

**Anderson County  
Bloodborne  
Pathogen  
Training**



# Objectives

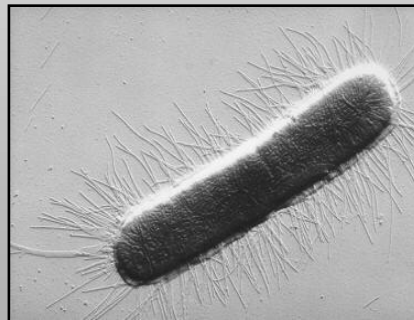
- **What are Bloodborne Pathogens (BBPs)?**
- **Why are they harmful?**
- **How can I protect myself?**
- **What is an Exposure Control Plan?**

# General overview

**PATHOGEN:** a microorganism that can cause disease

## Examples of Illnesses Pathogens Cause

- Viruses      AIDS, Hepatitis B, colds, flu, Herpes
- Bacteria      Intestinal diseases, Tuberculosis, Gonorrhoea
- Fungi      Athlete's foot, Farmer's lung, Asthma/allergies
- Parasites      Giardiasis, Malaria, Trichinosis



*E. coli* (bacteria)



*Trichinella* (parasite)

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# Transmission of Diseases

Organisms can enter the body via

- **Ingestion**

Contaminated food, water



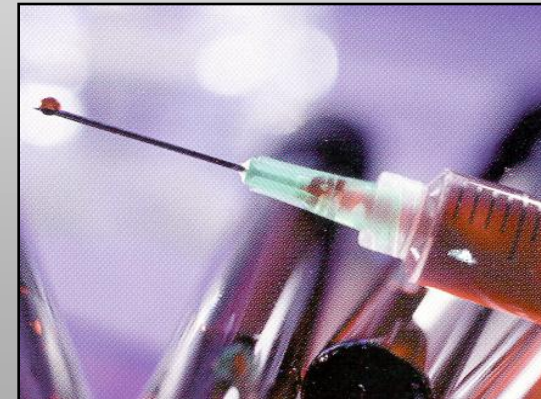
- **Inhalation**

Air



- **Contact**

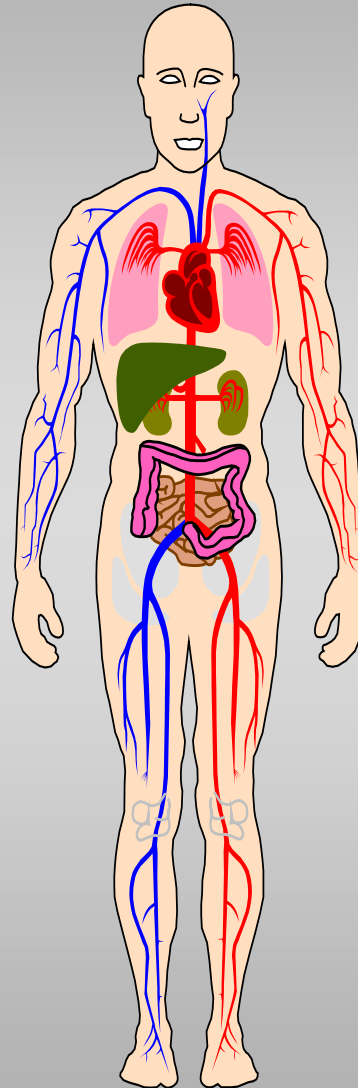
Bloodborne



# Bloodborne Pathogens (BBPs)

Present in  
**Blood**

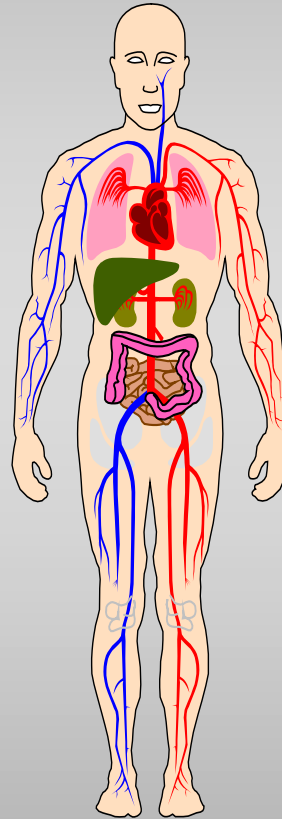
or



**O**ther  
**P**otentially  
**I**nfectious  
**M**aterials

# Bloodborne Pathogens (BBPs)

## OPIIM



- body fluids
- saliva in dental procedures (if blood is present)
- any body fluids visibly contaminated with blood

body fluid that is difficult to differentiate:

- any unfixed tissue or organ (other than intact skin) from a human (living or dead)
- HIV- or HBV-containing cultures (cell, tissue, or organ), culture medium, or other solutions
- blood, organs, & tissues from animals infected with HIV, HBV, or BBPs

# Transmission of BBPs

Risk of infection depends on several factors:

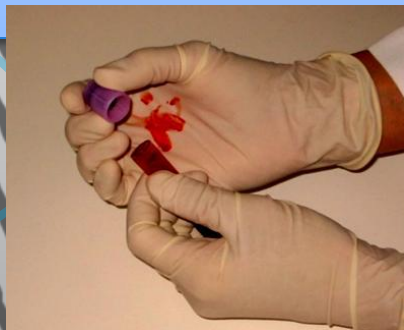
- The pathogen involved
- The type/route of exposure
- The amount of virus in the infected blood at the time of exposure
- The amount of infected blood involved in the exposure
- Whether post-exposure treatment was taken
- Specific immune response of the infected individual



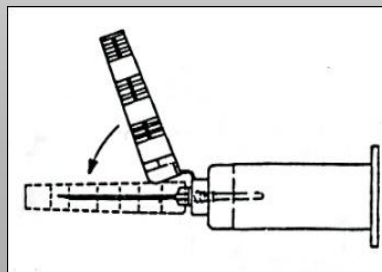
# Exposure Controls

## Reducing your risk

- Universal precautions (*or equivalent system\**)
- Equipment and Safer Devices
- Work practices
- Personal protective equipment



- Housekeeping
- Laundry handling
- Hazard communication-labeling
- Regulated Waste





## Exposure Controls

# UNIVERSAL PRECAUTIONS

– A system of infection control:

TREAT **ALL HUMAN BLOOD AND OPIM** AS IF KNOWN TO BE INFECTIOUS WITH A BLOODBORNE DISEASE.



# Exposure Controls

## Safe Work Practices



- Do not eat, drink, smoke, apply cosmetics or lip balm, or handle contact lenses in any work areas where there is the possibility of exposure to blood or OPIM.
- Do not place food or drink in refrigerators, freezers, shelves, cabinets, or on countertops or bench tops in any work areas.



# Exposure Controls

## Safe Work Practices

Clean-up of spills and broken glassware/sharps contaminated with blood or OPIM

- ✓ Wear protective eyewear and mask if splashing is anticipated.
- ✓ Remove glass and other sharps materials using a brush and dust pan, forceps, hemostat, etc. **Do not use your hands.**
- ✓ Properly discard all materials into a sharps or puncture-resistant biohazardous waste container.
- ✓ Use paper/absorbent towels to soak up the spilled materials.

# Exposure Controls

## Safe Work Practices

### Clean-up of spills and broken glassware/sharps (cont.)



- Clean the area with 10% bleach or EPA-registered disinfectant.
- Saturate the spill area with disinfectant. Leave for 10 minutes (or as specified by product manufacturer) or allow to air dry.
- Properly dispose of paper towels and cleaning materials into proper waste containers.

# Exposure Controls

## Personal Protective Equipment (PPE)

You must wear all required PPE. *The County provides you with PPE at no cost, such as:*

- Face shields or Masks
- Eye Protection
- Gloves

**Disposable PPE Can Not Be Reused**

# Exposure Controls

## Personal Protective Equipment (PPE)



Nitrile and vinyl gloves

### Gloves

- Latex
- Nitrile
- Vinyl
- Utility



Boxes of latex gloves  
in glove dispensing rack

# Exposure Controls

## Personal Protective Equipment (PPE)

### Remove gloves safely and properly

- Grasp near cuff of glove and turn it inside out. Hold in the gloved hand.
- Place fingers of bare hand inside cuff of gloved hand and also turn inside out and over the first glove.



- Dispose gloves into proper waste container.
- Clean hands thoroughly with soap and water (or antiseptic hand rub product if handwashing facilities not available).

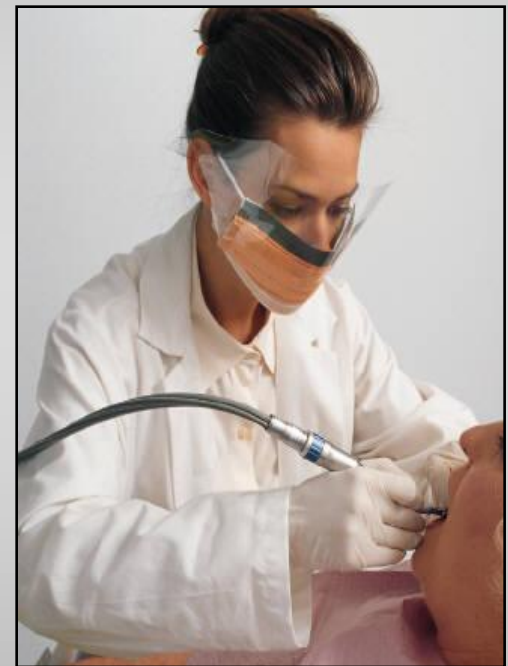


# Exposure Controls

## Personal Protective Equipment (PPE)

### Eye-Face Protection and Masks

- Safety glasses with side shields
- Splash goggles
- Face shield
- Mask





# Exposure Controls

## Housekeeping

Maintain a clean and sanitary workplace

- Written cleaning and decontamination schedule and procedures
- Approved disinfectant –bleach, EPA-approved
- Contaminated waste disposal methods
- Laundry
  - Wear PPE when collecting or sorting



# Exposure Controls

## Communication of Hazards

### Biohazard Labels and Signs

- Must have biohazard symbol
- Labels attached securely to any containers or items containing blood/OPIM
- Red bags/containers may substitute for labels
- Signs posted at entrance to specified work areas



Predominantly  
fluorescent orange  
or orange/red  
background

Lettering and  
symbol in  
contrasting color to  
background

# Exposure Controls

## Regulated Waste -Containers

- **Easily accessible**
- **Labeled or color-coded**
- **Leak-proof, closeable**
- **Puncture-resistant for sharps**
- **Replaced routinely (do not overfill!)**



- Close immediately before removing or replacing
- Place in second container if leaking
- If reusable, open, clean it and use it in a manner that will not expose you or others

# Exposure Incident

If you have an exposure incident to blood or OPIM, immediately do the following:

- Thoroughly clean the affected area
  - Wash needlesticks, cuts, and skin with soap and water
  - Flush with water splashes to the nose and mouth
  - Irrigate eyes with clean water, saline, or sterile irrigants
  
- Report exposure to *supervisor and the Human Resources & Risk Management Department to ensure management of exposure and proper report forms are completed.*

# Anderson County Human Resources & Risk nagement

For additional information or to schedule an on-site training, please contact Kim Jeffers-Whitaker by phone or email,

865-264-6300

[kwhitaker@andersontn.org](mailto:kwhitaker@andersontn.org)