



# Injection Safety Toolkit

---

RAISING AWARENESS AMONG PATIENTS AND HEALTHCARE  
PROVIDERS ABOUT SAFE INJECTION PRACTICES

Updated 2023

## Contents

CDC's One & Only Campaign .....	3
What is injection safety? .....	3
For the Public.....	4
What to know about receiving healthcare involving needles .....	4
Syringe Exchange Program .....	4
Resources for Self-Injections .....	4
Needle Disposal .....	4
For Health Professionals.....	5
Guidelines and Recommendations .....	5
Rules and Regulatory Guidance .....	5
Tools for Facility Assessment.....	6
Aseptic Technique .....	7
Skin Preparation.....	7
Rubber Septum .....	7
Accessing Central Lines.....	7
Needle Safety.....	7
What to Do After a Needlestick .....	8
Waste Disposal .....	8
Medication and Treatment Management .....	9
Storage .....	9
Preparation .....	9
Mixing (Admixture) .....	9
Compounding.....	9
Reconstituting .....	10
Administration .....	10
Vial Safety .....	10
Special Topics.....	11
Diabetes Care .....	11
Disease Transmission and Outbreaks .....	12
Specialty-Specific Resources.....	13
Acupuncture .....	13
Blood Draw/Phlebotomy.....	13
Dentistry.....	13

Dialysis..... 14  
Dry Needling ..... 14  
Immunization..... 14  
Point of Care Testing Involving Finger-stick..... 15  
Surgery ..... 15  
Micro Needling/Dermal Needling..... 15  
Orthopedic and Pain Management..... 15  
Podiatry ..... 15  
Prolotherapy..... 16  
Wet Cupping ..... 16  
More Resources for Health Professionals..... 16

## CDC's One & Only Campaign

The **One & Only Campaign** is a public health campaign, led by the Centers for Disease Control and Prevention (CDC) and the Safe Injection Practices Coalition (SIPC), to raise awareness among patients and healthcare providers about safe injection practices.

The campaign aims to eradicate outbreaks resulting from unsafe injection practices.



Raising awareness among healthcare providers and patients is critical to ending preventable infections caused by unsafe injections.

---

## What is injection safety?

Although injections and needle use in professional settings are generally safe, unsafe practices do happen and may cause serious harm.

Unsafe practices, like reusing vials or syringes, have the potential to spread disease by cross-contaminating body fluids. Since 2001, more than 150,000 people in the U.S. have been notified of potential exposure to viral hepatitis and HIV due to lapses in injection and needle safety.

*Disclaimer.* The resources below have overlapping information on best practices, but are by no means comprehensive, as new resources continually emerge. In addition, the links below are not an endorsement of the organizations.

## For the Public

### What to know about receiving healthcare involving needles

- [CDC: One & Only Campaign - What Patients Need to Know About Safe Medical Injections](#)  
**Brochure:** Overview of the importance of safe injections and an overview of injection safety.
- [CDC: One & Only Campaign - Patient Information](#)  
**FAQs:** Information on incorrect safety practices and procedures for syringe reuse.

### Syringe Exchange Program

- [North American Syringe Exchange Network \(NASEN\): Oregon Syringe Exchange Programs](#)  
**Search Tool:** Alphabetically sorted syringe exchange programs across the state of Oregon.

### Resources for Self-Injections

- [American Association of Diabetes Educators: Teaching Injection Technique to People with Diabetes](#)  
**Guidelines:** Guidelines for those educating self-injecting patients, including medication preparation and storage, vial and syringe use and personal disposal.

### Needle Disposal

- [Safeneedledisposal.org](#)  
**Factsheet:** Oregon-specific recommendations for sharps disposal and a list of disposal locations throughout the state.
- [FDA: Safely Using Sharps \(needles and syringes\) at Home, at Work and on Travel](#)  
**Toolkit:** Safe use and potential disposal locations for contaminated sharps used outside of the healthcare setting.
- [EPA: Community Options for Safe Needle Disposal \(pdf\)](#)  
**Toolkit:** Overview of safe needle disposal options and current programs in action.

# For Health Professionals

## Guidelines and Recommendations

- [CDC: One & Only Campaign](#)  
**Toolkit:** A collection of injection and needle safety resources that includes free print materials, multimedia materials and additional resources.
- [WHO: Injection Safety Campaign](#)  
**Toolkit:** A collection of best practice resources that provides guidelines, educational and evaluation tools and print materials.
- [Safe Injection Practices Overview \(pdf\)](#)  
**PowerPoint:** HAI Program presentation that describes the impact of unsafe needle and injection practices, CDC recommendations for best practices, and how health professionals can champion needle and injection safety in their facilities.
- [CDC and CMS: Nursing Home Infections Preventionist Training, Module 8 - Injection Safety](#) (relevant to a broad audience)  
**Online Training Module:** Provides an overview of injection safety, along with a review of recommended practices and consequences of failure to follow safe injection practices. This module is organized into five lessons and will take approximately 55 minutes to complete.
- [CDC: Grand Rounds - Preventing Unsafe Injection Practices in the U.S. Health-Care System](#)  
**MMWR:** CDC overview of the impact of unsafe injection practices, state and federal government response, public health's role, and an illustrative case study.
- [CDC: Guideline for Isolation Precautions - Preventing Transmission of Infectious Agents in Healthcare Settings \(2007\)](#)  
**Guidelines:** The CDC summary of recommendations for infection control in healthcare settings, guidelines that, as of 1/1/18, are required for licensed health professionals in Oregon (see above).

## Rules and Regulatory Guidance

- [Oregon Administrative Rule \(OAR\) 333-019-0061: Infection Prevention in Health Care Settings](#)  
**Requirements:** Effective 1/1/18, all licensed health professionals are required to follow standard precautions defined in the CDC: Guideline for Isolation Precautions (2007).
- [CMS: Safe Injection Practices in Ambulatory Surgical Centers \(ASCs\) \(pdf\)](#)  
**Requirements:** The Center for Medicare & Medicaid Services (CMS) identifies the requirement that every ambulatory surgical center adhere to best practices for injection and needle use and establish a program to identify and prevent infections. Best practices are defined by CDC guidelines linked in the document.
- [CMS: Infection Control Breaches Which Warrant Referral to Public Health Authorities \(pdf\)](#)

**Requirements:** The CMS describes facility-specific infection control requirements and who to report a breach to.

- [Joint Commission: Multi-dose Vials - Managing Multi-dose Vials of Injectable Medication](#)

**FAQs:** A brief overview of expectations and procedure when using multi-dose vials of injectable medication.

## Tools for Facility Assessment

- [CDPHE: One & Only Campaign - Insulin Pen Safety 60 Second Check \(pdf\)](#)  
**Checklist:** Colorado Department of Health and Environment (CDPHE), a partner state of the One and Only Campaign, provides a 60-second checklist for assessing insulin pen safety practices.
- [CDPHE: One & Only Campaign - Finger-stick Lancing Device Safety 60 Second Check \(pdf\)](#)  
**Checklist:** CDPHE provides a 60-second checklist for assessing finger-stick lancing device safety practices.
- [CDPHE: One & Only Campaign - Blood Glucose Meter Safety 60 Second Check \(pdf\)](#)  
**Checklist:** CDPHE provides a 60-second checklist for assessing blood glucose meter safety practices.
- [CDC: One & Only Campaign - Injection Safety Checklist \(pdf\)](#)  
**Checklist:** CDC-recommended minimum standards for care involving injections checklist for inpatient and outpatient settings.
- [CDC: Guide to Infection Prevention for Outpatient Settings - Minimum Expectations for Safe Care](#)  
**Toolkit:** This guide has been created to help you evaluate Infection Prevention at your facility. This interactive PDF document is best viewed with Adobe Acrobat Reader.
- [APIC: Forms & Checklists for Infection Prevention \(Volumes 1-3\)](#)  
**Checklists:** Preview of APIC resource available for purchase, which includes forms and checklists for infection prevention including compliance with needle and injection safety standards.
- [Centers for Medicare and Medicaid Services: Ambulatory Surgical Center \(ASC\) Infection Control Surveyor Worksheet \(pdf\)](#)  
**Checklist:** Survey to assess infection control compliance for the Code of Federal Regulations sect;416.51 Conditions for Coverage - Infection Control for ambulatory surgical centers.
- [Centers for Medicare and Medicaid Services: Hospital Infection Control Worksheet \(pdf\)](#)  
**Checklist:** Survey to assess infection control compliance in the hospital setting.
- [Minnesota Hospital Association: Road Map to Controlled Substance Diversion Prevention \(pdf\)](#)  
**Checklist:** An assessment tool for evaluating drug diversion prevention measures in place at a healthcare facility.

# Aseptic Technique

## Skin Preparation

- [CDC: Safe Practices for Medical Injections \(FAQs\)](#)  
**FAQs:** A question and answer forum for medication preparation, medication administration, single-dose/single-use vials, multi-dose vials, and general information including aseptic technique practices.
- [WHO: Best Practices for Injections and Related Procedures Toolkit \(pdf\)](#)  
**Toolkit:** General guidelines for aseptic preparation and administration of injections, hand hygiene, vial management, and guideline tables.

## Rubber Septum

- [CDC: Safe Practices for Medical Injections \(FAQs\) - Medication Preparation](#)  
**FAQs:** A brief question and answer forum for safe injection preparation.

## Accessing Central Lines

- [CDC: Central Line-associated Bloodstream Infections - Resources for Patients and Healthcare Providers](#)  
**Informational Webpage:** CDC addresses the definition of a central line-associated bloodstream infection and basic guidelines for aseptic technique surrounding central line management.
- [CDC and CMS: Nursing Home Infection Preventionist Training, Module 10b - Central Venous Catheters](#) (relevant to a broad audience)  
**Online Training Module:** Discuss central venous catheters and recommended practices for their use. Module 10B is organized into two lessons; it will take you approximately 30 minutes to complete.

## Needle Safety

- [OSHA: Bloodborne Pathogens and Needlestick Prevention](#)  
**Toolkit:** Hazard recognition tools to prevent needlestick injuries and the spread of bloodborne pathogens.
- [WHO: WHO Calls for Worldwide Use of "Smart" Syringes](#)  
**Press release:** Review of the consequences of unsafe injection practices and highlighting options to reduce risk.
- [WHO: Safety Syringes](#)  
**Guidelines:** WHO guideline on the use of safety-engineered syringes for intramuscular, intradermal and subcutaneous injections in healthcare settings.
- [CDC: One & Only Campaign - Bloodborne Pathogens Training](#)  
**Video Training:** A video PowerPoint presentation (with text transcript available)



presents the guidelines for safe practices (CDC), proper waste management (OSHA) and the signs associated with drug diversion.

- [CDC and CMS: Nursing Home Infection Preventionist Training, Module 13 - Occupational Health Consideration for the Infection Prevention and Control Program](#) (relevant to a broad audience)

**Online Training Module:** Discusses occupational health considerations for the infection prevention and control program. This module is organized into 1 lesson and will take approximately 30 minutes to complete.

## What to Do After a Needlestick

- [NCCC: Post-Exposure Prophylaxis Quick Guide for Occupational Exposures](#)  
**Quick Links:** An abbreviated toolkit to assist in urgent response to exposure.
- [NCCC: Post-Exposure Prophylaxis](#)  
**Hotline:** Needlestick "urgent exposure management" hotline: (888) 448-4911 (M-F 6am - 5pm PT, 8am - 5pm weekends & holidays).
- [CDC: Needlestick prevention and care of laundry \(pdf\)](#)  
**Checklist:** Standard precautions observation categories
- [SHEA: Updated US Public Health Service Guidelines for the Management of Occupational Exposures to Human Immunodeficiency Virus and Recommendations for Post Exposure Prophylaxis \(pdf\)](#)  
**Peer-reviewed publication:** Updated national guidelines for suggested response to possible HIV exposure.

## Waste Disposal

- [FDA: Be Smart with Sharps Pamphlet \(pdf\)](#)  
**Pamphlet:** Safe disposal of sharps with infographics and definitions.
- [FDA: Safe Sharps Disposal Label \(For Garbage Container\) \(pdf\)](#)  
**Printable Label:** Garbage container label warning against sharps disposal in general waste bins.
- [FDA: Safe Sharps Disposal Medication Insert \(pdf\)](#)  
**Pamphlet:** Safe disposal of sharps with infographics and definitions.
- [FDA: Sharps Container Poster \(pdf\)](#)  
**Poster:** Printable poster of the safe disposal of sharps.
- [OSHA: Protecting Yourself When Handling Contaminated Sharps](#)  
**Fact Sheet:** Appropriate disposal and handling of contaminated sharps and disposal containers.
- [OSHA: Quick Reference Guide to the Bloodborne Pathogens Standard](#)  
**Guidelines:** Federal directives for needle safety, handling, and bloodborne pathogens risk.
- [OSHA: Disposal of Contaminated Needles and Blood Tube Holders Used for Phlebotomy](#)  
**Guidelines:** Phlebotomy-specific national policies regarding blood-contaminated sharps, with specific instructions regarding blood tube holders for blood draw procedures.

- [CDC National Institute for Occupational Safety and Health \(NIOSH\): Selecting, Evaluating, and Using Sharps Disposal Containers \(pdf\)](#)  
**Publication:** Published guidelines for the selection and implementation of sharps disposal containers.

## Medication and Treatment Management

### Storage

- [CDC: Injection Safety - Observation of Centralized Medication Area \(pdf\)](#)  
**Checklist:** Medication preparation room observation categories
- [CDC: Vaccine Storage and Handling Toolkit](#)  
**Toolkit:** Guidance on vaccine storage, handling, and administration procedures.

### Preparation

- [CDC: Injection Safety - Portable medication systems \(pdf\)](#)  
**Checklist:** Medication cart observation categories

### Mixing (Admixture)

- [ISMP: Safe Practice Guidelines for Adult IV Push Medications](#)  
**Guidelines:** Recommendations that address mixing (termed "admixture"), compounding, reconstituting and IV medication administration.

### Compounding

- [INCRI, ANRI, NORI, & IRB: Best Practice Guidelines for IV Preparation](#)  
**Toolkit:** Guidelines for safe compounding and aseptic environment practices for naturopathic medicine. [USP 797] guidelines are translated into applicable practices for alternative and naturopathic medicine.
- [USP General Chapter 797: Pharmaceutical Compounding - Sterile Preparations](#)  
**Guidelines:** The US Pharmacopeial Convention presents foundational standards for compounding medication in a sterile environment and using aseptic technique. [Note: USP includes reconstituting and mixing under this section and describes applicable aseptic environment procedures that apply to these activities].
- [APIC: Safe Injection, Infusion, and Medication Vial Practices in Health Care \(2016\)](#)  
**Guidelines:** Recommendations for compounding, aseptic technique and injectable medication usage (see pages 3-4, 8).

## Reconstituting

- [Immunization Action Coalition: Vaccines with Diluents - How to Use Them \(pdf\)](#)  
**Table:** Table of vaccines requiring reconstitution prior to administration, includes information about the diluent and time allowed between reconstitution and use.
- [ISMP: Safe Practice Guidelines for Adult IV Push Medications](#)  
**Guidelines:** Recommendations that address mixing (termed "admixture"), compounding, reconstituting and IV medication administration.

## Administration

- [CDC: One & Only Campaign - Rx for Safe Injections Poster \(pdf\) \(Spanish version\)](#)  
**Poster:** Reminder to use just one needle and one syringe only once.
- [CDC: One & Only Campaign: Injection Safety Pocket Card \(pdf\)](#)  
**Pocket Card:** A brief description of the CDC guidelines for safe injection practices.
- [CDC: One & Only Campaign - Injection Safety - What every healthcare provider needs to know](#)  
**Brochure:** Summary of CDC injection safety guidelines and a visual demonstration of how improper needle, syringe, or vial use can spread disease.
- [CDC: Safe Practices for Medical Injections \(FAQs\) - Medication Administration](#)  
**FAQs:** A brief question and answer forum for safe injection administration.

## Vial Safety

- [CDC: One & Only Campaign - Single-dose or Multi-dose? \(pdf\)](#)  
**Infographic:** The CDC's One & Only Campaign provides an intuitive visual for the safe handling of single-dose and multi-dose vials for the provider and patient.
- [CDC: Safe Practices for Medical Injections \(FAQs\) - Single-dose/Single-use Vials](#)  
**FAQs:** A brief question and answer forum for single-dose/single-use vials.
- [CDC: Safe Practices for Medical Injections \(FAQs\) - Multi-dose Vials](#)  
**FAQs:** A brief question and answer forum for multi-dose vials.
- [Joint Commission: Preventing Infection from misuse of vials](#)  
**Publication:** Article on the documented causes of vial misuse, recommendations for improvement, and specific procedures for vial and syringe safety.
- [INS: Infusion Therapy Standards of Practice](#)  
**Guidelines:** Comprehensive injection safety practices for needle use, compounding, sharps waste and safety, environmental cleaning, and vial septum and ampoule disinfection (p. S40).
- [CDC: CDC's Position Paper and Misperception Clarification on Single-dose/Single-use Vials \(pdf\)](#)  
**Position Paper:** A 2012 clarification on the CDC's position on the use of single-dose/single-use vials to clarify misunderstandings among health professionals.

## Special Topics

- [Oregon Health Authority: Drug Diversion and Safe Injections: Risks, Recommendations, & Resources](#)  
**PowerPoint:** Information on how drug diversion can spread disease from health professionals to patients and practical ways to prevent this.
- [Oregon Health Authority: Drug Diversion in Healthcare Settings, June 02, 2014](#)  
**Video:** Dr. Joseph Perz (CDC) discusses collective action required to mitigate drug diversion.
- [Oregon Health Authority: Bold Bugs, Broken Drugs, and Risky Sticks: Keeping Residents Safe when Care Presents Perils](#)  
**PowerPoint:** A description of public health's role and relationship to healthcare facilities (specifically long-term care settings) regarding surveillance, injection safety, and appropriate antimicrobial use.
- [Oregon Health Authority: Injection Safety, Hand Hygiene, and Healthcare Worker Influenza Vaccination](#)  
**PowerPoint:** An overview of best practices for infection control related to syringe and vial safety, drug diversion, and increasing the health professional influenza vaccination use.
- [Oregon Health Authority: Interfacility Transfer Communication & Injection Safety](#)  
**PowerPoint:** A description of effective inter-facility communication use and the impact of safe injection and needle use practices.
- [CDC: Steps for Evaluating an Infection Control Breach](#)  
**Informational Webpage:** The CDC presents the recommended approach to an infection control breach when bloodborne pathogen transmission is a possible risk.
- [CSTE: Drug Diversion Planning and Response Toolkit for State and Local Health Departments](#)  
**Toolkit:** The Healthcare Associated Infections (HAI) Drug Diversion Planning and Response Toolkit for State and Local Health Departments focuses on drug diversion response to define best practices, provides resources informed by past drug diversion investigations, and recommends the enhancement of collaborations among public health agencies and partners representing regulatory affairs: Law enforcement, healthcare facility licensing, certification and accreditation.

## Diabetes Care

- [Oregon Patient Safety Commission: Preventing Infection During Blood Glucose Monitoring and Insulin Administration](#)  
**Video:** This 10-minute video provides best practices that can be implemented in any setting.
- [CDC: One & Only Campaign - Insulin: Pen Safety Poster \(pdf\)](#)  
**Poster:** Reminder that insulin pens are for individuals and should not be shared.

- [CDC: One & Only Campaign - Insulin Pen Safety Brochure \(pdf\)](#)  
**Brochure:** Recommendations for safe insulin pen use for health professionals.
- [CMS: Finger-stick Device Standards \(pdf\)](#)  
**PowerPoint:** An overview of point-of-care testing standards of practice from the CDC and FDA, requiring only one finger-stick device be used for each person.
- [CMS: State Operations Manual - §483.80 Infection Control \(pdf\)](#)  
**Guidelines:** Regulations and guidelines pertaining to medical equipment use. The specified section addresses handling of blood glucose meters and infection control measures for use.

## Disease Transmission and Outbreaks

- [Oregon Health Authority: Taking a Shot at Injection Safety \(pdf\)](#)  
**CD Summary:** An Oregon-specific summary report on the recent impact of lapses in injection safety practices, and OHA's work in addressing this in Oregon. (CME credits available).
- [CDC: One & Only Campaign - The Impact of Unsafe Medical Injections in the U.S.](#)  
**Infographic:** A description of recent infection outbreaks and impact due to unsafe injection practices. A summary of steps to ensure safe injection practices are provided.
- [CDC: Selected Outbreaks and Patient Notification Events in Outpatient Settings, Selected Examples, 2010-2014](#)  
**Table:** A CDC-compiled list of example outbreaks and situations in which patients were notified of possible disease transmission due to unsafe injection practices.
- [CDC: Unsafe Injection Practices in the U.S. Healthcare System](#)  
**Webcast:** Description of the individual and societal impact of disease transmissions that result from unsafe injection practices.
- [CDC: Patient Notification Toolkit](#)  
**Toolkit:** In the event of an infection safety breach, the CDC provides steps and tools for health facilities and health departments to address media communication, patient notification, and decision-making throughout the process.
- [MMWR: Investigation of Hepatitis C Virus Transmission Associated with Injection Therapy for Chronic Pain - California, 2015](#)  
**Report:** A patient receiving prolotherapy injections spread. 400 patients of a clinic offering prolotherapy were contacted for potential exposure to HCV, HBV, and HIV due to insufficient safe injection and aseptic technique practices.
- [Outbreak of Tsukamurella Species Bloodstream Infection among Patients at an Oncology Clinic, West Virginia, 2001-2012](#)  
**Peer-Reviewed Journal Article:** Infection Control and Hospital Epidemiology reports the outbreak of a bloodstream infection among oncology patients due to the use of a saline bag as a common source for saline flushes on multiple patients.

- [Guh AY, Thompson, ND, Schaefer MK, Patel PR, Perz JF. Patient Notification for Bloodborne Pathogen Testing due to Unsafe Injection Practices in the US Health Care Settings, 2001-2011](#)  
**Peer-Reviewed Journal Article:** A 10-year summary of events in which patients were notified of potential bloodborne pathogen transmission due to unsafe injection practices.
- 

## Specialty-Specific Resources

### Acupuncture

- [Council of Colleges of Acupuncture and Herbal Medicine: Clean Needle Technique Review Course: Acupuncture Safety](#)  
**Guidelines:** A CEU review course for clean needle technique.
- [Council of Colleges of Acupuncture and Herbal Medicine: Clean Needle Technique Manual: Best Practices for Acupuncture Needle Safety and Related Procedures, 7th Edition \(2017\)](#)  
**Guidelines:** A thorough resource that addresses safe needle use, aseptic environment protocol, and disposal for a wide variety of oriental medicine practices, such as acupuncture, wet cupping, micro-needling, and electroacupuncture.

### Blood Draw/Phlebotomy

- [WHO: Guidelines on Drawing Blood - Best Practices in Phlebotomy](#)  
**Book:** Online access with section links provides a toolkit-style resource for safe needle use during blood draws.
- [WHO: Best Practice in Phlebotomy and Blood Collection](#)  
**Guidelines:** General guidelines for phlebotomy, including the maintenance of a clean environment and safe tube and stopper management.

### Dentistry

- [CDC: Infection Prevention Checklist for Dental Settings](#)  
**Checklist:** Dentistry-specific checklist to assess facility adherence to CDC-recommended safe injection guidelines.
- [CDC: Summary of Infection Prevention Practices in Dental Settings](#)  
**Guidelines:** Dentistry-specific tool for ensuring injection safety recommendations are followed through administrative design, education, and an included risk assessment tool.
- [MMWR/CDC: Guidelines for Infection Control in Dental Health-Care Settings --- 2003](#)

**Report:** Guidelines for infection control, safe injection practices, aseptic technique and environmental standards, and more.

## Dialysis

- [CDC: Put Together the Pieces to Prevent Infections in Dialysis Patients](#)  
**Poster:** Encourages safe injection practices, aseptic technique, and catheter care.
- [ASN: Managing Infections in an Outpatient Dialysis Facility](#)  
**Online Learning Module:** Interactive 90-minute training module that presents core infection and safety concept in a case-based format. This training was developed in partnership with CDC and includes video, audio files and text to present core concepts.
- [ASN: Compendium of Infection Control and Prevention Resources](#)  
**Informational Webpage.** This page offers a resource library of compiled infection control and prevention resources related to dialysis settings. The resources are categorized for easy accessibility and include categories such as bloodstream infections related to vascular access, emergency management in dialysis, and staff and patient education.
- [CDC: Making Dialysis Safer for Patients Coalition Resource Center](#)  
**Informational Webpage:** This is a landing page to access all of CDC's resources from the Making Dialysis Safer for Patients Coalition. CDC has developed posters, checklists, fact sheets, and videos that can be used in dialysis clinics, provider's offices, training sessions and work areas.

## Dry Needling

- [See Acupuncture \(Clean Needle Technique Manual, 7th Edition, 2017\)](#)
- [Dry Needling Association Switzerland: Guidelines for Safe Dry needling \(2022\)](#)  
**Guidelines:** Needle use safety, including awareness of the expiration date, sterile handling, needle disposal, and needlestick response recommendations. (p.14-19).

## Immunization

- [CDC: Environment of Care - Vaccine Storage Areas \(pdf\)](#)  
**Checklist:** Vaccine storage area observation checklist
- [ISMP: Safe Practice Guidelines for Adult IV Push Medications](#)  
**Guidelines:** This compilation of recommendations addresses mixing (termed "admixture"), compounding, reconstituting and IV medication administration.



## Point of Care Testing Involving Finger-stick

- [CDC: Infection Safety - Point of Care Testing \(pdf\)](#)  
**Checklist:** Point of care area observation categories
- [CDC: Infection Prevention During Blood Glucose Monitoring and Insulin Administration](#)  
**Informational Webpage:** CDC recommendations for finger stick device use and handling.
- [CDC: Frequently Asked Questions Regarding Assisted Blood Glucose Monitoring and Insulin Administration](#)  
**FAQs:** CDC question and answer page for safe use of devices for blood glucose monitoring and insulin administration.
- [CDC and CMS: Nursing Home Infection Preventionist Training, Module 10D - Point of Care Blood Testing](#) (relevant to a broad audience)  
**Online Training Module:** Discusses point-of-care blood testing, including recommended infection prevention and control practices and consequences of failure to follow them. This module is organized in to two lessons and will take approximately 30 minutes to complete.

## Surgery

- [CDC: Infection Prevention in Outpatient Surgery Centers](#)  
**PowerPoint Presentation:** A 2012 presentation given by Dr. Melissa Schaefer (CDC) on the impact of best practice breaches, as well as a summary of guidelines for injection safety and ensuring aseptic technique is followed.

## Micro Needling/Dermal Needling

- [NCBI: Microneedling with Dermaroller](#)  
**Peer-Reviewed Journal Article:** "Medical dermarollers are for single use only" (Doddaballapur, 2009)
- [CCAHM: Clean Needle Technique Manual, 7th Edition, 2017](#)

## Orthopedic and Pain Management

- [CDC: Guide to Infection Prevention in Orthopedic and Pain Management Settings \(pdf\)](#) ([Pocket Guide Version](#))  
This 96-page document includes content on safe injections and medication handling/storage (p. 21-29) as well as scenarios, checklists, and resources lists on the topic of injection safety.

## Podiatry

- [CDC: Guide to Infection Prevention for Outpatient Podiatry Settings \(pdf\)](#)([Pocket Guide Version](#))



This 89-page document includes content on safe injections and medication handling/storage (p.19-23) as well as scenarios, checklists, and resource lists on the topic of injection safety.

## Prolotherapy

- "No formal practice guidelines have been established for prolotherapy treatment, and no formal training is required to deliver this service" (Foster et al, 2015 p.547) ([Investigation of Hepatitis C Virus Transmission Associated with Injection Therapy for Chronic Pain - California, 2015](#))

## Wet Cupping

- [CCAHM: Clean Needle Technique Manual, 7th Edition, 2017](#)

## More Resources for Health Professionals

- [Oregon Health Alert Network](#)  
**Web System:** Oregon Health Authority provides a regional network that allows for sharing of health data among health professionals, public safety professionals, and public health partners.

## References

Dolan SA, Arias KM, Felizardo G, Barnes S, Kraska S, Patrick M, Bumsted A. APIC position paper: Safe injection, infusion, and medication vial practices in health care. American Journal of Infection Control 2016; 44(7):750-757. <https://www.sciencedirect.com/science/article/pii/S0196655316002832>

---

Everyone has a right to know about and use Oregon Health Authority (OHA) programs and services. OHA provides free help. Some examples of the free help OHA can provide are:

- Sign language and spoken language interpreters;
- Written materials in other languages;
- Braille;
- Large print;
- Audio and other formats.

If you need help, please contact the Language Access Services program coordinator one of these ways:

- Web: [www.oregon.gov/OHA/OEI](http://www.oregon.gov/OHA/OEI)
- Email: [Languageaccess.info@state.or.us](mailto:Languageaccess.info@state.or.us)
- Phone: 1-844-882-7889, 711 TTY
- Mail: Office of Equity and Inclusion Division 421 SW Oak St., Suite 750, Portland, OR 97204