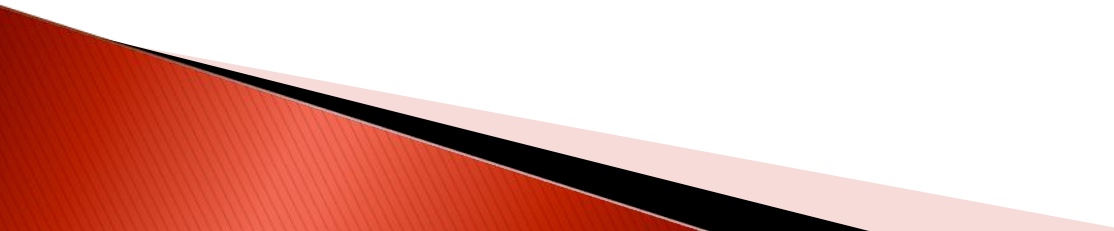


Bloodborne Pathogens

Occupational Safety and Health Course for
Healthcare Professionals



Objectives

- Define bloodborne pathogens.
 - Recognize OSHA standards related to bloodborne pathogens.
 - Identify employer responsibilities related to compliance with OSHA standards.
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Definition

- Bloodborne Pathogens

Pathogenic microorganisms that are present in human blood or other potentially infectious materials and can cause disease in humans.

- Pathogens include but are not limited to:
Hepatitis B
HIV – human immunodeficiency virus

OSHA Standard

- 29 CFR 1910.1030, Occupational Exposure to Bloodborne Pathogens
- Published December 1991
- Effective March 1992
- Scope
 - ALL occupational exposure to blood and other potentially infectious material (OPIM).

Why the concern?

Hepatitis B

HIV/AIDS

OSHA ESTIMATES 5.6 MILLION WORKERS IN HEALTH CARE AND OTHER FACILITIES ARE AT RISK OF EXPOSURE TO BLOODBORNE PATHOGENS SUCH AS HUMAN IMMUNODEFICIENCY (HIV) AND HEPATITIS B (HBV).

What would you do?

and what would other employees do?

- Employee falls, sustains cut to scalp – fair amount of bleeding.

Occupational Exposure

- ...reasonably anticipated skin, eye, mucous membrane, or parenteral contact with blood or other potentially infectious materials that may result from the performance of an employee's duties.
- Duties may include:
 - Direct Patient Care
 - Phlebotomy/Laboratory
 - Environmental Services
 - Waste Management
 - Other?



Exposure Control Plan: Key Components

◦ Exposure Determination

- all job classifications in which all employees in those job classifications have occupational exposure.
- job classifications in which some employees have occupational exposure.
- all tasks and procedures...in which occupational exposure occurs and that are performed by the above listed employees.

Exposure Control Plan

- The schedule and method of implementation for:
 - Methods of compliance.
 - Hepatitis B vaccination and post-exposure evaluation and follow-up for any exposure.
 - Communication of hazards to employees.
 - Recordkeeping.

Exposure Control Plan

- The procedure for the evaluation of circumstances surrounding exposure incidents:
 - Immediate availability for exposed employees to confidential medical evaluation and follow-up.
 - Documentation of the route(s) of exposure, and the circumstances under which the exposure incident occurred.

Methods of Compliance

- **Standard (universal) Precautions**

- ...**shall** be observed to prevent contact with blood or other potentially infectious materials.
- ...**all** body fluids shall be considered potentially infectious materials.

Engineering & work practice controls

Purpose - to eliminate or minimize employee exposure:

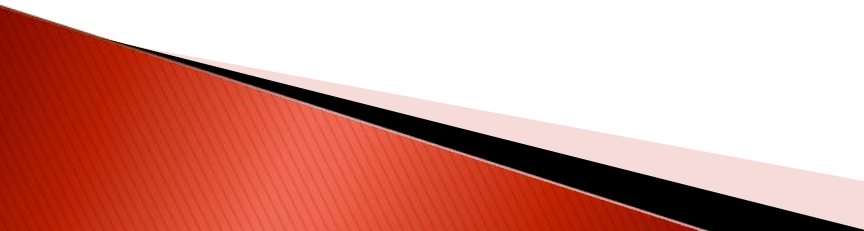
- Readily accessible hand washing facilities.
- Contaminated sharps management.
- Keeping food and drink out of the work area.
- Procedures involving blood handling.
- Transport of specimens.
- Contaminated equipment.

- CFR 1910.1030 (d)(2)

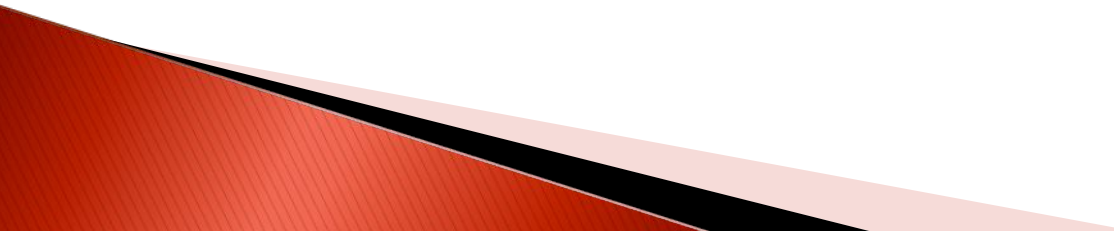
Hand Hygiene is a Continuing Challenge

- Provide alcohol-based hand cleansers in multiple locations.
- Monitor use by volume replacement and observation.
- When they should be used: if hands are not visibly dirty, if soap and water are not available.
- Frequent use is recommended, good amount, rubbing into all surfaces of hands until dry.
- Washing with soap and water: careful technique, 20-30 seconds, if hands are dirty, and after direct contact with potentially infectious material, after toileting, and when caring for a patient with a C. Difficile infection.

Personal Protective Equipment

- Shall be used where exposure remains after institution of engineering and work practice controls.
 - Employer shall provide appropriate PPE at no cost to employee.
 - May include: gloves, gowns, laboratory coats, face shields or masks, eye protection, mouthpieces, resuscitation bags, pocket masks, or other ventilation devices.
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Housekeeping/Environmental Services

- Worksite maintained in clean and sanitary condition.
 - Cleaning and decontamination of items.
 - Safe disposal.
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Regulated Waste

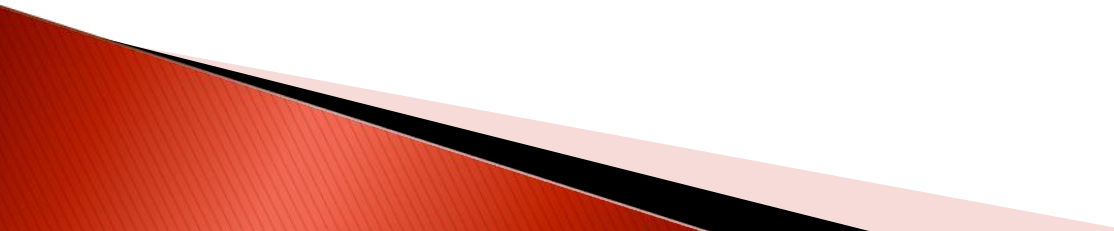
- Contaminated sharps discarding and containment:
 - Approved sharp containers
 - Easily accessible
 - Upright
 - Not allowed to overfill
 - Container removal
 - Close immediately prior to removal
 - Place in secondary container if leakage is possible
 - Reusable containers
 - Not opened, emptied, or cleaned manually

Regulated waste

- Other regulated waste containment:
 - Closeable, constructed to contain all contents, labeled or color-coded, closed prior to removal.
 - If outside contamination of the container occurs, it shall be placed in a second container.
- Disposal of all regulated waste shall be in accordance with applicable regulations.



Post-exposure evaluation and follow-up

- Documentation of the route(s) of exposure.
 - Identification and documentation of the source individual.
 - Collection and testing of blood for HBV and HIV.
 - Post-exposure prophylaxis and care.
 - Counseling.
 - Evaluation of reported illnesses.
- 

Communication of Hazards to Employees

Labels and Signs

Information and Education

- At the time of initial assignment
- At least annually
- When changes occur
- Content and vocabulary appropriate to educational level, literacy, and language of employees.

Why do we not have 100% compliance?

- Lack of training
- Busy, hectic, rushing
- Decreased awareness of hazards
- “won’t happen to me....”



In Summary

- Definition and scope.
- OSHA standards relating to Bloodborne Pathogens.
- Employer responsibilities.

***Think Safety
Not Just Compliance!***

Resources

Dewey Public School

School Nurse

Joni Javellas

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It is mandatory that you now complete a short monkey survey from the PD on Bloodborne Pathogens. Please click on the appropriate link that corresponds with your site.

Elementary Staff:

<https://www.surveymonkey.com/r/ZG5JGV2>

Middle School Staff:

<https://www.surveymonkey.com/r/5272GST>

High School Staff:

<https://www.surveymonkey.com/r/52SQFSZ>

THANK YOU!

