TSA-B Regional High Consequence Infectious Disease Concept of Operations



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1. TABLE OF CONTENTS

2.		Purp	ose a	and Summary of CONOPS	5		
	2.1. I		Purp	Purpose			
	2.2.		Scope				
	2.	3.	Situa	ation Overview	ô		
2.4.		4.	Defi	nition of HCID	6		
	2.	5.	Acro	nyms	6		
3.		Entr	y to F	Healthcare System	3		
	3.	1.	Self-	Presentation to clinic, freestanding ER or physician's office	3		
	3.	2.	Self-	Presentation to an acute care facility ER	3		
		3.2.1	L.	Frontline Hospital	3		
		3.2.2	2.	Assessment Hospital	Э		
	3.	3.	Arriv	/al at airport and symptomatic	Э		
	3.4	4.	9-1-3	1 call for assistance	Э		
		3.4.1	L.	Public Safety Answering Point (PSAP) procedures, including medical dispatching	Э		
		3.4.2.		Response procedures (EMS/Fire/LE)	C		
	3.	5.	Call	to local health department10	C		
4.		Tran	sport	t to Assessment Hospital1	1		
	4.	1.	EMS	1	1		
		4.1.1	L.	Identify EMS providers and appropriate contacts1	1		
		4.1.2	2.	Recommendations for PPE1	1		
		4.1.3	3.	Recommendations of training1	1		
		4.1.4	1.	Donning and Doffing of PPE	2		
		4.1.5	5.	Decon and waste management12	2		
		4.1.6	5.	Security12	2		
	4.	2.	Tran	sport to Frontline Hospital12	2		
	4.	3.	Tran	sport Team Recommendation12	2		
5. Patient Assessment at Hospital			ent A	ssessment at Hospital1	3		
	5.	1.	Iden	tify Assessment Hospitals and appropriate contacts1	3		
		5.1.1	L.	Identify gaps/needs as compared to the eleven domains13	3		
		5.1.2	2.	Assessment Hospital in TSA-B – University Medical Center, Lubbock	3		
	5.	2.	PPE	caches – location(s) and conditions of storage, inventory, & process for requesting1	3		

5.2	2.1.	TSA-B Cache	13
5.2	2.2.	Location	13
5.2	2.3.	Process for Requesting Cache	13
5.3.	Test	ting	14
5.3	8.1.	Identify nearest laboratory response network (LRN) lab with testing capability	14
5.3	8.2.	Authorization to submit a specimen	14
5.3	8.3.	Specimen packaging and transport plan	14
5.4.	Sup	port Systems	14
5.4	l.1.	Public Information Officer (PIO)	14
5.4	1.2.	Disaster Behavioral Health	14
5.4	1.3.	Liaison from Incident Command System (ICS) structure	14
5.4	1.4.	Waste management	14
5.4	1.5.	Security	15
5.4	1.6.	IDRU	15
6. Po	sitive (Case	17
6.1.	Gro	und transportation	17
6.1	.1.	Timing considerations (traffic, weather, etc.)	17
6.1	.2.	Security	17
6.2.	Air t	ransportation	17
6.2	2.1.	Identify airfield	17
6.2	2.2.	Ground checklist	17
6.2	2.3.	Security	17
7. Mo	ortuary	y Services	18
7.1.	Ider	ntify provider of mortuary services	18
7.2.	Sup	plies	18
7.3.	Han	dling of deceased	18
8. Co	ntact l	_ist	19
8.1.	Неа	Ith Departments (24-Hour Contact Number)	19
8.2.	TSA	-B (BRAC)	19
8.3.	LRN	Lab – Lubbock	19
A. Eb	ola Vir	us Disease (EVD)	20
B. Mi	ddle E	ast Respiratory Syndrome (MERS)	22

2. PURPOSE AND SUMMARY OF CONOPS

2.1. PURPOSE

This Concept of Operations (CONOPS) has been developed to give guidelines to First Responders and Healthcare Facilities within Trauma Service Area – B (TSA-B) on dealing with high consequence infectious diseases (HCID) that threaten TSA-B and the State of Texas. TSA-B consists of twentytwo counties on the Texas South Plains, Panhandle, Rolling Plains and Permian Basin. The counties covered by this plan include, Bailey, Castro, Lamb, Hale, Floyd, Motley, Cottle, Cochran, Hockley, Lubbock, Crosby, Dickens, King, Yoakum, Terry, Lynn, Garza, Kent, Gaines, Dawson, Borden and Scurry. This region also falls into three Texas Department of State Health Services (DSHS) Public Health Regions, Region 1, Region 2/3 and Region 9/10. With the diversity of the region, this plan has been developed to give each of the public health regions knowledge of how high consequence infectious diseases will be handled in TSA-B, in coordination with these regional offices.



2.2. SCOPE

This CONOPS is limited to describing operational intent when responding to a person under investigation (PUI) or patients confirmed with a high consequence infectious disease. Jurisdictions have plans for bioterrorism and infectious diseases already in place and consistency between these plans should be maintained. This plan supports the plans of the jurisdictions in TSA-B.

The initial portion of the CONOPS deals with how the patient enters the healthcare system. Once the patient is in the healthcare system the CONOPS deals with isolation, assessment, and transportation. Transportation can be to the frontline hospital, the assessment hospital or a treatment hospital. Key components of the plan are recognition of a possible patient, isolation procedures, proper personal protective equipment (PPE), assessment procedures, contaminated waste, decontamination and handling of deceased. The appendix of this plan contains disease specific information and should be referred to as needed for specific information. This plan cannot cover every situation that might arise, but the general guidelines should be followed and then if unsure of a situation contact either local health department, your regional DSHS Health Region office or the TSA-B office.

2.3. SITUATION OVERVIEW

A high consequence infectious disease may spread rapidly through a population if there is not a system in place to identify, treat and mitigate the threat. The TSA-B region has two avenues by which infected individuals can enter our area, one is by air travel and the other being ground transportation. The healthcare system, both acute and public, must be prepared to respond as needed to any threat.

2.4. DEFINITION OF HCID

A high consequence infectious disease is an infectious disease that:

Presents an immediate threat;

Poses a high risk of death or serious long-term disability to a large number of people; and

Creates a substantial risk of public exposure because of the disease's high level of contagion or the method by which the disease is transmitted.

(Notably the HCID definition is closely tied to the Texas Health and Safety Code definition of a "public health disaster" found in Section 81.003. Definitions (7).)

2.5. ACRONYMS

CDC – Centers for Disease Control and Prevention, US Department of Health & Human Services

- CONOPS Concept of Operations
- DBH Disaster Behavioral Health
- DC District Coordinator
- DDC District Disaster Committee or District Disaster Chair
- DSHS Department of State Health Services
- EMC Emergency Management Coordinator
- EMS Emergency Medical Services
- EMTF Emergency Medical Task Force
- EOC Emergency Operations Center
- ER Emergency Room
- EVD Ebola Virus Disease
- DOT US Department of Transportation
- DPS Texas Department of Public Safety
- HCC Hospital Command Center

- ICS Incident Command System
- IDRU Infectious Disease Response Unit
- HCID High Consequence Infectious Disease
- JIC Joint Information Center
- LE Law Enforcement
- LRN Lab Response Network
- PAPR Powered Air Purifying Respirator
- PHEP Public Health Emergency Preparedness
- PIO Public Information Officer
- PPE Personal Protective Equipment
- PSAP Public Safety Answering Point
- PUI Person Under Investigation
- PUM Person Under Monitoring
- RAC Regional Advisory Council
- RHMOC Regional Health and Medical Operations Center DSHS
- RMOC Regional Medical Operations Center
- SMOC State Medical Operations Center
- SOC State Operations Center
- TIEHH The Institute of Environmental and Human Health Texas Tech University
- TCEQ Texas Commission on Environmental Quality
- TSA Trauma Service Area

3. ENTRY TO HEALTHCARE SYSTEM

3.1. SELF-PRESENTATION TO CLINIC, FREESTANDING ER OR PHYSICIAN'S OFFICE

Each patient should be triaged for a high consequence infectious disease using the appropriate questions as set out in the Appendix for known disease threats in our region.

If the patient is positive for a disease through the triage process, they should be isolated as directed for that disease.

The local health department, if applicable, or your DSHS Regional office should be contacted to discuss the next step for the patient.

3.2. SELF-PRESENTATION TO AN ACUTE CARE FACILITY ER

3.2.1. Frontline Hospital

A Frontline Hospital, is any acute care facility that takes patients in an emergency department setting.

It is imperative that all patients presenting to Triage be asked travel questions or other questions as set out by the Centers for Disease Control (CDC). The current triage questions can be found in the Appendix section of this document.

If the patient is positive for a disease through the triage process, they should be isolated as directed for that disease.

The local health department, if applicable, or your DSHS Regional office should be contacted to discuss the next step for the patient. See Section 3.5.

After discussions with the local health department and DSHS Regional office, a decision will be made whether to move the patient to an Assessment or Treatment hospital, or to hold the patient in the Frontline hospital. If the patient is held and there is confirmation of a HCID, a determination will be made for requesting the Infectious Disease Response Unit (IDRU) through the local Emergency Management Coordinator (EMC). Your EMC will then submit the request through the District Disaster Committee (DDC) for this state resource. This resource will be coordinated through conference calls as set out in Section 3.5.

3.2.2. Assessment Hospital

An Assessment Hospital is a facility designated by the Texas DSHS to assess and hold a patient under suspicion for a high consequence infectious disease. The Assessment Hospital will hold the patient until the disease is confirmed or ruled out. If the patient is confirmed to have a HCID consultation with DSHS and the Assessment Hospital take place to determine whether to transfer to a Treatment Hospital or treat at the Assessment Hospital.

It is imperative that all patients presenting to Triage be asked travel questions or other questions as set out by the CDC. The current triage questions can be found in the Appendix section of this document.

If the patient is positive for a disease through the triage process, they should be isolated as directed for that disease.

The local health department, if applicable, or your DSHS Regional office should be contacted to discuss the next step for the patient.

University Medical Center in Lubbock has been designated as an Assessment Hospital. This is the only Assessment Hospital, currently, in TSA-B, TSA-A and TSA-J. Other facilities can function in this role without being named an Assessment Hospital.

3.3. ARRIVAL AT AIRPORT AND SYMPTOMATIC

Persons entering from a foreign country should be asked questions as directed by CDC for the disease threats in the region.

Appropriate authorities will be notified as directed for the disease, including local Health Department and EMS.

3.4. 9-1-1 CALL FOR ASSISTANCE

3.4.1. Public Safety Answering Point (PSAP) procedures, including medical dispatching. PSAP and dispatch centers should follow the CDC recommended guidelines for questioning callers, if there is a known threat in the region.

Pertinent information should be passed to first responders in order for them to make the best decision on approaching the patient. This information should not be broadcast over the open radio system.

Policies should be in place on who to contact if a call has been received about a suspected HCID patient.

3.4.2. Response procedures (EMS/Fire/LE)

All first responder agencies should have policy or protocol in place to deal with HCID.

This policy or protocol should contain information on how the EMS service will respond. Should the initial responders approach the scene to evaluate it, or should they donn appropriate PPE prior to approaching?

If PPE is warranted, select the appropriate level for the suspected disease.

If public health is not on the scene, make sure a person is assigned to get information for any persons the patient has had contact with. This information should be passed on to your local health department or DSHS.

3.5. CALL TO LOCAL HEALTH DEPARTMENT

Your local health department should be contacted if there is a suspected patient with a HCID. If your jurisdiction does not have a local health department, contact the appropriate DSHS regional office.

Any patient contact information gathered at the scene should be handed off to the health department officials.

Before any patient is moved that is a PUI or a confirmed case, a conference call will be held for the coordination of the transport. Those to be included, but not limited to, on the call are: sending physician, accepting physician, DSHS Regional Office, transporting EMS service, BRAC, Emergency Management in sending and receiving jurisdictions,

4. TRANSPORT TO ASSESSMENT HOSPITAL

4.1. EMS

EMS will be utilized for transport from the Frontline Hospital to a designated Assessment Hospital within the region. Specific EMS services have been identified to do these transfers and are being equipped with appropriate equipment to provide safe transport for a PUI. Requests for transport of a PUI will be made by the Assessment Hospital to the regional medical operations center (RMOC) or Regional Preparedness Coordinator (RPC) after the transfer is accepted. The RMOC or RPC will contact the closest transport agency capable of making the transfer and have them contact the sending facility to coordinate the transport. The RMOC will be activated and monitor the entire transport process.

4.1.1. Identify EMS providers and appropriate contacts

UMC EMS - (806) 775-9911 or (800) 345-9911

The 911 EMS provider for the city of Lubbock and some parts of Lubbock County. Equipped with appropriate PPE, including suits and powered air purifying respirator (PAPR) helmets. Isopod will also be available, if needed, to allow for safe transport of the patient. Has extra ambulances so that transports can be performed without pulling down an on-duty unit. Staff will be trained on proper donning and doffing of PPE as well as transport vehicle preparations. Disease specific information will be given to the crew prior to transport during conference call.

Scurry County EMS – (325) 573-1912

The 911 EMS provider for Scurry County, including the city of Snyder. Equipped with appropriate PPE, including suits and PAPR helmets. Isopod will also be available, if needed, to allow for safe transport of the patient. Scurry County EMS also has an extra ambulance so that transports can be performed without pulling down an on-duty unit. Staff will be trained on proper donning and doffing of PPE as well as transport vehicle preparations. Disease specific information will be given to the crew prior to transport during conference call.

4.1.2. Recommendations for PPE

PPE utilized for PUI or confirmed patients will, **at a minimum**, meet the guidelines and recommendations of the CDC for that specific disease. The Texas Emergency Task Force Infectious Disease Response Unit has determined a set of PPE for EMS transport of a HCID patient. A cache of this recommended PPE is planned to be maintained by TSA-B. If the patient is a confirmed HCID patient, the EMTF IDRU may be activated to provide supplies for the EMS response.

4.1.3. Recommendations of training

Training of the transporting personnel will consist of proper donning and doffing of PPE, proper PPE selection, specific symptoms for the disease they will encounter, and treatment & procedures that will be allowed for the patient while in the ambulance. Specific training will be detailed in the Appendix of this CONOPS.

4.1.4. Donning and Doffing of PPE

The donning and doffing of PPE should be done with an observer present who is utilizing a checklist. This provides safety in that all steps are insured they are completed every time the procedure is done and there is a visual check throughout the process.

4.1.5. Decon and waste management

Decon of the transporting ambulance and crew will be performed at the receiving Assessment Hospital. Waste will be bagged and contained as directed for the specific disease and left with the Assessment Hospital for final disposition.

4.1.6. Security

Information regarding this type of transfer will be between the two facilities, the RMOC and the transporting agency. If security is needed to support the transport, it will be coordinated by the RMOC after reasons are evaluated.

4.2. TRANSPORT TO FRONTLINE HOSPITAL

EMS services should have, at least, the minimum required PPE for transport of a suspected patient. Once a patient is suspected to have a high consequence contagious disease, they should deploy the appropriate PPE and precautions. Notification of the receiving facility should be done as soon as possible to allow the time to prepare for the patient.

If the patient is stable, discussions may take place on transporting the patient directly to the Assessment Hospital. These discussions should include public health officials, EMS, physicians at Frontline and Assessment hospitals and the Regional Preparedness Coordinator.

4.3. TRANSPORT TEAM RECOMMENDATION

The goal of the transport service is to provide a safe and appropriate transfer of the patient. This includes providing the best care for the patient and providing the best protection for the providers. A conference call with all parties involved will take place before a transfer is made. The normal team should be made up of an advance team made up of a nurse from the receiving facility and a paramedic. This team will provide coordination for the transport and get all the information that the receiving facility needs. The nurse can also be used on the ambulance during transport if needed. Two ambulances will be used with full crews. One is primary and then the second is for backup, in the event of vehicle breakdown or crew problems. A combined transport team may have to be done with both services providing some support. If the nurse is not needed in the ambulance for the transport, another paramedic might be used to assist and serve as safety person, depending on hazard involved.

5. PATIENT ASSESSMENT AT HOSPITAL

5.1. IDENTIFY ASSESSMENT HOSPITALS AND APPROPRIATE CONTACTS

5.1.1. Identify gaps/needs as compared to the eleven domains

A site visit has been conducted to assess any gaps in the eleven domains.

The Assessment Hospital will then review the recommendations from the site visit team and determine what changes, if any need to be made in processes, policies or equipment.

5.1.2. Assessment Hospital in TSA-B – University Medical Center, Lubbock

University Medical Center (UMC) in Lubbock has been designated as an Assessment Hospital. This will be the only Assessment Hospital in the TSA-A and TSA-B regions, at this time. To coordinate a transport to UMC for assessment, contact the house supervisor at UMC and the Regional Preparedness Coordinator.

Assessment Hospitals have been designated by the Texas Department of State Health Service Epidemiology Division, having met all criteria as set out by the CDC. These facilities have shown the willingness and capabilities to house and care for a person of interest, until verification that the patient has a high consequence infectious disease, and make arrangements for transfer to a Treatment Hospital.

5.2. PPE CACHES – LOCATION(S) AND CONDITIONS OF STORAGE, INVENTORY, & PROCESS FOR REQUESTING

5.2.1. TSA-B Cache

TSA-B has limited quantities of additional PPE stored in the region. This equipment is available to supplement the recommended 96-hour cache that each facility should have on hand. See Figure 1 in Section 5.4.6.

5.2.2. Location

This cache is stored at the TSA-B warehouse site. The equipment is secured in rolling cages so that it can be loaded quickly on a trailer and moved to where needed.

5.2.3. Process for Requesting Cache

Since this cache is a scarce resource, requests must be made through your local EMC to the DDC. The DDC will then call the TSA-B Regional Preparedness Coordinator to request the equipment. This allows for a paper trail as well as a process for allocation if there is more than one PUI at a time.

5.3. Testing

5.3.1. Identify nearest laboratory response network (LRN) lab with testing capability

The Institute of Environmental and Human Health (TIEHH) operates a lab in Lubbock with the capability to do initial testing on select agents. TIEHH currently has the ability to do initial testing for Ebola.

5.3.2. Authorization to submit a specimen

Your local health department and DSHS must be coordinated with prior to submitting a specimen to the LRN lab.

5.3.3. Specimen packaging and transport plan

CDC and Department of Transportation (DOT) regulations must be followed in transporting specimens for testing. For more information on shipping specimens go to <u>http://www.cdc.gov/vhf/ebola/healthcare-us/laboratories/specimens.html</u>. Coordination will be done with the appropriate HSR to ensure secure and safe transport of specimens.

5.4. SUPPORT SYSTEMS

5.4.1. Public Information Officer (PIO)

Public information must be a coordinated effort for HCID incidents. It is highly recommended that a Joint Information System (JIC) be established and all information be sent from here. The JIC will contain representatives from all entities involved so that a coordinated position and information may be presented.

5.4.2. Disaster Behavioral Health

The mental well-being of responders, practitioners, and others involved directly with a HCID patient is important. If a need for behavioral health is needed, please request through the RMOC or Regional Preparedness Coordinator.

5.4.3. Liaison from Incident Command System (ICS) structure

Liaisons from the RMOC, or entities involved may be requested to be at emergency operation centers (EOC), hospital command center (HCC), the regional health and medical operations center (RHMOC) or the DDC. Every effort will be made to have this position filled if requested.

5.4.4. Waste management

Hospitals should have a waste management provider for their bio waste. Each facility should check to verify if their provider can handle HCID waste. If they cannot, the facility should have contact information for a provider that can handle this level of waste.

EMS providers that transport a HCID patient will be allowed to leave their waste at the receiving facility.

Waste should be handled and packaged as set out by the provider.

Waste at the scene, should be handled through the local EMC. Texas Commission on Environmental Quality (TCEQ) can be a resource to request for this type of waste.

5.4.5. Security

Law enforcement assistance should be requested at the scene and then at any facility receiving HCID patients. Each facility should pre-plan what level of security that they will be needing and request it through local processes.

5.4.6. IDRU

The IDRU is an element of the Texas Emergency Medical Task Force (EMTF) program. The IDRU is comprised of equipment and supply caches, personnel available to assist at Frontline hospitals and EMS agencies to provide transport. The IDRU has to be activated through the state medical operations center (SMOC). See Figure 1.

There are three (3) levels of equipment and supply caches. The first is a twenty-four-hour cache which is held within the EMTF region, there will be eight (8) of these caches across the state. The second cache is a seventy-two-hour cache. There will be four (4) of these across the state located at; Dallas, El Paso, Houston and San Antonio. Then there will be one (1) ten-day cache in the state and it will be located in San Antonio. Once the activation order is given, the closest of each type of cache will begin moving towards the requesting facility. The fourteen (14) days of supplies in the three caches was developed to allow enough lead time for suppliers to get orders to the facility. So, order still need to be placed for additional PPE through the normal vendors, but these caches supplement a facility's supplies. See Figure 2.

Planning Note: These caches should not be relied upon as a facility's primary source of PPE. Sufficient quantities should be available for 96 hours at least.



Figure 1. HCID Notification and Support Request



Figure 2. IDRU Cache Concept

6. POSITIVE CASE

6.1. GROUND TRANSPORTATION

6.1.1. Timing considerations (traffic, weather, etc.)

Ground transportation coordination should be coordinated through the RMOC and the transporting EMS agency. A specified route should be established taking weather and traffic into consideration. If time allows, the transfer should take place at a time of day when there is the lowest volume of traffic.

6.1.2. Security

Security during the transport of the patient will be coordinated with DSHS, transporting service and RMOC. If Department of Public Safety (DPS) assistance will be needed, submit request through the local EMC.

Contact will be maintained with the transporting units at all times, monitoring the location of the transporting units at the RMOC in coordination with the transporting agency.

6.2. AIR TRANSPORTATION

Air transportation will be arranged through DSHS for a patient who is located greater than 200 miles from a Treatment Hospital. If air transportation is authorized, it will be carried out by the Federal contactor. If possible, perform this transfer at night.

6.2.1. Identify airfield

The most appropriate airfield in close proximity of the patient's location that can handle the aircraft being used, will be selected in coordination with DSHS and the RMOC. Coordination with the selected airport is imperative. Include them in any conference calls dealing with movement of the patient.

6.2.2. Ground checklist

Will be provided by the federal agency securing the air transportation.

6.2.3. Security

Security during the transport of the patient will be coordinated with DSHS. The airfield will be secured during the time of the patient transfer.

7. MORTUARY SERVICES

7.1. IDENTIFY PROVIDER OF MORTUARY SERVICES

List of providers as provided by DSHS.

Miller Mortuary - Panhandle Area 202 Avenue Q, Lubbock, TX 79415 <u>806.763.9411</u> Benny or Matthew Miller

Global Mortuary Affairs, LLC - Entire State 424 S. Bryan Belt Line Rd Mesquite, TX 75149 <u>877.216.2708</u> David Patterson

Heritage Cremation - Cremation ONLY 101 E Park Blvd, Plano, TX 75074 <u>214.887.3555</u> Scott Smith

7.2. SUPPLIES

Each acute care facility in TSA-B has been supplied with a BioSeal system capable of handling a minimum of 25 bodies. There is additional BioSeal film in storage in the region and can be deployed as needed. Each facility also has a supply of heavy body bags on site.

7.3. HANDLING OF DECEASED

The handling of the deceased will be done in accordance with CDC guidelines in coordination with the mortuary provider.

TSA-B acute care facilities have BioSeal systems on site. This is a recognized system for containment of remains.

8. CONTACT LIST

8.1. HEALTH DEPARTMENTS (24-HOUR CONTACT NUMBER)

Texas Department of State Health Services Region 1 – 806-778-7391 Region 2/3 – 817-822-6786 Region 9/10 – 888-847-6892 Alt# - 915-834-7842

City of Lubbock Health Department - 806-535-9047

Plainview-Hale County Health Department -

South Plains Public Health District – Daytime – 432-758-4021 After Hours – 800-360-6510

8.2. TSA-B (BRAC)

– Regional Preparedness Coordinator
Jim Waters 806-535-2638 <u>spems@aol.com</u> – Executive Director

8.3. LRN LAB – LUBBOCK

806-885-0235

Appendix

A. EBOLA VIRUS DISEASE (EVD)

- 1. About EVD
 - a. Ebola, previously known as Ebola hemorrhagic fever, is a rare and deadly disease caused by infection with one of the Ebola virus species. Ebola can cause disease in humans and nonhuman primates (monkeys, gorillas, and chimpanzees).
 - b. Ebola is caused by infection with a virus of the family <u>Filoviridae</u>, genus Ebolavirus. There are five identified Ebola virus species, four of which are known to cause disease in humans: Ebola virus (Zaire ebolavirus); Sudan virus (Sudan ebolavirus); Taï Forest virus (Taï Forest ebolavirus, formerly Côte d'Ivoire ebolavirus); and Bundibugyo virus (Bundibugyo ebolavirus). The fifth, Reston virus (Reston ebolavirus), has caused disease in nonhuman primates, but not in humans.
 - **c.** People get Ebola through direct contact (through broken skin or mucous membranes in, for example, the eyes, nose, or mouth) with:
 - i. blood or body fluids (including but not limited to urine, saliva, sweat, feces, vomit, breast milk, and semen) of a person who is sick with or has died from Ebola,
 - ii. objects (like needles and syringes) that have been contaminated with body fluids from a person who is sick with Ebola or the body of a person who has died from Ebola,
 - iii. infected fruit bats or primates (apes and monkeys), and
 - iv. possibly from contact with semen from a man who has recovered from Ebola (for example, by having oral, vaginal, or anal sex)

2. Signs and Symptoms

- a. Symptoms of EVD include:
 - i. Fever
 - ii. Severe Headache
 - iii. Muscle Pain
 - iv. Weakness
 - v. Fatigue
 - vi. Diarrhea
 - vii. Vomiting
 - viii. Abdominal Pain
 - ix. Unexplained Hemorrhage
- b. Symptoms may appear anywhere from 2 to 21 days after exposure to EVD, but the average is 8 to 10days.
- c. Recovery from EVD depends on good supportive clinical care and the patient's immune response.

3. Key Points

- **a.** EVD can be confused with other more common infectious diseases such as malaria, typhoid fever, meningococcemia, and other bacterial infections.
- **b.** Gastrointestinal symptoms may develop after about 5 days to develop symptoms such as severe watery diarrhea, nausea, vomiting, and abdominal pain.
- c. Ebola virus enters the patient through mucous membranes, breaks in the skin, or parenterally. Healthcare personnel must prevent direct contact or splashes with blood and body fluids, contaminated equipment, and soiled environmental surfaces.
- **d.** Travelers with possible exposure to Ebola virus may need public health monitoring and movement controls depending on the risk of exposure and clinical presentation. Clinicians should contact local or state health departments for more information.
- 4. Triage patients presenting to healthcare facilities, clinics, freestanding EDs, physician's office, arrival at airport, caller for 9-1-1 assistance or calls to local and regional health departments with the most current version of the Algorithm for Evaluation of the Returned Traveler and for 911 Answering Points and First Responders as set out by CDC, which can be found at <u>http://www.cdc.gov/vhf/ebola/</u>.
- 5. PPE for EVD has been set out by the CDC. TSA-B will follow these guidelines as a minimum, and may elect to use a higher level during contact with EVD patients. The most current recommendations and guidelines can be found at <u>http://www.cdc.gov/vhf/ebola/</u>.
- 6. Along with PPE, the proper donning and doffing of the PPE is critical to safety of the healthcare worker and to prevent the spreading of the disease.

B. MIDDLE EAST RESPIRATORY SYNDROME (MERS)

People Who May Be at Increased Risk for MERS

Recent Travelers from the Arabian Peninsula

If you develop a fever* and symptoms of respiratory illness, such as cough or shortness of breath, within 14 days after traveling from countries in or near the Arabian Peninsula**, you should call ahead to a healthcare provider and mention your recent travel. While sick, stay home from work or school and delay future travel to reduce the possibility of spreading illness to others.

Close Contacts of an III Traveler from the Arabian Peninsula

If you have had close contact*** with someone within 14 days after they traveled from a country in or near the Arabian Peninsula**, and the traveler has/had fever* and symptoms of respiratory illness, such as cough or shortness of breath, you should monitor your health for 14 days, starting from the day you were last exposed to the ill person.

If you develop fever* and symptoms of respiratory illness, such as cough or shortness of breath, you should call ahead to a healthcare provider and mention your recent contact with the traveler. While sick, stay home from work or school and delay future travel to reduce the possibility of spreading illness to others.

Close Contacts of a Confirmed Case of MERS

If you have had close contact*** with someone who has a confirmed MERS-CoV infection, you should contact a healthcare provider for an evaluation. Your healthcare provider may request laboratory testing and outline additional recommendations, depending on the findings of your evaluation and whether you have symptoms. You most likely will be asked to monitor your health for 14 days, starting from the day you were last exposed to the ill person. Watch for these symptoms:

Fever*. Take your temperature twice a day.

Coughing

Shortness of breath

Other early symptoms to watch for are chills, body aches, sore throat, headache, diarrhea, nausea/vomiting, and runny nose.

If you develop symptoms, call ahead to your healthcare provider as soon as possible and tell him or her about your possible exposure to MERS-CoV so the office can take steps to keep other people from getting infected. Ask your healthcare provider to call the local or state health department.

Top of Page

Healthcare Personnel Not Using Recommended Infection-Control Precautions

Healthcare personnel should adhere to recommended infection control measures, including standard, contact, and airborne precautions, while managing symptomatic close contacts, patients under investigation, and patients who have probable or confirmed MERS-CoV infections. Recommended infection control precautions should also be utilized when collecting specimens.

Healthcare personnel who had close contact<u>***</u> with a confirmed case of MERS while the case was ill, if not using recommended infection control precautions (e.g. appropriate use of personal protective equipment), are at increased risk of developing MERS-CoV infection and should be evaluated and monitored by a healthcare professional with a higher index of suspicion. For more information, see Interim Infection Prevention and Control Recommendations for Hospitalized Patients with Middle East Respiratory Syndrome Coronavirus (MERS-CoV).

People with Exposure to Camels

MERS-CoV has been found in some camels, and some MERS patients have reported contact with camels. However, we do not know exactly how people become infected with MERS-CoV—many people with MERS have had close contact with a person sick with MERS.

The World Health Organization has posted a general precaution for anyone visiting farms, markets, barns, or other places where animals are present. Travelers should practice general hygiene measures, including regular handwashing before and after touching animals, and avoid contact with sick animals. Travelers should also avoid consumption of raw or undercooked animal products. For more information, see WHO's Frequently Asked Questions on MERS-CoV. (Should people avoid contact with camels or camel products? Is it safe to visit farms, markets, or camel fairs?)

The World Health Organization considers certain groups to be at high risk for severe MERS; these groups include people with diabetes, kidney failure, or chronic lung disease and people who have weakened immune systems. The World Health Organization recommends that these groups take additional precautions:

Avoid contact with camels

Do not drink raw camel milk or raw camel urine

Do not eat undercooked meat, particularly camel meat

For more information, see WHO's <u>MERS-CoV Summary and Literature Update</u>, June 11, 2014 [8 pages]. (See page 8 for recommendations.)

*Fever may not be present in some patients, such as those who are very young, elderly, immunosuppressed, or taking certain medications. Clinical judgement should be used to guide testing of patients in such situations.

**Countries considered in the Arabian Peninsula and neighboring include: Bahrain; Iraq; Iran; Israel, the West Bank, and Gaza; Jordan; Kuwait; Lebanon; Oman; Qatar; Saudi Arabia; Syria; the United Arab Emirates (UAE); and Yemen.

***Close contact is defined as a) being within approximately 6 feet (2 meters) or within the room or care area for a prolonged period of time (e.g., healthcare personnel, household members) while not wearing recommended personal protective equipment (i.e., gowns, gloves, respirator, eye protection—see <u>Infection Prevention and Control Recommendations</u>); or b) having direct contact with infectious secretions (e.g., being coughed on) while not wearing recommended personal protective equipment (i.e., gowns, gloves, respirator, eye protection—see <u>Infection Prevention and Control Recommendations</u>); or b) having direct contact with infectious secretions (e.g., being coughed on) while not wearing recommended personal protective equipment (i.e., gowns, gloves, respirator, eye protection—see <u>Infection Prevention and Control Recommendations</u>). Data to inform the definition of close contact are limited. At this time, brief interactions, such as walking by a person, are considered low risk and do not constitute close contact.