

# Biocontainment Unit

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## ■ Unit Design

- 10 beds (5 rooms)
- Negative pressure rooms
- HEPA filtration (15 air exchanges)
- UV for filtration
- Dunk Tank
- Pass Thru Autoclave
- Decontamination shower

## ■ Competency of Staff

- Basic Disaster Life Support & Advanced Disaster Life Support
- Biocontainment Unit staff serve as instructors of these courses
- ACLS; BLS; PALS

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- Smallpox
- Plague
- Viral Hemorrhagic Fever
- Botulism
- Tularemia
- Anthrax
- SARS
- Avian Influenza
- Monkey pox
- Multi-drug Resistant TB and XDRTB

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**Doffing Isolation PPE with N95 Mask**  
Performed in dirty area

Labels: Wear white gloves at all times. Do not touch your face, eyes, nose, mouth, or hair. Do not touch the front of your gown. Do not touch the front of your mask. Do not touch the front of your goggles or face shield. Do not touch the front of your gloves. Do not touch the front of your shoes. Do not touch the front of your cap. Do not touch the front of your hair net. Do not touch the front of your gown. Do not touch the front of your mask. Do not touch the front of your goggles or face shield. Do not touch the front of your gloves. Do not touch the front of your shoes. Do not touch the front of your cap. Do not touch the front of your hair net.

**Step 1** Remove the mask by the straps, avoiding touching the front of the mask. Discard the mask in the designated container.

**Step 2** Remove the cap by the straps, avoiding touching the front of the cap. Discard the cap in the designated container.

**Step 3** Remove the gown by the ties or Velcro, avoiding touching the front of the gown. Discard the gown in the designated container.

**Step 4** Remove the goggles or face shield by the temples, avoiding touching the front of the goggles or face shield. Discard the goggles or face shield in the designated container.

**Step 5** Remove the gloves by the wrists, avoiding touching the front of the gloves. Discard the gloves in the designated container.

**Step 6** Perform hand hygiene.

**Putting On/Removing PPE**

Labels: Wear white gloves at all times. Do not touch your face, eyes, nose, mouth, or hair. Do not touch the front of your gown. Do not touch the front of your mask. Do not touch the front of your goggles or face shield. Do not touch the front of your gloves. Do not touch the front of your shoes. Do not touch the front of your cap. Do not touch the front of your hair net.

**Step 1** Perform hand hygiene.

**Step 2** Put on the cap by the straps, avoiding touching the front of the cap. Discard the cap in the designated container.

**Step 3** Put on the hair net by the straps, avoiding touching the front of the hair net. Discard the hair net in the designated container.

**Step 4** Put on the gown by the ties or Velcro, avoiding touching the front of the gown. Discard the gown in the designated container.

**Step 5** Put on the mask by the straps, avoiding touching the front of the mask. Discard the mask in the designated container.

**Step 6** Put on the goggles or face shield by the temples, avoiding touching the front of the goggles or face shield. Discard the goggles or face shield in the designated container.

**Step 7** Put on the gloves by the wrists, avoiding touching the front of the gloves. Discard the gloves in the designated container.

## Quarterly Drills with Staff & MD's

Description	Drill Activities
Infectious Disease Patient Drill	<ul style="list-style-type: none"> <li>Transfer of supplies in and out of the unit</li> <li>Patient registration and order entry (pediatric and adult)</li> <li>EKG completion</li> <li>Donning and Doffing PPE</li> </ul>
Unit Activation Drill	<ul style="list-style-type: none"> <li>Unit activation checklist</li> <li>Pharmacy pyxis unit filled</li> <li>Order entry and patient kardex</li> <li>Portable x-ray process (cassette and radiology staff safely in and out of unit)</li> </ul>
Regional Biopreparedness Drill with Mock Casualties	<ul style="list-style-type: none"> <li>Transport with Isopod from ED to BCPU</li> <li>Patient care activities</li> </ul>

Infectious Disease Patient Drill	<ul style="list-style-type: none"> <li>Transport with Isopod</li> <li>Unit activation checklist</li> <li>Patient care activities (lab, radiology)</li> <li>Code Blue</li> <li>Removal of linens and trash from unit</li> </ul>
Laboratory Processes	<ul style="list-style-type: none"> <li>Communication with lab</li> <li>Process to send specimens to lab and to public health lab</li> <li>Policy revisions</li> <li>Receipt of laboratory information</li> </ul>
Regional Biopreparedness Education	<ul style="list-style-type: none"> <li>Use of Isopod</li> <li>Use of Bioseal</li> </ul>

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# Policy/Procedure Guidelines

Containment-Use of Bioseal System	Emergency Procedures
Autopsy and Cremation	Immunizations
Activation of the Biocontainment Unit	Infection Control
Bronchoscopy and PFT	Iso-Wash Water Soluable Bags
Cleaning and Disinfecting PAPR Battery-Tubing	Isopod Cleaning and Storage
Code Blue	Isopod Set-Up
Contingency Plan for Surge Capacity	Laundry and Biohazard Waste Removal
Donning Isolation PPE with N95 mask	Medical Record
Doffing Isolaation PPE with N95 mask	Negative Pressure Maintenance
Dunk Tank Maintenance and Use	Obtaining and Processing Laboratory Specimens

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## ▪ Professional Leadership & Collaboration

- OMMRS committee involvement (steering committee; drill committee; hosp. committee, etc)
- Partnership with the College of Nursing *HEROES* to develop educational videos and tools.
- **Activation** Movie Premier-May, 2008
- International Expert Status
- Decon Team Membership

## ▪ Community Education & Training

- **2008:** Tours; Community education; PPE posters city wide; Pandemic planning team; Bioprep Symposium presentations
- **2007:** 55 tours
  - Schools; college students; senators; legislators, board of regents; medical and nursing personnel; foreign dignitaries; military personnel; federal and state employees, JCAHO, and other government personnel.
- **2006:** 50 tours
- **Omaha Metropolitan Medical Response System (OMMRS) and EMS** provider education on donning and doffing personal protective equipment and appropriate use of the Isopod for transport

## ▪ Research

- Isopod
- Large equipment decontamination

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# ***ACTIVATION.....***

***Movie developed to visualize the process for  
activation of the Biocontainment Unit***

**[www.onlineheroes.org](http://www.onlineheroes.org)**

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