
Nursing Student Orientation

Infection Prevention & Control

Objectives

- Patient, visitor and employee safety
- Hand hygiene
- Infection Prevention practices & policies
- Your role

How do we keep patients and healthcare workers safe?

Work Practice Controls

- Hand hygiene
- Standard & Transmission based precautions
- Triage/screening of patients for illness and proper placement
- Keep employee food & drink in break rooms
- Adhere to regular cleaning schedules
- Know the contact time for the disinfectant you are using

Engineering Controls

- Negative pressure rooms
 - Used for patients known or suspected to have Tb or other diseases transmitted by the airborne route.
- Safety devices
 - Sharps containers
 - Safety needles
 - Needleless connectors
 - Ambu bags
- One needle, one syringe, one time

Hand Hygiene

SINGLE MOST EFFECTIVE way to prevent the spread of infection



- Pathogens can be transmitted patient to patient by poorly sanitized hands of healthcare professionals
- Gloves are NOT a substitute!!!
- Keeps your patients, your coworkers and you safe.

Hand Hygiene – Alcohol Based Hand Rub

- Preferred method of hand hygiene
- Quick
- Mobile
- Disinfects



<https://www.cdc.gov/handhygiene/providers/index.html>

Hand Hygiene – Soap & Water



- Should be used instead of alcohol foam at certain times:
 - When hands are visibly soiled
 - Before eating
 - After using the restroom
 - Good choice after coming into contact with a patient with diarrheal illness such as *Clostridium difficile*
- Requires 15 seconds of friction to mechanically remove microbes

<https://www.cdc.gov/handhygiene/providers/index.html>

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Hand Hygiene

Beaumont Health's Hand Hygiene Quality Standard:

ALWAYS foam in, and foam out if ANYTHING was touched.

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Hand Hygiene

- DUDE – **D**id **Y**ou(**U**) **D**isinfect **E**very time?
- Remind others to do the same
- Say “Thank You” when reminded



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Hand Hygiene – Artificial Fingernails

- Significantly higher concentration of microorganisms than natural nails



<https://www.cdc.gov/handhygiene/providers/index.html>

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Hand Hygiene – Not just for HCP

- Encourage patient hand hygiene
 - After toileting
 - When leaving and returning to room
 - Before eating, drinking, taking medicine
 - After coughing, sneezing
 - Before invasive procedures

Standard Precautions

- Foundation for preventing transmission of infectious agents during patient care.
- Used in the care of ALL patients.
- The amount/type of personal protective equipment (PPE) worn depends on the task being performed



Standard Precautions

Before interactions, assess how/if you may come into contact with blood/bodily fluids:



– Wear gloves for potential exposure to hands



– Wear a gown for potential exposure to clothing



– Wear a mask for potential exposure to nose or mouth



– Wear eye protection for potential exposure to eyes

Transmission-Based Precautions

- Used in addition to standard precautions.
- When known or suspect multi-drug resistant organism (MDRO) or something that can be transmitted from patient to patient or between patients and staff.
- Based on HOW the virus or bacteria is transmitted.

How are diseases transmitted?

Contact



Airborne



Droplet



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STOP


ALL FAMILY & FRIENDS, PLEASE SEE A NURSE BEFORE ENTERING.

CONTACT PRECAUTIONS

-  Hand hygiene before/after care
-  Gloves before entering room
-  Gowns before entering room
-  Limit patient transport
-  Dedicated patient equipment

PLEASE REUSE SIGNS. DO NOT DISCARD.





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STOP

ALL FAMILY & FRIENDS, PLEASE SEE A NURSE BEFORE ENTERING.

DROPLET PRECAUTIONS

-  Hand hygiene before/after care
-  Surgical mask for health care workers and family & friends
-  Surgical mask on patient being transported
-  Limit patient transport

PLEASE REUSE SIGNS. DO NOT DISCARD.

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STOP

ALL FAMILY & FRIENDS, PLEASE SEE A NURSE BEFORE ENTERING.

AIRBORNE PRECAUTIONS

-  Hand hygiene before/after care
-  Negative pressure room with door closed
-  N95 mask or PAPR for health care workers
-  Surgical mask for family & friends
-  Surgical mask on patient being transported
-  Limit patient transport

PLEASE REUSE SIGNS. DO NOT DISCARD.

Cleaning/Disinfection

Who?

Everyone

What?

Patient Care Equipment

When?

Between Every Patient

Cleaning/Disinfection – Low Level Disinfection

- For “non-critical items” that come into contact with intact skin
 - Includes IV pumps, bedside tables, computers, keyboards, WOWs, bedside commodes, etc.
- Kills most bacteria, some fungi and viruses
- Refer to label for wet contact time

<https://www.cdc.gov/infectioncontrol/guidelines/environmental/background/services.html>

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Cleaning/Disinfection – Low Level Disinfection

Purple Top



SUPER SANI-CLOTH wipes:

2 minutes

To be fully effective on bacteria including Mycobacterium tuberculosis (TB). Does not kill C. diff spores

Orange Top



SANI-CLOTH BLEACH wipes:

4 minutes

To be fully effective on bacteria including C. diff spores

Grey Top



SANI-CLOTH AF3 wipes:

3 minutes

To be fully effective on bacteria. Does not kill C. diff spores. Used for specialty equipment only.

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Whatever our job, we all play a role in safety



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You Can Make a Difference!

- Work Practice Controls:
 - Hand washing saves lives; Wash in, Wash out
 - Follow Standard and Transmission Based Precautions.
 - Keep food & drink in break rooms
- Reducing the transmission of disease:
 - Adhere to cleaning schedules
 - Proper disinfection of equipment
- Engineering Controls
 - Safe handling of needles & contaminated objects
 - Negative pressure rooms
- Follow policies & procedures; Set a good example for coworkers, patients, visitors, and family.

Contact Us

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Infection Prevention is Everyone's Responsibility!



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