

# Children's Healthcare School Health Program

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Infection Prevention Overview



# Goals

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Disease Transmission

Hand Hygiene

Environmental Cleaning

Standard Precautions

Personal Protective Equipment (PPE) and Appropriate Usage

Blood Borne Pathogens (BBP)

# Transmission Basics

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For transmission of an infection to occur it requires ALL of the following requirements.

- A source of microorganisms
- Means of transmission
- Portal of entry
- Susceptible host
- Adequate dose

# Hand Hygiene

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Handwashing requires

- Running water,
- Soap, and
- Friction for a minimum of 15 seconds.
  - *The ABC song works well for a 15 second timer*
- Frequently missed areas in Hand Hygiene:
  - Between the fingers
  - Nail beds
  - The thumb



# Hand Sanitizer

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## Waterless Hand Sanitizers

- Can be used instead of soap and water
- Offers excellent kill of microorganisms.
- Offers excellent kill of microorganisms (99% vs. 67% for hand washing)

## Instructions

- Apply the product to the palm of one hand (read the label to learn the correct amount).
- Rub your hands together.
- Rub the product over all surfaces of your hands and fingers until your hands are **dry**.



# When the Gel just doesn't cut it

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## Waterless / Alcohol Based Hand Hygiene

### Agents:

- Can be used instead of soap and water  
UNLESS:
  - Hands are visibly soiled
  - Hands are contaminated with blood or body fluids
  - The caregiver has gone to the restroom



# Environmental Disinfection

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- Bleach works
  - Pre-moistened Wipes
  - 1:10 bleach solution (shelf life 24 hours)
- Other products that work include:
  - Quaternary ammonium compounds
  - Isopropyl Alcohol
  - Hydrogen peroxide
- Large Spill Guidance
  - Use Standard Precautions!!!
  - Disposal in accordance with your system policies and available resources

***What ever you use, use it right! Read the label!!***

# Standard Precautions

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Everyone must be cared for as if their blood and body fluids can transmit a serious infection to yourself and to others...

- No matter how cute they are...
- No matter how well you know them or their family...

If it is wet and it comes from a body...don't put your hands in it without protective coverings. Wear your gloves!

- ❖ Note: "Standard Precautions" replaced the term "Universal Precautions" in 1996.

# PPE - Gloves

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- Wear gloves when there is potential contact with blood, body fluids, mucous membranes, non-intact skin or contaminated equipment.
- Wear gloves that fit appropriately.
- Do not wear the same pair of gloves for the care of more than one individual.
- Do not wash gloves for the purpose of reuse.
- Perform hand hygiene before and immediately after removing gloves.

# PPE - Masks

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- Wear a facemask when there is potential contact with respiratory secretions and sprays of blood or body fluids
  - May be used in combination with goggles or face shield to protect the mouth, nose and eyes
  - Respiratory droplets can carry up to six feet.

# Blood Borne Pathogens (BBP)

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- Blood Borne Pathogens are infectious microorganisms in human blood that can cause disease in other humans.
- These pathogens include, but are not limited to:
  - hepatitis B (HBV)
    - Vaccine preventable
  - hepatitis C (HCV)
  - human immunodeficiency virus (HIV).

OSHA Site for BBP:

[https://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=10051](https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10051)



# BBP – Athletics & Extra-Curricular Activities

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- HIPPA/FERPA Rules apply!!! Protected information may NOT be shared.
- Every person participating in extra-curricular athletics should have an annual physical form on file, signed by a licensed clinician.
- Acutely ill children should not participate in extra-curricular activities.
- Standard Precaution Education for all staff (i.e. coaching/sponsoring extra-curricular activities) is recommended.
- Students should be removed from an activity immediately any time they are bleeding.
- All cuts & abrasions should be covered with an appropriate bandage.
  - Athletes should be immediately removed from the activity if the bandage becomes loose.
- All the above apply to EVERYONE, regardless of BBP status.



# Thank You for Your Time

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- <https://www.choa.org/medical-professionals>
- [https://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=10051](https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10051)