

OBJECTIVES:

Upon completion of this training, the participant will be able to:

- 1. Identify the difference in roles of frontline, assessment and treatment facilities.
- 2. Determine safest method of specimen collection on a patient under investigation for Ebola or other high consequence pathogen in your facility.
- 3. Describe why government couriers are exempt from DOT Division 6.2 regulations
- 4. Demonstrate how to prepare a package for transport by local ERC or State Patrol

Hospital Preparedness - Tiered Approach

Interim Guidance for Hospital Preparedness for Evaluation, esting, and Management of Patients under Investigation or with Confirmed Ebola Virus Disease (EVD)

Capabilities

Emerging Pathogens

High Consequence

- Lassa Fever
- Marburg virus
- Monkey Pox
- Smallpox
- SARS
- Highly pathogenic influenza* most likely
- MERS *most likely

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Patients Under Investigation

- Must be prepared to promptly:
 - o Identify low vs high risk
 - Isolate

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- o Inform infection control, local public health agency.
- May be asked to collect specimens for testing
- EMTALA Ensure there is no delay in the care of these patients by being prepared to test, manage, and treat alternative etiologies of febrile illness (e.g., malaria in travelers) as clinically indicated.

Responsibilities



- Frontline Facility:
 - Receives request from state to collect

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- Collect appropriate specimens
- Complete packaging
- Complete NPHL Test Order form Chain-of Custody
- Supervise specimens at all times
- Confirm government courier ID
- Keep paperwork for 2 years
- Government courier:
- Present ID
 - Transport, Supervise specimens at all times
- o Deliver to NPHL with chain of custody
- Nebraska Public Health Laboratory
 - Consult on type of specimens to collect
 - o Arrange transport
 - Perform test and report

Collection Methods

Frontline decides what collection method is optimal:

- Best Practice: Vacutainer system
- Needle and Syringe Use Transfer Device
- IV Line (used in most EDs) One time use?
- Port Line Complicated
- Butterfly Least Safe

Specimen Collection Basics

Frontline Hospital PPE - Follow facility protocol

- Trained Observer/Partner read out-loud the step-by-step checklist
- Work slowly and methodically, be aware of possible contamination.
- If breach is observed, STOP and critically think through the situation.
- Collect specimens
- Multiple disinfection steps
- Multiple glove changes at each step
- Hand to clean side

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Packaging & Transport

Packaging is dependent pathogen suspected and on final destination

- Frontline hospital to on-site laboratory
 - Lab directly across from isolation room?
 - o Lab route requires walking thru units or public areas? TRIPLE PACKAGE
 - Unpack in BioSafety Cabinet
 - Test in BSL-2 using BSL-3 precautions

Preparation Prior to Collection

CHECK & ORGANIZE YOUR SUPPLIES!

Gather supplies to take into PUI isolation area (hot zone):

- Appropriate specimen container(s) as advised by the public health laboratory
 Appropriate collection supplies such as appropriate

 o vacutainer/adapter system or needle & syringe with transfer device

 alcohol pads, iodine preps, etc.
- tourniquet
 other specimen collection devices for respiratory collection, such as nasopharyngeal swab
 Disinfectant wipes
 Large adsorbent pads
- Medical waste container
- Multiple sizes of gloves Printed patient labels with 2 identifiers
- Filmen patient autors win 2 neutriniers

 Permanent Blue or Black link Pen (NO Sharpie)

 Small bio-hazard bags with ABSORBENT MATERIAL (included in kit)

 Large bio-hazard bags (included in kit)

 Trained observer/Partner checklist (included in kit)

- DO NOT TAKE TRANSPORT KIT INTO HOT ZONE

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Partner Assisted Collection

- Designed with staff's safety in mind
- Work with partner, read protocol to eliminate stress
- Staff with previous collection experience
- Use available PPE, multiple glove changes
- Incorporate into current hospital Ebola plan
- Practice, don't wait until real event!!

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Frontline hospital to Public Health Lab

Commercial Couriers

- Most ground couriers do NOT accept
 - Required to carry major liability insurance
 - Not really properly trained
 - Need better vetting of our couriers
- FedEx will accept specimens from PUI
 - Shipper MUST be Certified DOT Div 6.2
 - Use Certificated shipping systems (boxes)
 - Tedious Paperwork

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Frontline hospital to Public Health Lab

Shipping Exceptions to DOT Regulations

- DURING PUBLIC HEALTH EMERGENCIES, LAW ENFORCEMENT AGENTS OR OTHER DESIGNATED STATE OFFICIALS WITH IDENTIFICATION MAY DELIVER SPECIMENS APPROVED BY THE DHHS AS FOUND IN THE 49CFR CODE 171.1 d(5-6):
 - Transportation of a hazardous material by a Federal, state, or local government employee solely for noncommercial Federal, state, or local government purposes.
- Under these circumstances, hospitals may be exempt from using the "official" shipping regulations, including training. Permission for exemption must be granted by state officials.
- Triple package required for safety reasons.

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Demonstration of Packaging by Facility

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 Secure Cable Ties Folder: Procedure Contact Info Map & Directions Chain of Custody **DOT Emergency** Response Information

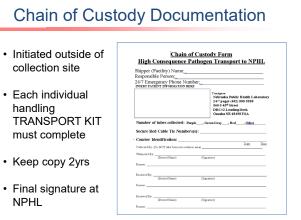
TRANSPORT KIT

Biohazard bag/ adsorbent

Inside Contents:

Category A system

Frozen Gelpaks



Emergency Response Issues

■ If involved in an accident, specifically report a biological spill:

1. Dial 911

2. Page NPHL at:

(402) 888-5588

➤ available 24/7



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Additional Resources

http://www.nphl.org



Contact Information

24/7 Pager (402) 888-5588

Email kstiles@unmc.edu

Exercise PPE/Collection Yearly!

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Exercise PPE/Collection Yearly!

- Patient reports traveling through Newark Airport same timeframe as initial cases
- What does your facility do next?
 - Who makes the decision to isolate?
 - Who do you call?
 - When does your facility activate Incident Command?
 - o Do you do your normal fever testing protocol?
 - o Does your on-site lab have protocol to test in BSL-2 setting using BSL-3 practices?

Exercise PPE/Collection Yearly!

Exercise PPE/Collection Yearly!

Global news reports large outbreak of

Two new cases reported in New Jersey.

Patient arrives in your ER with fever, cough,

When do you ask travel questions, at registration

What if patient was in waiting room for awhile?

traveled through Newark Airport

What does your facility do next? • What PPE is patient given?

or after patient taken in for triage?

Marburg in Congo.

shortness of breath

- Your hospital has decided to testing on respiratory viral panel - results are negative
- What does your facility do next?
 - Send patient home?
 - What testing is on the viral panel?
 - How should this specimen be transported to the PHL?

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