Hazardous Materials

- Written & Training Program
- MSDS’s/ Chemical Inventory
- Labels and Warning System
- Bloodborne Pathogens
This standard is based on a simple concept –

- Employees have both a need and a right to know the hazards.

- The identities of the chemicals they are exposed to when working.

- Need to know what protective measures are available to prevent adverse effects from occurring.
MSDS’s - Basic Components

• Available online under CVMC Favorites
• Chemical Fact Sheets/Inventory
• Includes chemical updates
• Differing Formats by dept.
• Good first resource
• Don’t forget to ask your supervisor
Written/Training Program:

Access Information from

- Environmental Specialist - x4477
- Your Supervisor
Chemical Spill Plan

Chemical Spill

Does the spill involve a fire?

Yes: R.A.C.E.

No: Are there injuries involved?

Yes: 1. Respond appropriately
   - First Aid?
   - Eyewash?
   - Deluge Shower
   2. Contact ER

No: Is the spill a Chemotherapy Agent? Radioactive?

Yes: 1. Chemotherapy Agents
   - Call Pharmacy x 4169 (days)
   - Call Nurse Supervisor Pager 452-7520 (evenings)
   2. Radioactive Materials
   - Call X-Ray x 4249

No: Is the spill a Chemotherapy Agent? Radioactive?
Yes

Clean up spill with the appropriate Safe Equipment and Spill Kit

No

Is the spill a Chemotherapy Agent? Radioactive?

Yes

IS THE SPILL INCIDENTAL?
Expected Day to Day Occurrence

No

1. Evacuate area.
2. Call Emergency Line x 4333.
3. Secure area and wait for assistance.
4. Contact Triumvirate for large scale cleanup 800-966-9282
A “Code Orange” pertains to any hazardous materials event, internal or external.
If there is a Chemical Exposure...

The CVMC Safety Officer will contact you.

Review the MSDS before and after an emergency.
You should know:

- the different types of wastes generated at CVMC
- know how to safely handle them
- what types of containers they are disposed in
- the color and/or hazard warning labels on each type container
Central Vermont Medical Center
Waste Management

**RED BAGS**
Regulated Medical Waste
- Items SOAKED or DRIPPING with Blood or body fluids
- Tissues, organs, body parts
- Containers of blood or body fluids that cannot be easily emptied

**CHEMOTHERAPY**
Regulated Waste
- White or Yellow Containers with Chemotherapy Label
- Any item or material contaminated with a Chemotherapy agent

**BLACK BAGS**
Non-Regulated Waste
- General Waste
  - Items with small amount of blood or body fluids
  - Items contaminated with urine or fecal matter
  - Food or related items
  - All other items that are not recyclable

**SHARPS**
Opaque Container
- Needles and syringes
- Scalpel Blades, surgical staples, etc.
- Any contamination item that can puncture skin or the Red Bag

**RECYCLABLES**
Recycling Materials
- Blue containers
- Magazines, color or white paper, newspaper, cardboard, clean plastic containers, batteries
- Call Ext. 4172 for other recyclable items
You should know:

Bio-hazardous Materials

- Red bags/containers
- Biohazard labels
- Biohazard containers
Occupational Exposure to...

- Human Blood
- All body fluids

*What is a pathogen?*

A Disease causing micro-organism...
Bloodborne Pathogens

Some pathogens of concern...

- Hepatitis B Virus (HBV)
- Hepatitis C Virus (HCV)
- Human Immunodeficiency Virus (HIV)
Bloodborne Pathogens

Modes of Transmission...

- **Direct**
  (person-to-person)

- **Indirect**
  (person-to-object-to-person)
Hepatitis B Vaccine

- Safe
- Effective
- Free of charge
- Series of 3 shots
- Contact the Employee Health Nurse at x4323 if you have not had the series and would like to...
Bloodborne Pathogens

Access Information from:

• **Infection Control** at x4184

• **Environmental Specialist** at x4477

• **Your Supervisor**
Bloodborne Pathogens
Exposure Control Plan

• **Purpose:** Written document to provide a safe working environment and reduce the risk of exposure to Bloodborne pathogens

• For a copy contact Infection Control at x4184

• Location: Infection Control Manual

  CVMC Root/Shared Files
Bloodborne Pathogens Exposure Control Plan

- Personal Protective Equipment
- Job Task List
- Engineering Controls
- Work Practice Controls
- Post Exposure Management
- Biohazardous Labeling
- Waste Management
- Bloodborne Pathogen Training
Assumptions:

- You **DO NOT** know what is clean in the clinical area - **Assume nothing** - even if you are told otherwise

- You **DO** have control over your own work practices - **Use Standard Precautions**
Work Practices...
(Taking control of your environment)

- General Rules
- Hand Washing
- Personal Protective Equipment
- Housekeeping
- Handling Sharps
GENERAL RULES

Do Not...

- Eat
- Drink
- Smoke
- Assume anything is “clean”
- Apply cosmetics
- Apply lip balm
- Handle contact lenses
Some potentially contaminated surfaces in the environment...

- Keyboards
- Pencils, pens, etc…
- Chairs
- Phones
- Counters
Hand Washing

Use Alcohol-based hand sanitizer
- For routine use
- Before and after patient care

Use Alcohol-based hand rubs
- Significantly reduces the number of organisms on hands
- Are fast-acting
- Causes less skin irritation than soap and water
- Saves time
Use soap and water

- Before preparing food and eating
- When hands are visibly soiled
- After using restrooms
- C-difficile
- Well lathered hands - for 20+ seconds
PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Gloves
- Eye protection
- Gowns
- Masks/Respirator
Cleaning/Decontaminating surfaces

- Appropriate disinfectant
- Work surfaces, tools, equipment
Anything contaminated with a bio-hazardous material that potentially could puncture, inject, etc…
What should I do if an exposure occurs?

- Thoroughly wash exposed area
- Contact Supervisor/Report immediately to Emergency Department
  
  Optimal time for post-exposure prophylaxis (PEP) is 1-2 hours post exposure
Congratulations, you have completed your review of the 2015 EOC Hazardous Materials Presentation!

You now need to complete the 2015 Hazardous Materials Training Exam to demonstrate competency on the material that you just covered. In order to successfully pass, you must receive a score of 80% or greater.