

Bloodborne Pathogens Training For School Personnel





OSHA Defined:

- Occupational Safety and Health Administration
- Published a standard to reduce or eliminate health risk, resulting in:
 - Annual training of employees
 - Safe workplace environment
 - Exposure Control Plans

Exposure Control Plan

- Defines who is at risk
- Outlines procedures to minimize or eliminate exposures to blood- borne diseases
- Procedures to follow in event of exposure
- Be sure to locate the Exposure Control Plan on your campus



Bloodborne Pathogens What are they?

- Infectious materials in human blood and body fluids that can cause disease in humans.
- Exposure can result in serious illness or death.
- These pathogens include, but are not limited to, hepatitis B virus (HBV) and human immunodeficiency virus (HIV).

Who is covered?



- Anyone who can anticipate coming in contact with blood or body fluids while at work.
- The school system is required to identify personnel whose job duties may expose them to blood or body fluids.
- Everyone is required to receive information on the dangers of exposure.

Who is at risk?

 Anyone who comes in contact with human blood or body fluids.

 Anyone who touches potentially contaminated surfaces or equipment.

How do bloodborne pathogens enter your body?

Indirect Transmission

- Open cuts and nicks
- Skin abrasions
- Dermatitis
- Acne
- Mucous membranes of eyes, nose or mouth



Workplace Transmission





- Blood
- Body Fluids containing visible blood
- Semen and vaginal secretions
- Torn or loose skin

Workplace Transmission

Accidental Injury

- Broken Glass
- Sharp metal
- Needles
- Knives
- Orthodontic wires that are exposed



Not infectious for bloodborne pathogens

- Feces
- Urine
- Tears
- Saliva



- Vomitus
- Sputum
- Sweat

** unless visible blood

Reducing Your Risk of Exposure

- Universal Precautions
- Personal protective equipment

Gloves, mask, gown, lab coat, face shield, protective eye wear

- Engineering controls
- Housekeeping
- Hepatitis B vaccine



Universal Precautions

- Treat all blood and body fluids as potentially infectious.
- Critical because it is impossible to tell who is infected with HBV or HIV by appearances.
- Many have no knowledge or symptoms of their disease.





PPE Selection Based on Anticipated Exposure

- Gloves- any time contact with blood or other body fluids may occur
- Masks and eye protection- if there is any chance of splashing into the mouth nose or eyes
- Gowns/lab coats, shoe covers- risk of splattering or spilling on clothes or skin

Engineering Controls

Devices that reduce employee risk by isolating or removing the hazard

Examples:

Sharps containers
Safety medical devices
Biosafety cabinets



Work Practice Controls

- Depends on you!
- Examples- proper handwashing, getting Hep B vaccine





proper handling of sharps proper disposal of infectious waste wearing appropriate PPE

When to wash hands

- Before and after touching someone or something potentially infectious
- After removing gloves

After handling potentially infectious

material

- After using the bathroom
- Before eating, smoking, applying cosmetics, handling contact lens



Work Practice Controls



Handwashing- Single most important means of preventing the spread of infection

* Waterless hand cleaner-only if no soap and water available!





Personal Hygiene

- Minimize spattering, spraying and splashing when attending to an injured person.
- Don't eat, drink, smoke, apply cosmetics or lip balm or handle contacts where there is a risk for exposure.
- Don't keep food and drink in refrigerators, freezers or countertops where blood or other infectious materials are present.

Biohazardous Waste Disposal

- Discard contaminated sharps in approved sharps containers
- Discard all other infectious material in red biohazard trash bags
- Picked up by biohazard waste technicians
- Incinerated



International Biohazardous Waste Symbol



Housekeeping/Decontamination

- Disinfect equipment and surfaces with approved disinfectant (Dispatch, 10% bleach solution, Saniwipes) when..
 - Surfaces become contaminated
 - At the end of the work shift
 - After any spill of blood or other potentially infectious material (OPIM)

Blood or OPIM Spill Procedure

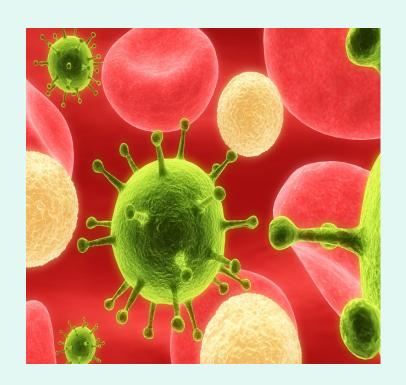
- Prevent accidental exposure to others
- Wear appropriate PPE
- Absorb spill (paper towels or biohazard spill kit)
- Spray Dispatch or bleach solution, set for 10 min. or air dry
- Dispose of all cleaning materials and PPE in biohazard trash bag

Bloodborne Pathogens of Concern

Hepatitis B

Hepatitis C

HIV/AIDS



Hepatitis B

- Infection of the liver
- Can lead to cirrhosis, liver cancer and death
- 20% risk of infection with a contaminated sharp
- Virus can survive in dried blood days

Symptoms of Hepatitis B

- Fatigue
- Loss of appetite, nausea
- Jaundice (yellowing of skin and eyes)
- Fever
- Abdominal pain, joint pain
- 30% have no symptoms
- Preventable





Hepatitis B Vaccine

- Recommended for all high risk groups
- Free- provided by employee health
- Safe
- 3 shots- initial, 1mo., 6mo.
- Life long immunity
- Decline- must sign OSHA waiver



Do I need Hep B Vaccine?

DO YOU?

- Work directly with human blood products, body fluids, tissue (athletic trainer, coach, shop teacher, school nurse, P.E teacher)
- Give assistance to accident or injury victims on a regular basis (first responders)
- Clean up blood or other bodily fluids (custodians, teacher who work with developmentally disabled students, bus mechanics)

Hepatitis C

- Most common chronic blood borne infection in US
- Causes liver damage, cirrhosis and liver cancer
- Leading reason for liver transplants
- 2% risk of infection by contaminated sharp

Symptoms of Hepatitis C

Same as Hepatitis B

- May occur within 2 weeks to many years
- 85% don't know they are infected



Hepatitis C Vaccine

 There is NO vaccine and NO cure for Hepatitis C!

 There are 50,000 needlesticks annually related to HCV infected patients



Major Risk Factors for Hepatitis B and C

- Sexual activity with multiple partners
- IV drug use
- Hep B- neonatal transmission
- Hep C- blood transfusion prior to 1990



small risk- tattooing, body piercing, shared nasal cocaine



HIV/AIDS

- Attacks the body's immune system
- Unable to fight off other infections
- No vaccine and no cure
- 6,000 new infections every day



Symptoms of HIV

 Mild flu-like symptoms initially (fever, swollen glands)

 May be free of symptoms for months to many years

Eventually leads to AIDS and death

HIV Transmission



High risk sexual activity and IV drug abuse account for 80%

Neonatal

Accidental occupational exposure



Chances of Infection

 If you are exposed to HIV infected blood/ body fluids by:

- A dirty needle/sharp: 3 in 1000 (0.3%)
- Mucous membrane splash: 1 in 1000 (0.1%)
- Non intact skin: 1 in 1000 (0.1%)
- Prompt antiviral treatment after exposure can reduce risk of infection by 60 – 80%

What if I am exposed?

Wash with soap and water



 Splash to mucous membranes- rinse or flush with water for 15 min.

Have source of infection remain available

Who needs to know?

:

Principal

School Treasure will contact Human Resources Department



School Nurse

Follow guidelines found in your Exposure Control Plan

Post Exposure Follow Up

Follow county's policy for exposure

 Complete appropriate forms referenced in your counties exposure control plan

Confidentiality is maintained





Occupational Exposure to Bloodborne Pathogens: Flow Chart

Bloodborne Pathogens Exposure incident occurs

Employee reports to School Nurse AS SOON AS POSSIBLE (within 24 hours). Employee and School Nurse complete Exposure Incident Report. School Nurse contacts designated GMC employee. Employee and Source go to Faison or B-ville clinic as directed by GMC

Employee takes:

1-Copy of Incident Report

2-Employee's HBV status and other relevant information

GMC:

- 1-Evaluates exposure incident and completes OSHA form 301 and Form 19.
- 2-Tests Employee and Source for Bloodborne Pathogens
- 3-Provides counseling
- 4-Provides post-exposure prophy through DGH if indicated
- 5-Sends a written opinion to DCS Workers Compensation and Lead School Nurse and Employee within 15 days of visit
- 6-Provides additional bloodwork as indicated at designated intervals

Employee receives a
Copy of medical
Opinion and follows
Medical
Recommendations.

EMPLOYER'S REPORT OF EMPLOYEE'S INJURY OR OCCUPATIONAL DISEASE TO THE INDUSTRIAL COMMISSION

The filing of this report by an employer is required by law. It does not satisfy the employee's obligation to file a claim.

IC File # Emp. Code # Carrier Code # Employer FEIN_

Carrier File # The LC. File # is the unique identifier for this injury. It will be provided by return letter and is to be referenced in all future correspondence.

The Use Of This Form Is Required Under The Provisions of The Workers' Compensation Act

							``			
Employee's Name				Employer's Name				Telephone Nu	mber	
Address				Employer's Address	s		City	State	Zip	
City State Zip				Insurance Carrier		Policy Number				
()	,		()	moore carrer			Poncy N	umber		
Home Telephone			Work Telephone	Carrier's Address			City	State	Zip	
Social Security Number Sex Date of Birth			() Carrier's Telephone	Number	(x Number			
Employer	1.	Give nature of em	pployer's business							
	2.	Location of plant	where injury occurred							
Time		County Department State if employer's premises						ises		
And	3.	Date of injury	4. Day o	of week	Hour of day	. ,	A.I	VI.	P.M.	
Place	5.		aid for entire day		ability began			A.M.	P.M.	
	7.	7. Date you or the supervisor first knew of injury 8. Name of supervisor								
	9.	Occupation when injured								
	10.	(a) How long employed by your (b) Wages see hour \$								
Person Injured	11.	1. (a) No. hours worked per day (b) Wages per day \$ (c) No. of days worked per week								
		(d) Avg. weekly wages w/overtime (e) If board lodging fuel or other advantages were								
		furnished in addition to wages, give estimated value per day, week or month. \$								
	12.									
Cause										
And		(Statemer	of made without prejudice ar	nd without vouching for	correctness of information	on contai	ned therei	n)		
Nature	13.	(Statement made without prejudice and without vouching for conrectness of information contained therein) List all injuries and specify body part involved (e.g. right hand or left hand)								
Injury	14.	Date & hour return	ned to work	* 15	5. If so, at what was	ıes				
	16.	At what occupation 17. Are you continuing the employee's salary in full Was employee treated by a physician								
Fatal	18.		yee died If	so sive data of de	-AL (C. L. 115 - 00					
Cases			11	so, give date or de	eath (Submit Form 29)				
Employer name	e				Date Comp	oleted				
Signed b	у			Official Ti	tle					
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	Nature
	Body
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