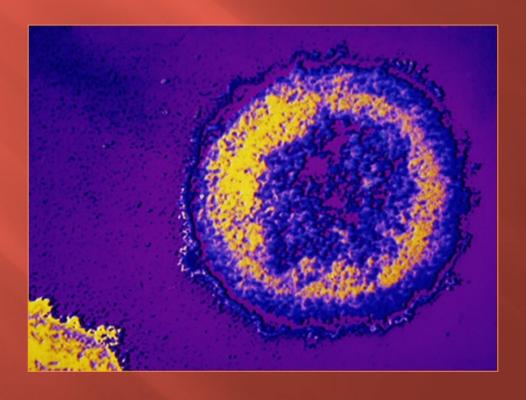
Jay Industries, Inc.

Bloodborne Pathogens 29 CFR 1910.1030 OSHA Bloodborne Pathogens Training



Bloodborne Pathogens Goal

Eliminate or Minimize

Employee Exposure to

Bloodborne Pathogens at work

Purpose of Training

- Employees will learn about:
 - Bloodborne diseases
 - How to prevent exposure
 - How to handle possible exposure
 - Who is affected the most
 - Hepatitis B Vaccine
 - Our plan for prevention and protection

Could You Contract a Bloodborne Disease at Work?

- Administering first aid?
- Cleaning the restrooms?
- Using a tool covered with dried blood?
- A co-worker sneezes on you?
- Working in a sewer drain or manhole?
- Cleaning up after an accident?

10,000 employees a year get a bloodborne disease at work.

Occupational Exposure Are you at Risk?

 Janitorial Staff – may clean up blood or OPIM

 Maintenance Staff – may clean up a machine after an injury

First Aid Responders – any Jay Employee who is trained to administer First Aid and CPR in case of an accident or injury

Terms - Blood

Blood

- Human Blood
- Human Blood components, and products made from blood

Terms - Other Potentially Infectious Material (OPIM)

OPIM

- Semen, Vaginal Secretions
- Amniotic Fluid, Cerebrospinal Fluid, Synovial Fluid
- Pleural Fluid, Saliva, Sweat, Vomit, Urine
- Skin, tissue, cell cultures
- Other bodily fluids

Terms - Bloodborne Pathogens

 Microorganisms (germs) present in blood or other body fluids

These germs can cause serious diseases

Terms - Exposure Incident

Exposure Incident

 A specific eye, mouth, mucous membrane, or non-intact skin contact with blood or OPIM that results from the performance of work by an employee.

Terms - Universal Precautions

Universal Precautions

- All potentially infections materials must be handled as if it contains bloodborne pathogens.
- Proper work practice controls, engineering controls, and PPE must be used to prevent further contamination and exposure.

Common Bloodborne Pathogens

Common bloodborne pathogens include:

- Human Immunodeficiency Virus (HIV)
- Hepatitis B (HBV)
- Hepatitis C (HCV)
- Hepatitis A (HAV)

Also includes:

Syphilis-Malaria-Brucellosis

Human Immunodeficiency Virus (HIV)

- HIV is the virus that leads to AIDS
- AIDS is the Acquired Immune Deficiency Syndrome
- HIV depletes the immune system so it can no longer fight diseases
- HIV is life threatening
- Currently there is NO VACCINE against HIV

HIV Facts

- HIV is not as infectious as Hepatitis B because there are not as many virus particles present in bodily fluids
- 1 teaspoon of blood contains about 15 HIV particles
- HIV is more fragile that Hepatitis B and can be easily destroyed on surfaces outside the body

Hepatitis B (HBV)

- HBV can live on surfaces at room temperature for up to 10 days, even if blood is dried
- It is smaller and more common than HIV
- In 1 tsp of blood, there can be up to one billion (1,000,000,000) HBV particles
- There are 1 to 1.4 million chronic carriers in USA (according to CDC)

More on Hepatitis B

- Can lead to Cirrhosis, Liver Disease and Liver Cancer
- HBV is the most common form of Hepatitis
- 300,000 new cases per year, with 10,000 due to work exposure
- Recovery is good if properly diagnosed

- It is easier to catch than HIV
- Symptoms include jaundice, fatigue, abdominal pain, loss of appetite, intermittent nausea and vomiting.
- VACCINATION has been available since 1982

Hepatitis C (HCV)

- Hepatitis C is the most common chronic bloodborne infection in the United States
- According to the CDC, there are 2.7 to 3.9 million people with Hepatitis C
- Symptoms include: jaundice, fatigue, abdominal pain, loss of appetite, intermittent nausea, vomiting
- May lead to chronic liver disease and death
- There is NO VACCINE to prevent HCV

Hepatitis A (HAV)

 Contracted through contaminated food or drinking water which contains infected fecal matter

There is NO VACCINE available to prevent HAV

Healthy Liver



HBV Infected Liver



Potential Transmission

- Contact with another person's blood or other body fluid
- Mucous membranes: eyes, mouth, nose
- Non-intact skin
- Contaminated sharps/needles



Potential Exposure

Industrial accident

Administering first aid

Post-accident cleanup

Janitorial or maintenance work

Jay Industries, Inc. Exposure Control Plan (ECP)

- Potential exposure determination
- Safe work practices
- Decontamination
- Selecting and using PPE
- Handling biowaste
- Labels and signs
- Training requirements
- Recordkeeping requirements

Exposure Control Plan

 Our plan is located on Jay Industries, Inc. intranet home page (green screen)

Go to EHS tab on right side

Open Plans and Procedures tab

Bloodborne Pathogens tab

Who Must be Trained?

- All employees with occupational exposure to blood or other potentially infectious material (OPIM)
- Employees who are trained in First Aid and CPR

Employees who may clean up an accident, such as janitors or maintenance

How often is BBP training required?

- All employees receive BBP training in Orientation
- Employees who are trained in First Aid and CPR must have initial class and an annual refresher course
- Employees who clean up an accident, such as janitorial and maintenance, must have initial class and an annual refresher course

Universal Precautions

 Treat all blood and bodily fluids as if they are contaminated

Proper cleanup and decontamination



Reminder: These are Potentially Infectious Body Fluids

- Blood
- Saliva, vomit, urine
- Semen or vaginal secretions
- Skin, tissue, cell cultures
- Other body fluids

Sometimes fluids are mixed and it is difficult to determine what they are – all should be considered potentially infectious materials.

Engineering Controls

- Used needles must be disposed of in a Sharps container
- Sharps containers are red plastic jugs found near main restrooms or large first aid cabinets
- Proper disposal prevents used needle sticks

Contact EHS if the Sharps container is full and needs replaced.

Personal Protective Equipment

- Available at NO cost
- Found in Bloodborne Pathogen (BBP) kits near large First Aid cabinets
- Once used, put all contaminated items in red biohazard bag
- If kit is used, notify EHS for replacement

- BBP kit contains:
 - Masks
 - Gowns
 - Gloves
 - Safety glasses
 - Shoe covers
 - Hand wipes biohazard bag

Protective Equipment

- Bleeding control <u>latex gloves</u>
- Spurting blood <u>latex gloves</u>, protective clothing (gown), respiratory mask, eye/face protection (goggles or glasses)
- Post-accident cleanup <u>latex</u> <u>gloves</u>
- Janitorial work <u>latex gloves</u>



Remove gloves safely without spreading germs



- •Grasp the palm of one glove near your wrist.
- •Carefully pull the glove off.

3.

- •Pull the glove until it comes off inside out.
- •The first glove should end up inside the glove you just took off.
- •Dispose of the gloves safely.

2.

- •Hold the glove in the palm of the still-gloved hand.
- •Slip 2 fingers under the wrist of the remaining glove.

4.

•Always wash your hands after removing gloves. Gloves can have holes in them that are too small to be seen.





Safe Work Practices

- Remove contaminated PPE or clothing as soon as possible
- Clean and disinfect contaminated equipment and work surfaces
- Thoroughly wash up immediately after exposure
- Properly dispose of contaminated items in a red biohazard bag
- Call EHS for pick up and disposal of biohazard bag

First Aid Responders

If you get blood on you:

- Wash it off as soon as possible
- Use soap and water to wash
- Immediately flush your eyes with running water at a sink or eyewash station
- Report the incident to your supervisor

First Aid Precautions

- Protect yourself before offering assistance
- Wear clean, leak-proof disposable gloves
- Be aware of your own cuts or broken skin
- Help a co-worker to stop their own bleeding
- If blood is spraying, wear goggles or a mask
- Treat all blood or body fluids as though they are infected
- Be Careful!
- Offer comfort while awaiting responders

Housekeeping Precautions

- Wash hands as soon
 as possible after contamination and removing gloves
- No food or drink in clean-up area
- Clean and decontaminate equipment and surfaces that touch potentially infected materials

- Do not pick up broken glass or items with your hands, use a broom and dustpan
- Do not handle items such as pens and door handles while wearing contaminated gloves

Housekeeping items in BBP kit

- Fluid solidifier
- Disinfectant spray
- Pick up scoop and scraper
- Paper Towels
- Red Biohazard bags
- Antimicrobial hand wipes
- Gloves
- SDS sheet on contents

Decontamination

- Wear protective gloves
- Disinfectant/cleaner provided in bodily fluid disposal kit
- Or, a solution of ¼ cup bleach per gallon of water
- Properly dispose of contaminated PPE, towels, and rags in a red biohazard bag
- DO NOT THROW CONTAMINATED MATERIALS IN THE TRASH CAN.

How do I clean up safely?

- Wear protective gloves
- Disinfect using solution in kit or ¼ C household bleach per one gallon water
- If fluids are dry:
 - Spray with disinfectant; wipe dry with paper towel
- If fluids are wet:
 - Place paper towel or absorbent material over fluid to soak it up
 - Then spray the area with disinfectant; wipe dry
 - Put all contaminated materials in a red bag with a biohazard sticker

Exposure Incident

 A specific incident involving contact with blood or OPIM

 Report all incidents involving blood or bodily fluids to supervisor

Supervisor will complete an accident/incident report

Regulated Medical Waste

- Liquid or semiliquid blood or OPIM
- Contaminated items that would release blood or OPIM when compressed
- Contaminated sharps
- Waste containing blood or OPIM

Regulated Medical Waste

 Contact EHS for pick-up and disposal of regulated waste

 DO NOT THROW CONTAMINATED MATERIAL IN THE TRASH CAN

Labels and Signs

- Labels must include the universal biohazard symbol, and the term "Biohazard" must be attached to:
 - Containers or red bags of regulated biohazard waste
 - Sharps containers used to store, transport, or ship used needles

Biohazard Warning Label

 Warning Label must be placed on biohazard red bags and sharps containers



Hepatitis B Vaccination

The Hepatitis B Vaccination is offered after training to the following employees of Jay Industries, Inc.:

- Employees trained to offer First Aid and CPR
- Janitorial
- Maintenance

Hepatitis B Vaccine

- Three part vaccine timed over a period of months
- Offers protection for Hepatitis B
- Given by Avita at no cost to the employee
- See handout or ask medical provider about side effects and complications of vaccine
- Contact Human Resources to authorize and schedule the vaccine
- If vaccine is refused, must sign declination form

Exposure Incident

- A specific incident of contact with potentially infectious bodily fluid
- If there are no infiltrations of mucous membranes or open skin surfaces, it is not considered an occupational exposure
- Report all accidents involving blood to bodily fluids
- Post-exposure medical evaluations are offered

What to do if exposure occurs?

- Wash exposed area with soap and hot water
- Flush splashes to nose, mouth, or skin with water
- Irrigate eyes with water or saline
- Report the incident to a supervisor
- Complete an Accident/Incident report
- Contact Human Resources for direction

Post-exposure follow-up

- Jay Industries, Inc. Human Resources will:
 - Direct employee to Avita or OhioHealth MedCentral
 - Provide documentation of route of exposure and how it occurred via the Accident/Incident form completed by supervisor
 - Identify and obtain written consent from source individual for follow-up testing

Post-exposure follow-up

Health Care Provider will:

- Obtain sample from source individual and exposed employee and test blood as soon as possible after incident
- Advise exposed employee on possible vaccination and treatment options
- Provide written opinion of findings to employer and copy to employee within 15 days of evaluation

Recordkeeping

Medical records include:

- Hepatitis B vaccination status
- Post-exposure evaluation and follow-up results

Training records include:

- Training dates
- Contents of the training
- Name and qualifications of trainer

Administration

Environmental, Health and Safety (EHS)
 Department is the keeper of the plan and reviews it every year

 Human Resources (HR) can be contacted about the Hepatitis B vaccine

• Questions? Contact EHS or HR

Summary

Bloodborne Pathogen rules are in place to protect your health and safety.

Follow the rules to reduce your risk of disease.

Failure to follow the rules is a risk that you should <u>not</u> take.

Any Questions?

• Questions?

■ Issues?

■ Problems?