

# Biosafety at MUSC

## ■ *Unit 6*

### ◆ *Requirements for the Bi-Annual Inspection*



# *Laboratory Inspections*

## ■ Every two years

## ■ Information Needed

◆ PI's name, department, building, room number, lab manager, phone, mail code, email, etc.

### ◆ Laboratory Safety Manual

☞ Protocols or Standard Operating Procedures

☞ Complete inventory of the Biohazardous materials

- prions; genomic sequences; viroids; viruses; rickettsiae/chlamydia; bacteria; parasites; plants/plant, pathogens; animals; human/primate blood; human body fluids, cells and tissues

☞ IBC approval forms and number(s)

☞ Emergency call-list

☞ Outline of Annual Safety Training Session and Risk Briefing

☞ Acknowledgement of Annual Safety Training and Risk Briefing

# *Laboratory Inspections*

## ■ Facility/Equipment

### ◆ Things we will expect and look for:

- ☞ Airflow from lower-hazard to higher-hazard areas
- ☞ Designated clean area
- ☞ Any hazardous material in designated clean area
- ☞ Neat or cluttered work areas
- ☞ Biosafety cabinet: make, model, size, number
- ☞ Negative-pressure thimble connection on biosafety cabinet
- ☞ Biosafety cabinet certification
  - At least once per year
  - Date of last certification

# *Laboratory Inspections*

## ■ Facility/Equipment

### ◆ Things we will expect and look for:

☞ Decontamination of biosafety cabinet before use

☞ Decontamination of biosafety cabinet after use

- Neat or cluttered grate in biosafety cabinet
- Neat or cluttered work area in biosafety cabinet
- HEPA filter on vacuum line
- How full is the suction flask

☞ Autoclave

- Make, model, frequency of autoclave calibration, log

# *Laboratory Inspections*

## ■ Facility/Equipment

### ◆ Things we will expect and look for:

#### ☞ Centrifuge

- make, model, condition of centrifuge bucket, condition of centrifuge rotors (check for stress cracks),
- condition of centrifuge interior (check for residue buildup), log

#### ☞ Spill-kit availability

# *Laboratory Inspections*

## ■ Work Practices

### ◆ Things we will expect and look for:

- ☞ Aerosol-generating procedures and steps taken to control them
- ☞ Effective use of biosafety cabinets
- ☞ Surface decontamination: disinfectant used, contact time, frequency
- ☞ Are lab coats worn or not ?
- ☞ Are safety glasses required; if so, are they worn or not ?
- ☞ Any evidence of eating in the lab areas

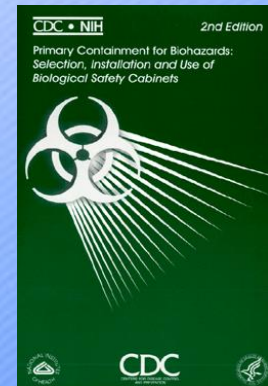
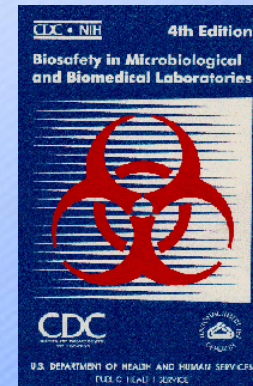
### ◆ Interview of laboratory personnel



# ***Principles of Biosafety***

## **Summary**

- **BSL 1 - 4**
  - ***Standard Practices***
  - ***Special Practices***
  - ***Safety Equipment (Primary Barriers)***
  - ***Laboratory Facilities (Secondary Barriers)***
  - ***Building (Tertiary Barriers)***



# Biosafety at MUSC

- *Questions Unit 6*
  - ◆ *Requirements for the Bi-annual inspection*

