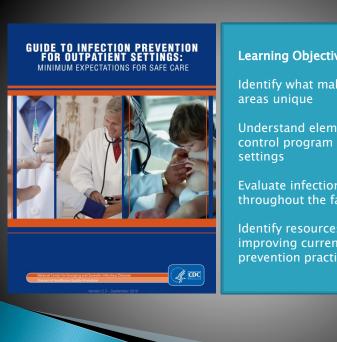
Infection Prevention in **Ambulatory Care**

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Learning Objectives:

Identify what makes ambulatory

Understand elements of infection control program in ambulatory

Evaluate infection control risks throughout the facility

Identify resources for assessing and improving current infection prevention practices

Ambulatory Settings

GUIDE TO INFECTION PREVENTION FOR OUTPATIENT SETTINGS: MINIMUM EXPECTATIONS FOR SAFE CARE



- General medical practice
- Specialty clinics
- Dental
- Dialysis
- Ambulatory surgery centers
- Urgent care clinics
- Immunization clinics

Ambulatory Settings are Unique

CDC

Limited Access to:

- Dedicated IP and EH
- Training Programs
- Quality Measures
- Regulations / Standards

Risks include:

- Patients remain in common lobby area for prolonged periods
- Exam and treatment rooms are turned over quickly with limited disinfection
- Infectious patients may not be recognized quickly



Regulations Vary Per Setting

	Regula	Nationally Recognized Recommendations			
CMS	Accreditation Standards	Other Federal Regulations	State Regulations	CDC / HICPAC	Professional Organization Resources
Examples:	Examples:	Examples:	Examples:	Examples:	Examples:
Appendix E State Operations Manual(SOM) Outpatient PT, SP Appendix G SOM Rural Health Clinic Appendix H SOM End-Stage Renal Disease Facilities Appendix L SOM Ambulatory Surgical Centers	 The Joint Commission HFAP AAAHC 	OSHA	Health Facility Licensure, Statutes Relating to Healthcare Facilities Title 175 Ch 7 • Health Clinics Title 173 Ch 1 • Reporting communicable disease	CDC Core Infection Prevention and Control Practices for Safe Delivery in All Settings CDC Advisory Committee and the HICPAC/SHEA/ APIC/IDSA Hand Hygiene Task Force, Guideline for Hand Hygiene in Health-care Settings	AORN Standards

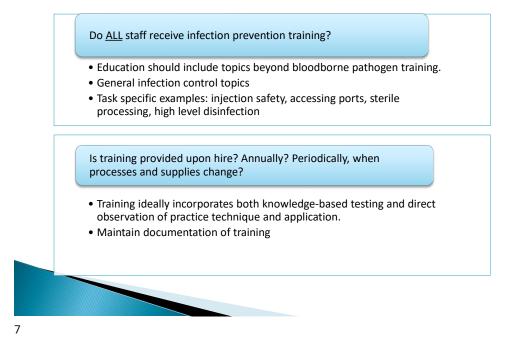
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Policies and Procedures

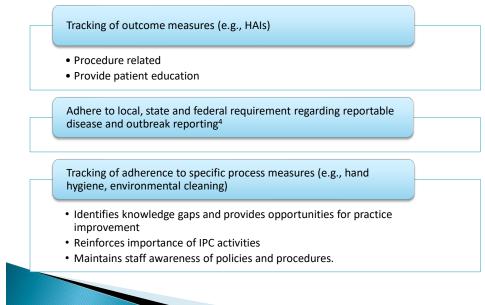
- Identify at least one individual with training in infection prevention to manage the infection prevention program
- · Surveillance systems in place for identifying, reporting and controlling infections
- Include ambulatory setting in annual risk assessment to prioritize resources and focus extra attention to areas that are determined to pose greater risk.
- Establish education and training plan for topics of infection prevention
 - Standard and Transmission-Based Precautions
 - Hand Hygiene
 - Personal Protective Equipment (PPE)
 - Respiratory Hygiene/ Cough Etiquette
 - Safe Injection Practices
 - Environmental Cleaning and Disinfection
 - Sterilization and HLD
 - Employee Health/Exposure Control



Training and Education



Surveillance





Respiratory Hygiene / Cough Etiquette

Implement measures at the point of entry to the facility.

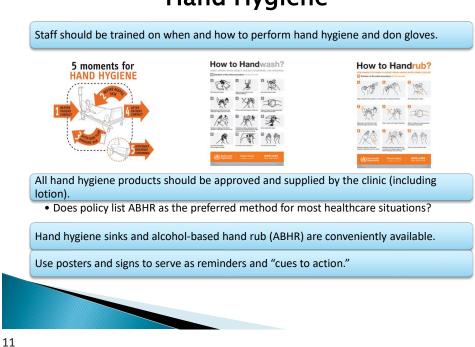
- Educate <u>ALL</u> HCP on preventing the spread of respiratory and other pathogens
- Pre-visit screening (pre-op instructions, symptoms notification, travel history)

Have highly visible signs posted with instructions.

- Signs should instruct the patient or others to inform HCP of symptoms when they first register for care
- Signs should specify the need for mask use, cover their cough, use and dispose of tissues, and when/how to perform hand hygiene

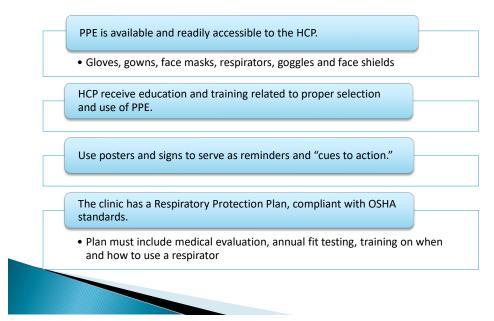
Provide masks, tissues, no-touch receptacles for disposal of tissues, and hand hygiene resources

Provide space for physically distancing, or if available, separate patients with s/s of infectious illness from others while waiting for care.

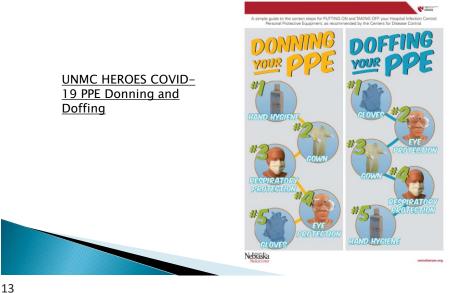


Hand Hygiene

Personal Protective Equipment (PPE)



Use posters and signs to serve as reminders and "cues to action."



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Safe Injection Practices

One needle, one patient, one time!

- Single-dose (single-use) medication vials are used for only one patient.
- Bags of IV solution are used for only one patient.
- Medication administration tubing and connectors are used for only one patient.

If multi-dose vials are used:

- They are dated when they are first opened and discarded within 28 days, unless the manufacturer specifies a different duration.
- They are stored and accessed away from the immediate areas where direct patient contact occurs.

All medication should be prepared in a designated area, away from contamination including the splash zone of a sink.





Safe Use of Point of Care Testing

Do staff responsible for using point of care device receive training upon hire? Annually? When processes or supplies change?

• Refer to CDC Assisted Monitoring of Blood Glucose

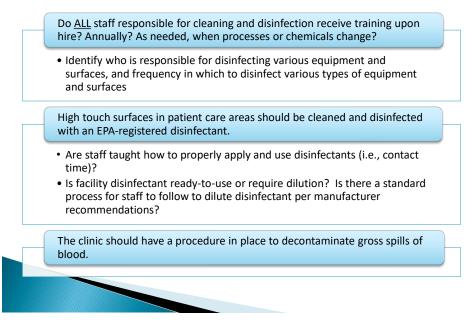
Is the point of care device (e.g., blood glucose meter) manufactured for use on more than one patient?

· Manufacturer must provide instructions for disinfection between uses.

A new single-use, lancing device is used for each patient.



Environmental Cleaning and Disinfection



What do you look for in the exam room?



Consideration of Work Flow

Transport patients through facility

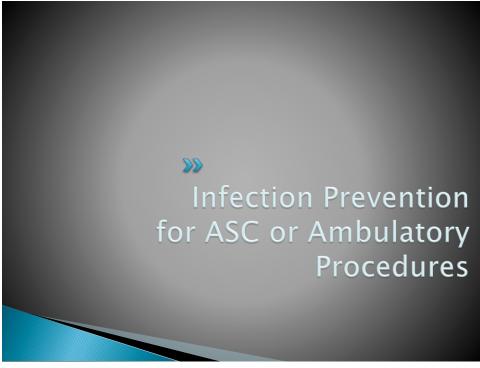
• How will you notify receiving department of infection control concerns?

Transport and storage of equipment

- Who is responsible for disinfecting shared medical equipment?
- Where is it stored? Can you tell it's been disinfected?
- Are clean storage and soiled utility rooms separate to prevent cross contamination?

Room turnover

• Need to allow for air exchange prior to rooming next patient



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Patient screening and education?

Pre-op Considerations

- Pre-op instructions, including pre-surgery bathing
- Pre-existing conditions
- Travel history

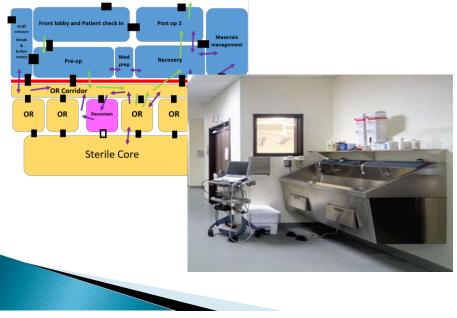
Post-op Considerations

- Infection prevention education
- What symptoms to report

What to inquire about in pre-op?



What do you look for in the sterile core?



What do you look for in the OR Suite?

- Cleaning procedures
- Staff Attire
- Ensuring sterility of supplies
- Maintaining Sterile Field
- Limiting traffic
- Skin Prep
- Temperature regulation



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What do you look for with anesthesia cart?

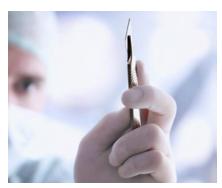
- Disinfection procedures
- Hand hygiene
- Outdates
- Safe injection practices
- Attire



Double gloving



Sharps safety



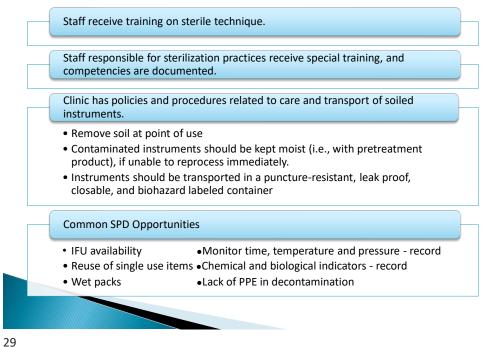
- neutral zone
- safe scalpelno touch suture technique

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Spaulding's Classification

CATEGORY	DEVICE APPLICATION		REQUIRED LEVEL OF DISINFECTION
CRITICAL	Contact with the bloodstream or sterile tissues.	Surgical instruments, e.g. scalpels, tweezers, scissors, kidney dishes and clamps.	Sterilisation Eliminates all forms of microbial life.
SEMI- CRITICAL	Contact with mucous membranes or non-intact skin.	Endoscopes and endocavity ultrasound probes.	High-Level Disinfection Destroys all vegetative microorganisms, mycobacteria, enveloped and non-enveloped viruses, fungal spores and some bacterial spores.
NON- CRITICAL	Contact with intact skin.	Abdominal ultrasound probes.	Intermediate-Level Disinfection Destroys mycobacteria, most viruses most fungi and bacteria.
		Stethoscopes and blood pressure cuffs.	Low-Level Disinfection Destroys most bacteria, some viruse and some fungi.

Sterilization Practices



What is wrong with these pictures?



High Level Disinfection

Staff responsible for high-level disinfection receive special training, and competencies are documented?

Is the high-level disinfection process automated:

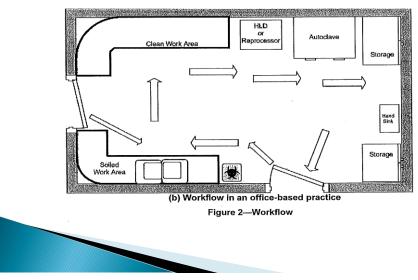
- Pre-clean instrument per manufacturer IFU
- Train per manufacturer IFU

High-level disinfectant training should focus on safe use of chemical:

- Pre-cleaning instrument per manufacturer IFU.
- · Chemical prepared according to manufacturer instructions,
- Tested for appropriate concentration,
- Replaced according to manufacturer instructions, and
- Disinfected at the appropriate temperature .
- Proper selection and use of PPE for handling soiled instruments and chemicals.



Office Based Work Flow AAMI ANSI ST79







- Items should be stored so not crushed, bent, compressed, punctured or sterility compromised
- Dedicated storage room is ideal or consider covered cabinets.

8-10" from floor, 18" from ceiling, at least 2" from outside wall

If wire shelving units used, should have solid bottom shelf

No outside shipping cartons or corrugated boxes.

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ASC Air and Temperature Management

Area	Movement	Exchanges	Humidity	Temperatur e
OR	Positive (out)	15	30-60%	68–73 ⁰ F
PACU	-	6	30-60%	68-73 ⁰ F
Exam room	-	6	-	70-75 ⁰ F
Soiled room	Negative (in)	10	-	68-73 ⁰ F
Clean workroom	Positive (out)	4	-	75
Sterile storage	Positive (out)	4	30-60%	-



References

CDC Guide to Infection Prevention for Outpatient Settings: Minimum Expectations for Safe Care. 2016.

- https://www.cdc.gov/infection-control/media/pdfs/outpatient-guide-
- 508.pdf?CDC_AAref_Val=https://www.cdc.gov/infectioncontrol/pdf/outpatient/guide.pdf

CMS State Operations Manual list.

 https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Internet-Only-Manuals-IOMs-Items/CMS1201984

State of Nebraska Department of Health and Human Services (DHHS) Licensure Unit. Statutes Relating to Healthcare Facilities.

<u>https://dhhs.ne.gov/Pages/Title-175.aspx</u>

Nebraska Department of Health and Human Services (DHHS) Title 173 Communicable Disease Ch 1 Reporting and Control of Communicable Diseases (173 NAC 1). Effective 1/1/2017.

https://dhhs.ne.gov/Pages/Title-173.aspx

CDC Injection Safety

<u>https://www.cdc.gov/injectionsafety/</u>

CDC Preventing Unsafe Injection Practices

https://www.cdc.gov/injection-safety/hcp/clinicalsafety/?CDC_AAref_Val=https://www.cdc.gov/injectionsafety/one-and-only.html

CDC Considerations for Blood Glucose Monitoring and Insulin Administration

- https://www.cdc.gov/injection-safety/hcp/infection-
- control/?CDC_AAref_Val=https://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html



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References

- CDC Environmental Infection Control Guidelines. Appendix B. Air
 - https://www.cdc.gov/infection-control/hcp/environmental-control/appendix-bair.html?CDC_AAref_Val=https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html

MMWR. Guideline for Hand Hygiene in Healthcare Settings. 2002. Volume 51. No RR-16

https://www.cdc.gov/mmwr/PDF/rr/rr5116.pdf#page=19

World Health Organization. Hand Hygiene Training Tools.

https://www.who.int/teams/integrated-health-services/infection-prevention-control/hand-hygiene/training-tools

CDC. Guideline for Disinfection and Sterilization in Healthcare Facilities. Update: May 2019.

- https://www.cdc.gov/infection-control/media/pdfs/guideline-disinfectionh.pdf?CDC_AAref_Val=https://www.cdc.gov/infectioncontrol/pdf/guidelines/disinfection-guidelines-H.pdf
- CDC and ICAN. Best Practices for Environmental Cleaning in Healthcare Facilities in Resource-Limited Settings.

Atlanta, GA: US Department of Health and Human Services, CDC; Cape Town, South Africa: Infection Control Africa Network; 2019.

https://www.cdc.gov/hai/pdfs/resource-limited/environmental-cleaning-RLS-H.pdf)

CDC's Core Infection Prevention and Control Practices for Safe Healthcare Delivery in All Settings https://www.cdc.gov/infection-control/hcp/core-

practices/?CDC_AAref_Val=https://www.cdc.gov/infectioncontrol/guidelines/core-practices/index.html

