

Bloodborne Pathogens

Take Precautions to Stay Healthy

Section I

Introduction

Introduction

- OSHA's standard
- Bloodborne diseases

Introduction

- Exposure control plan
- Recognize exposure
- Control measures
- PPE

Introduction

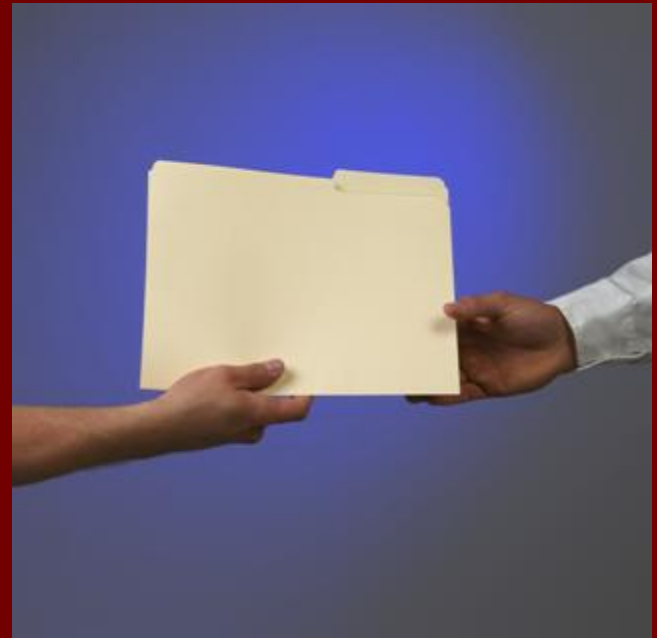
- HVB vaccination
- Exposure incident
- Post-exposure incident
- Labels, signs

Section II

OSHA's bloodborne pathogens standard

OSHA standard

- Exposure control plan
- Exposure determination
- Universal precautions



OSHA standard

- Control measures
- PPE
- Housekeeping
- Research labs



OSHA standard

- HBV vaccination
- Post-exposure incident
- Hazard communication
- Recordkeeping

Section III

Bloodborne diseases

Bloodborne diseases

Hepatitis B (HBV)

HBV symptoms

- 30% – no symptoms
- Jaundice
- Fatigue
- Abdominal pain

HBV symptoms

- Loss of appetite
- Nausea, vomiting
- Joint pain



HBV characteristics

- Infection rate declining
- Highest in 20–49-year-olds

HBV transmission

- Needlestick
- Contaminated sharps
- Direct contact



Bloodborne diseases

- HIV

- AIDS

HIV infection

- May have no symptoms
- Fever
- Headache
- Fatigue
- Swollen glands

HIV infection

- Weight loss
- Fevers
- Skin rashes



HIV infection

- Memory loss
- Infections

AIDS symptoms

- Weight loss
- Nausea, vomiting
- Diarrhea

AIDS symptoms

- Extreme fatigue
- Coughing
- Fever
- Sore throat
- Headaches



AIDS symptoms

- Confusion
- Loss of vision
- Seizures
- Coma



AIDS characteristics

- Over 800,000 cases
- About 5% were health care workers

HIV transmission

- Needlesticks
- Contaminated sharps
- Direct contact

Section IV

Exposure control plan

Exposure control plan

- Job classifications, tasks
- Provisions of standard
- Exposure incidents

Section V

Recognizing exposure

Recognizing exposure

- Occupational exposure
- Exposure incident

Recognizing exposure

- Blood
- OPIMs
- Parenteral
- Source individual



Recognizing exposure

- Contaminated
- Decontamination
- Regulated waste



Section VI

Exposure control

Engineering controls

- Isolate, remove hazard
- Sharps injury protection
- Needleless systems



Work practice controls

- Change procedures
- Handling needles

Work practice controls

- Eating, drinking
- Minimize splash
- Universal precautions



Universal precautions

Treat all human blood & certain human body fluids as infectious

Handwashing

- After removing gloves, PPE
- Use sink or antiseptic cleaner



Housekeeping

- Schedule
- Food, drink
- Contaminated equipment

Housekeeping

- Broken glassware
- Disposal

Section VII

Personal protective equipment (PPE)

PPE

- No cost
- Gloves
- Gowns
- Lab coats



PPE

- Face shields
- Eye protection
- Ventilation devices



Gloves

- Blood
- OPIMs
- Mucous membranes
- Non-intact skin



Gloves

- Contaminated items
- Vascular procedures

Masks & eye protection

- Splashes
- Spray
- Spatter
- Droplets

Protective clothing

- As needed



PPE

- Readily available
- Sizes
- Hypoallergenic



PPE removal

- Contaminated
- Damaged
- Before leaving area
- Proper containers



PPE

- Use is required
- Special situations documented

Section VIII

Hepatitis B vaccination

HBV vaccination

- No cost
- Licensed professional
- Public health recommendations



HBV vaccination

- After training
- Within 10 days

HBV vaccination

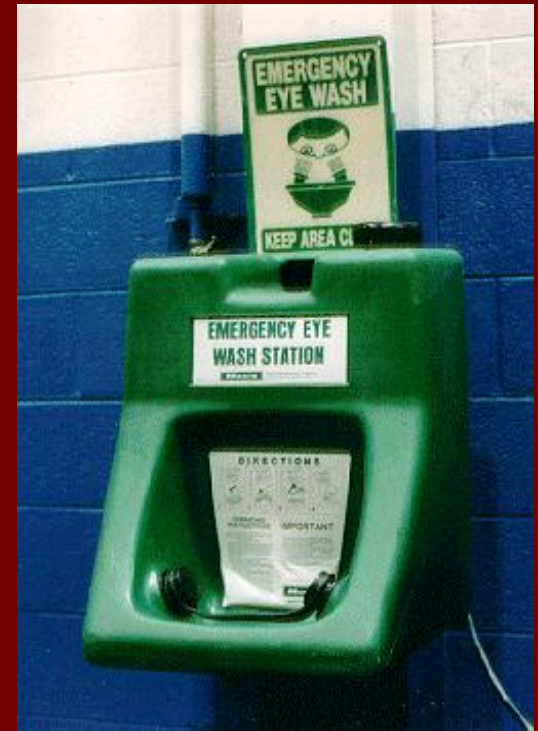
- No pre-screening
- Declination form
- Can get later

Section IX

Exposure incident

Exposure incident

- Wash with soap, water
- Flush mucous membranes
- Irrigate eyes



Exposure incident

- Report
- Medical assistance

Section X

Post-exposure

Medical evaluation

- How exposure occurred
- Identify source individual
- Test source individual



Medical evaluation

- Test exposed employee
- Vaccination
- Counseling
- Evaluate illness



Section XI

Labels and signs

Warning labels

- Containers
- BIOHAZARD
- Red bags



Warning signs

- HIV, HBV labs, facilities
- BIOHAZARD
- At entry



Section XII

Conclusion

Summary

- OSHA's standard
- Bloodborne diseases

Summary

- Exposure control plan
- Recognize exposure
- Control measures
- PPE

Summary

- HVB vaccination
- Exposure incident
- Post-exposure incident
- Labels, signs

Questions?