Used google.com to navigate to World Health Organization, who.int. 2] Chose "Health Topics" from menu at top navigation. 3] Under "Resources" heading, chose "Publications." 4] From main "Publications" page, chose "All" on right. 5] In "Health Topic" field, chose "Injections." 6] Browsed results, saved for author screening.
- 12/5 Used google.com to navigate to World Health Organization, who.int. 2] Chose "Health Topics" from menu at top navigation. 3] Under "Resources" heading, chose "Publications." 4] From main "Publications" page, chose "All" on right. 5] In "Health Topic" field, chose "Medical devices." 6] Browsed results, saved for author screening.
- 12/5: Author requested resources from APIC. Used google.com to navigate to apic.org. 2] Under "Resources" menu at the top, chose "Topic-specific infection prevention." 3] Scrolled to "Vaccine Preventable Diseases." 4] Browsed results, saved for author screening.
- 12/5: Author requested resources from APIC. Used google.com to navigate to apic.org. 2] Under "Resources" menu at the top, chose "Topic-specific infection prevention." 3] Scrolled to "Vaccine Preventable Diseases." 4] Browsed results, navigated to World Health Org resource. 5] Scrolled to "Complete list of WHO Vaccines Position Papers"; browsed results, saved for author screening.
- 12/4: Used google.com to search for "hicpac". 2] Chose first result, https://www.cdc.gov/hicpac/index.html. 3] Followed link to "Guidelines & Guidance Library." 4] Browsed statements, saved for author review.
- 12/4: Used google.com to search "american college of surgeons." 2] Chose the "For Medical Professionals" option from top left of screen. 3] From "Menu" in upper right corner, under "About Us," chose "Statements." 4] Browsed statements, saved for author review. (x3)
- 12/4: Used google.com to search "dnv healthcare". 2] Scrolled to result mentioning NIAHO Accreditation. 3] Scrolled to "DNV Hospital Accreditation" heading. 4] Browsed results, saved for author screening.
- 12/4: Used google.com to search "sharps site:jointcommission.org". 2] Browsed results. 3] Saved result for author screening.
- 12/4: Used google.com to navigate to The National Institute for Occupational Safety and Health (NIOSH), cdc.gov/niosh/index.htm. 2] Scrolled to "NIOSH A-Z Index"; chose "Sharps" under "S". 3] Scrolled to "Resources" box; chose "Protection Healthcare Personnel." 4] Scrolled to "Occupational Infection Prevention." 5] Saved for author screening. (x6)



- 12/4: Used google.com to navigate to The National Institute for Occupational Safety and Health (NIOSH), cdc.gov/niosh/index.htm. 2] Scrolled to "NIOSH A-Z Index"; chose "Sharps" under "S". 3] Scrolled to link under "Medical Providers" heading, sending me to the Univ of California San Francisco's National Clinician Consultation Center web site. 4] Under "PEP: Post-Exposure Prophylaxis," clicked on "Online PEP Quick Guide." 5] Saved for author review
- 12/4: During browsing in the International Safety Center, noticed that org referenced in compilation of safety device list. 2] Used google.com to navigate to International Sharps Injury Prevention Society (ISIPS), isips.org. 3] Scrolled to "Needlesticks" heading. 4] Saved for author review. (x3)
- 12/4: Used google.com to navigate to American Nurses Assoc., nursingworld.org 2] Chose "Practice & Advocacy" at the top of the page, and then "Sharps." 3] Scrolled to "Legislation." 4] New tab opened on this sub-topic, browsed to result, saved for author review.
- 12/4: Used google.com to navigate to American Nurses Assoc., nursingworld.org 2] Chose "Practice & Advocacy" at the top of the page, and then "Sharps." 3] Scrolled to result, saved for author review.
- 12/4: After using ISC web site for other resources, clicked "Resources" tab from top navigation. 2] Scrolled to "Exposure Resource Links." 3] Saved for author screening. (x11)
- 12/4: After using ISC web site for other resources, clicked "Resources" tab from top navigation. 2] Scrolled to "Exposure Resource Links." 3] Browsed links on NCCC site. Saved for author screening.
- 12/4: After using ISC web site for other resources, clicked "Resources" tab from top navigation. 2] Scrolled to result, saved for author screening.
- 12/4: While looking at a CDC resource on 12/1, noticed additional resources listed. 2] Clicked on link for "International Safety Center" (fka EPINet). 3] Clicked "EPINet Reports" from top menu, navigated to each year's report since 2018. 4] Saved for author review. (x3)
- 12/4: While looking at a CDC resource on 12/1, noticed additional resources listed. 2] Clicked on link for "International Safety Center" (fka EPINet). 3] Clicked "EPINet Reports" from top menu, navigated to each year's report since 2019. 4] Saved for author review. (x6)
- 12/1: After using ISC web site for other resources, clicked "Resources" tab from top navigation. 2] Scrolled to result, saved for author screening.
- 12/1: While looking at an FDA resource on 11/30, noticed additional resources listed. 2] Clicked on link for "National Occupational Research Agenda (NORA) Stop Sticks Campaign." 3] Noticed "Resources" at the bottom of the web site. 4] Saved for author review.
- 12/1: While looking at an FDA resource on 11/30, noticed additional resources listed. 2] Clicked on link for this reference. 3] Saved for author review.
- 12/1: While looking at an FDA resource on 11/30, noticed additional resources listed. 2] Clicked on link for "National Occupational Research Agenda (NORA) Stop Sticks Campaign." 3] Saved for author review. (x6)
- 11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Evaluating and Controlling Exposure." 5] Browsed results; clicked on linked result, but found this one instead. 6] Saved result for author review.
- 11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Additional Resources." 5] Browsed results; saved result for author review. (x4)
- 11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Standards." 5] Clicked on "Related Information." 5] Browsed results in "Standard Interpretations." Saved for author review. (x4)
- 11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Standards." 5] Saved result for author review.
- 11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Evaluating and Controlling Exposure." 5] Saved result for author review. (x10)



11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Hazard Recognition." 5] Browsed results; saved result for author review. (x2)

11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "Enforcement." Saved result for author review. (x6)

11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to "General Guidance"; saved for author review.

11/30: Used google.com to navigate to osha.gov. 2] Chose "A TO Z INDEX" at top Right. 3] Scrolled to topics under "B" and found "Bloodborne Pathogens and Needlestick Prevention"; clicked on that. 4] Scrolled to result; saved for author review. (x2)

11/30: Used google.com to search "Sharps Injury Prevention site:fda.gov". 2] Browsed results; saved for author review. (x4)

11/30: Used google.com to search "Medical Devices with Sharps Injury Prevention site:fda.gov". 2] Browsed results; saved for author review. (x2)

11/30: Used google.com to search "Sharps Injury Prevention site:fda.gov". 2] Browsed results; saved for author review.

EID Journal [Emerging Infectious Diseases]: 2019 to present, handsearching

PUBLICATION HISTORY

- Originally published June 2013 online in Perioperative Standards and Recommended Practices.
- Evidence ratings revised 2013 to conform to the AORN Evidence Rating Model.
- Minor editing revisions made in November 2014 for publication in Guidelines for Perioperative Practice, 2015 edition.
- Evidence ratings revised in Guidelines for Perioperative Practice, 2018 edition, to conform to the updated AORN Evidence Rating Model.
- Revised 2019 for online publication in Guidelines for Perioperative Practice.
- Revised January 2025 using PRISMA2020 for publication in Guidelines for Perioperative Practice online.
- Scheduled for review 2030.

