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To: Local Health Departments, Health Care Providers and Hospitals

From: Shereen Semple, Epidemiologist

> Infectious and Zoonotic Disease Program New Jersey Department of Health (NJDOH)

Date: August 1, 2014

Governor

Subject: Infection Prevention and Control Recommendations for Ebola Hemorrhagic

Fever in U.S. Hospitals // From the Centers for Disease Control and Prevention

(CDC)

CDC has released Infection Prevention and Control Recommendations for Hospitalized Patients with Known or Suspected Ebola Hemorrhagic Fever in U.S. Hospitals. Standard, contact, and droplet precautions are recommended for any patients with known or suspected Ebola hemorrhagic fever. Though these recommendations focus on the hospital setting, the recommendations for personal protective equipment (PPE) and environmental infection control measures are applicable to any healthcare setting. This guidance is not intended to apply to persons outside of healthcare settings. As additional information becomes available, these recommendations will be re-evaluated and updated as needed.

View the entire guidance on CDC's website: http://www.cdc.gov/vhf/ebola/hcp/infectionprevention-and-control-recommendations.html. For more information on the ongoing outbreak of Ebola hemorrhagic fever: http://www.cdc.gov/vhf/ebola/index.html.

As a reminder, the NJDOH requests that all health care providers consider Ebola Virus Disease (EVD) in the differential diagnosis of febrile illness in persons with recent travel (within 21 days) to the affected countries in West Africa, currently including Guinea, Liberia, Sierra Leone and Nigeria. All persons with compatible symptoms and travel history should be isolated until diagnostic testing is completed. At this time, there have been NO reports of EVD in the U.S.

Reporting Reminder for Health Care Providers:

Confirmed or suspect cases of any viral hemorrhagic fever, including EVD, should be reported immediately to the local health department where the patient resides. If patient residence is unknown, report to your own local health department. Local health departments are available 24/7. Contact information for local health departments during business hours can be found at: www.localhealth.nj.gov. Contact information for local health departments after business hours or on weekends can be found at:

http://nj.gov/health/lh/documents/lhd after hours emerg contact numbers.pdf.

If local health department personnel are unavailable, healthcare providers should report the case to the NJDOH, Communicable Disease Service (CDS) at 609-826-5964, Monday through Friday 8:00 AM - 5:00 PM. On weekends, evenings and holidays, the CDS can be reached at (609) 392-2020.

Reporting Reminder for Local Health Departments:

Local health departments that receive notification of a confirmed or suspect case of any viral hemorrhagic fever, including EVD, should immediately contact the NJDOH CDS at 609-826-5964, Monday through Friday 8:00 AM - 5:00 PM. On weekends, evenings and holidays, the CDS can be reached at (609) 392-2020.

Additional information on viral hemorrhagic fevers can be found on the NJDOH website at http://www.state.nj.us/health/cd/vhf/index.shtml. Non-urgent questions about viral hemorrhagic fevers and/or EVD can be sent to Shereen Semple at the NJDOH Infectious and Zoonotic Disease Program at shereen.semple@doh.state.nj.us. Please note, this email should NOT be used to report confirmed or suspect cases of EVD or any other immediately reportable condition.

Update from the Centers for Disease Control and Prevention (CDC)

Infection Prevention and Control Recommendations for Hospitalized Patients with Known or Suspected Ebola Hemorrhagic Fever in U.S. Hospitals

Standard, contact, and droplet precautions are recommended for management of hospitalized patients with known or suspected Ebola hemorrhagic fever (Ebola HF), also referred to as Ebola Viral Disease (EVD) (See Table below). Note that this guidance outlines only those measures that are specific for Ebola HF; additional infection control measures might be warranted if an Ebola HF patient has other conditions or illnesses for which other measures are indicated (e.g., tuberculosis, multi-drug resistant organisms, etc.).

Though these recommendations focus on the hospital setting, the recommendations for personal protective equipment (PPE) and environmental infection control measures are applicable to any healthcare setting. In this guidance healthcare personnel (HCP) refers all persons, paid and unpaid, working in healthcare settings who have the potential for exposure to patients and/or to infectious materials, including body substances, contaminated medical supplies and equipment, contaminated environmental surfaces, or contaminated air. HCP include, but are not limited to, physicians, nurses, nursing assistants, therapists, technicians, emergency medical service personnel, dental personnel, pharmacists, laboratory personnel, autopsy personnel, students and trainees, contractual personnel, home healthcare personnel, and persons not directly involved in patient care (e.g., clerical, dietary, house-keeping, laundry, security, maintenance, billing, chaplains, and volunteers) but potentially exposed to infectious agents that can be transmitted to and from HCP and patients. **This guidance is not intended to apply to persons outside of healthcare settings**.

As information becomes available, these recommendations will be re-evaluated and updated as needed. These recommendations are based upon available information (as of July 30, 2014) and the following considerations:

- High rate of morbidity and mortality among infected patients
- Risk of human-to-human transmission
- Lack of FDA-approved vaccine and therapeutics

For full details of standard, contact, and droplet precautions see <u>2007 Guideline for Isolation Precautions</u>: Preventing Transmission of Infectious Agents in Healthcare Setting found at http://www.cdc.gov/vhf/ebola/hcp/infection-prevention-and-control-recommendations.html.

For information on symptoms of Ebola Hemorrhagic Fever infection and modes of transmission, see the <u>CDC Ebola Hemorrhagic Fever website</u> at http://www.cdc.gov/vhf/ebola/.

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in U.S. Hospitals

Component	Recommendation	Comments
Patient Placement	 Single patient room (containing a private bathroom) with the door closed Facilities should maintain a log of all persons entering the patient's room 	Consider posting personnel at the patient's door to ensure appropriate and consistent use of PPE by all persons entering the patient room
Personal Protective Equipment (PPE)	 All persons entering the patient room should wear at least: Gloves Gown (fluid resistant or impermeable) Eye protection (goggles or face shield) Facemask Additional PPE might be required in certain situations (e.g., copious amounts of blood, other body fluids, vomit, or feces present in the environment), including but not limited to: Double gloving Disposable shoe covers Leg coverings 	 Recommended PPE should be worn by HCP upon entry into patient rooms or care areas. Upon exit from the patient room or care area, PPE should be carefully removed without
Patient Care Equipment	 Dedicated medical equipment (preferably disposable, when possible) should be used for the provision of patient care All non-dedicated, non-disposable medical equipment used for patient care should be cleaned and disinfected according to manufacturer's 	

Component	Recommendation	Comments
	instructions and hospital policies	
Patient Care Considerations	 Limit the use of needles and other sharps as much as possible Phlebotomy, procedures, and laboratory testing should be limited to the minimum necessary for essential diagnostic evaluation and medical care All needles and sharps should be handled with extreme care and disposed in puncture-proof, sealed containers 	
Aerosol Generating Procedures (AGPs)	 Avoid AGPs for Ebola HF patients. If performing AGPs, use a combination of measures to reduce exposures from aerosol-generating procedures when performed on Ebola HF patients. Visitors should not be present during aerosol-generating procedures. Limiting the number of HCP present during the procedure to only those essential for patient-care and support. Conduct the procedures in a private room and ideally in an Airborne Infection Isolation Room (AIIR) when feasible. Room doors should be kept closed during the procedure except when entering or leaving the room, and entry and exit should be minimized during and shortly after the procedure. HCP should wear gloves, a gown, disposable shoe covers, and either a face shield that 	 Although there are limited data available to definitively define a list of AGPs, procedures that are usually included are Bilevel Positive Airway Pressure (BiPAP), bronchoscopy, sputum induction, intubation and extubation, and open suctioning of airways. Because of the potential risk to individuals reprocessing reusable respirators, disposable filtering face piece respirators are preferred.

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	fully covers the front and sides of the face or goggles, and respiratory protection that is at least as protective as a NIOSH certified fit-tested N95 filtering facepiece respirator or higher (e.g., powered air purifying respiratory or elastomeric respirator) during aerosol generating procedures.	
	Conduct environmental surface cleaning following procedures (see section below on environmental infection control).	
	If re-usable equipment or PPE (e.g. Powered air purifying respirator, elastomeric respirator, etc.) are used, they should be cleaned and disinfected according to manufacturer instructions and hospital policies.	
	Collection and handling of soiled re-usable respirators must be done by trained individuals using PPE as described above for routine patient care	
Hand Hygiene	 HCP should perform hand hygiene frequently, including before and after all patient contact, contact with potentially infectious material, and before putting on and upon removal of PPE, including gloves. Healthcare facilities should ensure that supplies for performing hand hygiene are available. 	 Hand hygiene in healthcare settings can be performed by washing with soap and water or using alcohol-based hand rubs. If hands are visibly soiled, use soap and water, not alcohol- based hand rubs.
Environmental Infection Control	Diligent environmental cleaning and disinfection and safe handling of potentially contaminated materials is paramount, as blood, sweat, emesis, feces and other body secretions represent potentially	 Use EPA-registered hospital disinfectants to disinfect hard non-porous surfaces. Follow label instructions for use Searchable EPA website of registered products

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	 infectious materials HCP performing environmental cleaning and disinfection should wear recommended PPE (described above) and consider use of additional barriers (shoe and leg coverings, etc.) if needed. Face protection (face shield or facemask with goggles) should be worn when performing tasks such as liquid waste disposal that can generate splashes. Follow standard procedures, per hospital policy and manufacturers' instructions, for cleaning and/or disinfection of: Environmental surfaces and equipment Textiles and laundry 	at http://iaspub.epa.gov/apex/pesticides/f?p=PP LS:1
	o Food utensils and dishware	
Safe Injection practices	Facilities should follow safe injection practices as specified under Standard Precautions.	 Any injection equipment or parenteral medication container that enters the patient treatment area should be dedicated to that patient and disposed of at the point of use.
Duration of Infection Control Precautions	Duration of precautions should be determined on a case-by- case basis, in conjunction with local, state, and federal health authorities.	• Factors that should be considered include, but are not limited to: presence of symptoms related to Ebola HF, date symptoms resolved, other conditions that would require specific precautions (e.g., tuberculosis, <i>Clostridium difficile</i>) and available laboratory information
Monitoring and Management of Potentially Exposed Personnel	 Facilities should develop policies for monitoring and management of potentially exposed HCP Facilities should develop sick leave policies for HCP that are non-punitive, flexible and 	

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	consistent with public health guidance	
	o Ensure that all HCP, including staff who are not directly employed by the healthcare facility but provide essential daily services, are aware of the sick leave policies.	
	 Persons with percutaneous or mucocutaneous exposures to blood, body fluids, secretions, or excretions from a patient with suspected Ebola HF should 	
	o Stop working and immediately wash the affected skin surfaces with soap and water. Mucous membranes (e.g., conjunctiva) should be irrigated with copious amounts of water or eyewash solution	
	o Immediately contact occupational health/supervisor for assessment and access to postexposure management services for all appropriate pathogens (e.g., Human Immunodeficiency Virus, Hepatitis C, etc.)	
	HCP who develop sudden onset of fever, intense weakness or muscle pains, vomiting, diarrhea, or any signs of hemorrhage after an unprotected exposure (i.e. not wearing recommended PPE at the time of patient contact or through direct contact to blood or body fluids) to a patient with Ebola HF should	
	o Not report to work or should immediately stop	

Component	Recommendation	Comments
	working	
	o Notify their supervisor	
	o Seek prompt medical evaluation and testing	
	o Notify local and state health departments	
	o Comply with work exclusion until they are deemed no longer infectious to others	
	For asymptomatic HCP who had an unprotected exposure (i.e. not wearing recommended PPE at the time of patient contact or through direct contact to blood or body fluids) to a patient with Ebola HF	
	o Should receive medical evaluation and follow-up care including fever monitoring twice daily for 21 days after the last known exposure.	
	o Hospitals should consider policies ensuring twice daily contact with exposed personnel to discuss potential symptoms and document fever checks	
	o May continue to work while receiving twice daily fever checks, based upon hospital policy and discussion with local, state, and federal public health authorities.	
Monitoring, Management, and Training of Visitors	Avoid entry of visitors into the patient's room o Exceptions may be	 Visitors who have been in contact with the Ebola HF patient before and during hospitalization are a possible source of EHF for other patients, visitors, and staff.

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	considered on a case by case basis for those who are essential for the patient's wellbeing.	
	 Establish procedures for monitoring managing and training visitors. 	
	Visits should be scheduled and controlled to allow for:	
	o Screening for Ebola HF (e.g., fever and other symptoms) before entering or upon arrival to the hospital	
	o Evaluating risk to the health of the visitor and ability to comply with precautions	
	o providing instruction, before entry into the patient care area on hand hygiene, limiting surfaces touched, and use of PPE according to the current facility policy while in the patient's room	
	o Visitor movement within the facility should be restricted to the patient care area and an immediately adjacent waiting area.	