

NYC REMAC				
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	Updated Information	for EMS	Personnel	
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As you should be aware, the first case of Ebola Virus Disease (Ebola) diagnosed in the United States was reported to CDC by Dallas County Health and Human Services on September 28, 2014.

As an addendum to the previous NYC REMAC Advisory (2014-06), information regarding the identification of potentially infected patients and methods to prevent contamination, including donning and doffing of PPE, are attached.

Refer to previous NYC REMAC Advisory 2014-06: Ebola hemorrhagic fever (Ebola HF) – General Information for EMS Personnel, for more information.

Attachments:

- Advisory CDC Health Alert Network, October 2, 2014, 20:00 ET (8:00 PM ET), CDCHAN-00371
- CDC Detailed Emergency Medical Services (EMS) Checklist for Ebola Preparedness

BOTH THESE ATTACHMENTS CONTAIN LINKS TO EMS RELATED EBOLA INFORMATION. PLEASE READ AND SHARE WITH YOUR EMS PROVIDERS

Current and Updated Protocols can be accessed at the Regional EMS Council website: www.nycremsco.org.

Owners/operators of Ambulance and ALS First Response Services providing prehospital medical treatment within the five boroughs of the City of New York are responsible to provide copies of the NYC REMAC Prehospital Treatment Protocols to their personnel, and to ensure that Service Medical Directors and EMS personnel are informed of all changes/updates to the NYC REMAC Prehospital Treatment Protocols.

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This is an official CDC HEALTH ADVISORY

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Evaluating Patients for Possible Ebola Virus Disease: Recommendations for Healthcare Personnel and Health Officials

Summary: The first case of Ebola Virus Disease (Ebola) diagnosed in the United States was reported to CDC by Dallas County Health and Human Services on September 28, 2014, and laboratory-confirmed by CDC and the Texas Laboratory Response Network (LRN) laboratory on September 30. The patient departed Monrovia, Liberia, on September 19, and arrived in Dallas, Texas, on September 20. The patient was asymptomatic during travel and upon his arrival in the United States; he fell ill on September 24 and sought medical care at Texas Health Presbyterian Hospital of Dallas on September 26. He was treated and released. On September 28, he returned to the same hospital, and was admitted for treatment.

The purpose of this HAN Advisory is to remind healthcare personnel and health officials to:

- (1) increase their vigilance in inquiring about a history of travel to West Africa in the 21 days before illness onset for any patient presenting with fever or other symptoms consistent with Ebola;
- (2) isolate patients who report a travel history to an Ebola-affected country (currently Liberia, Sierra Leone, and Guinea) <u>and</u> who are exhibiting Ebola symptoms in a private room with a private bathroom and implement standard, contact, and droplet precautions (gowns, facemask, eye protection, and gloves); and
- (3) immediately notify the local/state health department.

Please disseminate this information to infectious disease specialists, intensive care physicians, primary care physicians, and infection control specialists, as well as to emergency departments, urgent care centers, and microbiology laboratories.

Background

The first known case of Ebola with illness onset and laboratory confirmation in the United States occurred in Dallas, Texas, on September 2014, in a traveler from Liberia. The West African countries of Liberia, Sierra Leone, and Guinea are experiencing the largest Ebola epidemic in history. From March 24, 2014, through September 23, 2014, there have been 6,574 total cases (3,626 were laboratory-confirmed) and 3,091 total deaths reported in Africa. Ebola is a rare and deadly disease caused by infection with one of four viruses (Ebolavirus genus) that cause disease in humans. Ebola infection is associated with fever of greater than 38.6°C or 101.5°F, and additional symptoms such as severe headache, muscle pain, vomiting, diarrhea, abdominal pain, or unexplained hemorrhage. Ebola is spread through direct contact (through broken skin or mucous membranes) with blood or body fluids (including but not limited to urine, saliva, feces, vomit, sweat, breast milk, and semen) of a person who is sick with Ebola or contact with objects (such as needles and syringes) that have been contaminated with these fluids. Ebola is not spread through the air or water. The main source for spread is human-to-human transmission. Avoiding contact with infected persons (as well as potentially infected corpses) and their blood and body fluids is of paramount importance. Persons are not contagious before they are symptomatic. The incubation period

(the time from exposure until onset of symptoms) is typically 8-10 days, but can range from 2-21 days. Additional information is available at http://www.cdc.gov/vhf/ebola/index.html.

Recommendations

Early recognition is critical to controlling the spread of Ebola virus. Consequently, healthcare personnel should elicit the patient's travel history and consider the possibility of Ebola in patients who present with fever, myalgia, severe headache, abdominal pain, vomiting, diarrhea, or unexplained bleeding or bruising. Should the patient report a history of recent travel to one of the affected West African countries (Liberia, Sierra Leone, and Guinea) and exhibit such symptoms, immediate action should be taken. The Ebola algorithm for the evaluation of a returned traveler and the checklist for evaluation of a patient being evaluated for Ebola are available at http://www.cdc.gov/vhf/ebola/pdf/checklist-patients-evaluated-us-evd.pdf.

Patients in whom a diagnosis of Ebola is being considered should be isolated in a single room (with a private bathroom), and healthcare personnel should follow standard, contact, and droplet precautions, including the use of appropriate personal protective equipment (PPE). Infection control personnel and the local health department should be immediately contacted for consultation.

The following guidance documents provide additional information about clinical presentation and clinical course of Ebola virus disease, infection control, and patient management:

- Guidelines for clinicians in U.S. healthcare settings are available at http://www.cdc.gov/vhf/ebola/hcp/clinician-information-us-healthcare-settings.html.
- Guidelines for infection prevention control for hospitalized patients with known or suspected Ebola in U.S. hospitals are available at http://www.cdc.gov/vhf/ebola/hcp/infection-prevention-and-control-recommendations.html
- Guidelines for safe management of patients with Ebola in U.S. hospitals are at http://www.cdc.gov/vhf/ebola/hcp/patient-management-us-hospitals.html.

The case definitions for persons under investigation (PUI) for Ebola, probable cases, and confirmed cases as well as classification of exposure risk levels are at http://www.cdc.gov/vhf/ebola/hcp/case-definition.html.

Persons at highest risk of developing infection are:

- those who have had direct contact with the blood and body fluids of an individual diagnosed with Ebola – this includes any person who provided care for an Ebola patient, such as a healthcare provider or family member not adhering to recommended infection control precautions (i.e., not wearing recommended PPE
- those who have had close physical contact with an individual diagnosed with Ebola
- those who lived with or visited the Ebola-diagnosed patient while he or she was ill.

Persons who have been exposed, but who are asymptomatic, should be instructed to monitor their health for the development of fever or symptoms for 21 days after the last exposure. Guidelines for monitoring and movement of persons who have been exposed to Ebola are available at http://www.cdc.gov/vhf/ebola/hcp/monitoring-and-movement-of-persons-with-exposure.html.

Diagnostic tests are available for detection of Ebola at LRN laboratories as well as CDC. Consultation with CDC is required before shipping specimens to CDC. Information about diagnostic testing for Ebola can be found at http://www.cdc.gov/vhf/ebola/hcp/interim-guidance-specimen-collection-submission-patients-suspected-infection-ebola.html.

Healthcare personnel in the United States should immediately contact their state or local health department regarding any person being evaluated for Ebola if the medical evaluation suggests that diagnostic testing may be indicated. If there is a high index of suspicion, U.S. health departments should immediately report any probable cases or persons under investigation (PUI)

(<u>http://www.cdc.gov/vhf/ebola/hcp/case-definition.html</u>) to CDC's Emergency Operations Center at 770-488-7100.

The Centers for Disease Control and Prevention (CDC) protects people's health and safety by preventing and controlling diseases and injuries; enhances health decisions by providing credible information on critical health issues; and promotes healthy living through strong partnerships with local, national, and international organizations.

Categories of Health Alert Network messages:

Health Alert Requires immediate action or attention; highest level of importance

Health Advisory Health UpdateMay not require immediate action; provides important information for a specific incident or situation

Unlikely to require immediate action; provides updated information regarding an incident or situation **HAN Info Service**Does not require immediate action; provides general public health information

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##This message was distributed to state and local health officers, state and local epidemiologists, state and local laboratory directors, public information officers, HAN coordinators, and clinician organizations##





Detailed Emergency Medical Services (EMS) Checklist for Ebola Preparedness

The U.S. Department of Health and Human Services (DHHS) Centers for Disease Control and Prevention (CDC) and Office of the Assistant Secretary for Preparedness and Response (ASPR), in addition to other federal, state, and local partners, aim to increase understanding of Ebola and encourage U.S.-based EMS agencies and systems to prepare for managing patients with Ebola and other infectious diseases. Every EMS agency and system, including those that provide non-emergency and/or inter-facility transport, should ensure that their personnel can detect a person under investigation (PUI) for Ebola, protect themselves so they can safely care for the patient, and respond in a coordinated fashion. Many of the signs and symptoms of Ebola are non-specific and similar to those of other common infectious diseases such as malaria, which is commonly seen in West Africa. Transmission of Ebola can be prevented by using appropriate infection control measures.

This checklist is intended to enhance collective preparedness and response by highlighting key areas for EMS personnel to review in preparation for encountering and providing medical care to a person with Ebola. The checklist provides practical and specific suggestions to ensure the agency is able to help its personnel *detect* possible Ebola cases, *protect* those personnel, and *respond* appropriately.

Now is the time to prepare, as it is possible that individuals infected with Ebola virus in West Africa may travel to the U.S., develop signs or symptoms of Ebola, and seek medical care from EMS personnel.

EMS agencies, in conjunction with their medical directors, should review infection control policies and procedures and incorporate plans for administrative, environmental, and communication measures.

The checklist format is not intended to set forth mandatory requirements or establish national standards. It is a list of activities that can help each agency prepare. Each agency is different and should adapt this document to meet its specific needs. In this checklist, EMS personnel refers to all persons, paid and volunteer who provide pre-hospital emergency medical services and have the potential for direct contact exposure (through broken skin or mucous membranes) with an Ebola patient's blood or body fluids, contaminated medical supplies and equipment, or contaminated environmental surfaces.

This detailed checklist for EMS is part of a suite of HHS checklists. This guidance is only for EMS agencies and systems; the CDC's <u>Interim guidance for EMS</u> includes information for individual providers and for 9-1-1 Public Safety Answering Points.

CDC is available 24/7 for consultation by calling the CDC Emergency Operations Center (EOC) at 770-488-7100 or via email at eocreport@cdc.gov.

C=Completed; IP=In Progress; NS=Not Started

PREPARE TO DETECT		IP	NS
Train all EMS personnel on how to identify signs and symptoms of Ebola infections			
and to avoid risk of exposure.			
Review CDC Ebola case definition for guidance on who meets the criteria for a			
PUI for Ebola.			
Ensure EMS personnel are aware of current guidance: <u>Interim Guidance</u>			
Emergency Medical Services Systems.			
Review patient assessment and management procedures and ensure they include			
screening criteria (e.g. relevant questions: travel within 21 days from affected West			
African country, exposure to case) for use by EMS personnel to ask individuals			
during the triage process for patients presenting with compatible symptoms.			
Post screening criteria in conspicuous locations in EMS units, at EMS stations,			
and in other locations frequented by EMS personnel (see suggested screening			
criteria in Attachment A).			
Designate points of contact within their EMS organization/system responsible for			
communicating with state and local public health officials. Remember: Ebola must			
be reported to local, state, and federal public health authorities.			
Ensure that all personnel are familiar with the protocols and procedures for notifying			
the designated points of contact regarding a PUI for Ebola.			
Conduct spot checks and reviews for staff to ensure they are incorporating Ebola			
screening into their patient assessment and management procedures and are able			
to initiate notification, isolation, and PPE procedures.			

PREPARE TO PROTECT		IP	NS
Consider travelers with fever, fatigue, vomiting and/or diarrhea and returning from			
affected West African countries as potential cases, and obtain additional history.			
Conduct a detailed inventory of available supplies of PPE suitable for standard,			
contact, and droplet precautions. Ensure an adequate supply, for EMS personnel,			
of:			
 Fluid resistant or impermeable gowns, 			
• Gloves,			
 Shoe covers, boots, and booties, and 			
 Appropriate combination of the following: 			
 Eye protection (face shield or goggles), 			
 Facemasks (goggles or face shield must be worn with facemasks), 			
 N95 respirators (for use during aerosol-generating procedures) 			
 Other infection control supplies (e.g. hand hygiene supplies). 			
Ensure that PPE meets nationally-recognized standards as defined by the			
Occupational Safety & Health Administration (OSHA), National Institute for			
Occupational Safety and Health (NIOSH), Food and Drug Administration (FDA), or			
Interagency Board for Equipment Standardization and Interoperability.			
Review plans, protocols, and PPE purchasing with community/coalition partners			
that promote interoperability and inter-agency/facility coordination.			
Ensure Ebola PPE supplies are maintained in all patient care areas (transport unit			
and in bags/kits).			
Verify all EMS personnel:			
Meet all training requirements in PPE and infection control,			

Are able to use PPE correctly,	
Have proper medical clearance,	
Have been properly fit-tested on their respirator for use in aerosol-	
generating procedures or more broadly as desired, and	
 Are trained on <u>management and exposure precautions</u> for PUI for Ebola. 	
Encourage EMS personnel to use a "buddy system" when <u>putting on and removing</u> <u>PPE</u> .	
Review CDC guidelines for isolation precautions and share with EMS personnel.	
Frequently spot-check (for example through quality assurance/quality improvement)	
to be sure standard, contact and droplet infection control and isolation guidelines are	
being followed, including safely putting on and removing PPE.	
Ensure procedures are in place to require that all EMS personnel accompanying a	
patient in a transport unit are wearing (at minimum): gloves, gown (fluid resistant or	
impermeable), eye protection (goggles or face shield), and a facemask.	
Ensure procedures are in place to limit EMS personnel exposure to PUI for Ebola	
during treatment and transport.	
Review and update, as necessary, EMS infection control protocols/procedures.	
Review your policies and procedures for screening, isolation, medical consultation,	
and monitoring and management of EMS personnel who may have Ebola exposure	
and/or illness.	
Review and update, as necessary, all EMS agency protocols and procedures for	
isolation of PUI for Ebola .	
Review the agency's infection control procedures to ensure adequate	
implementation for preventing the spread of Ebola.	
Review protocols for sharps injuries and educate EMS personnel about safe sharps practices to prevent sharps injuries.	
Emphasize the importance of proper hand hygiene to EMS personnel.	
Develop contingency plans for staffing, ancillary services, vendors, and other	
business continuity plans.	
Review plans for special handling of linens, supplies, and equipment from PUI for	
Ebola.	
Review <u>environmental cleaning procedures</u> and provide education/refresher	
training to appropriate personnel.	
Provide education and refresher training to EMS personnel on healthcare	
personnel sick leave policies.	
Review policies and procedures for screening and work restrictions for exposed or	
ill EMS personnel, and develop sick leave policies for EMS personnel that are non-	
punitive, flexible, and consistent with public health guidance.	
Ensure that EMS personnel have ready access, including via telephone, to	
medical consultation.	

PREPARE TO RESPOND		IP	NS
Review, implement, and frequently exercise the following elements with EMS			
personnel:			
 Appropriate infectious disease procedures and protocols, including putting 			
on and taking off PPE.			

Appropriate triage techniques and additional Ebola screening questions, Disease identification, testing, specimen collection and transport procedures. Isolation, quarantine and security procedures, Communications and reporting procedures, and Cleaning and disinfection procedures. Review plans and protocols, and exercise/test the ability to appropriately share relevant health data between key stakeholders, coalition partners, public health, emergency management, etc. Review, develop, and implement plans for: adequate respiratory support, safe administration of medication, and sharps procedures; and reinforce proper biohazard containment and disposal precautions. Ensure that EMS agency leaders are familiar with their responsibilities during a public health emergency. Consider identifying a Communications/Public Information Officer who: Develops appropriate literature and signage for posting (topics may include definitions of low-risk, high-risk and explanatory literature for patient, family members and contacts), • Coordinates with public health on targeted risk communication messages for use in the event of a PUI for Ebola. Requests appropriate Ebola literature for dissemination to EMS personnel. patients, and contacts, Prepares written and verbal messages, ahead of time, that have been approved, vetted, rehearsed and exercised, and Works with internal department heads and clinicians to prepare and vet internal communications to keep EMS personnel informed. Plan for regular situational briefs for decision-makers, including: PUI for Ebola who have been identified and reported to public health authorities. • Isolation, guarantine and exposure reports, Supplies and logistical challenges, · Personnel status, and Policy decisions on contingency plans and staffing. Maintain situational awareness of reported Ebola case locations, travel restrictions. and public health advisories, and update patient assessment and management guidelines accordingly. Incorporate Ebola information into educational activities (e.g. initial/refresher training, drills, and exercises). Implement, as needed, a multijurisdictional, multidisciplinary exchange of public health and medical-related information and situational awareness between EMS; the health care system; local, state, federal, tribal, and territorial levels of government; and the private sector.

Quick Resources List

The CDC has produced several resources and references to help agencies prepare for Ebola, and more resources are in development. Information and guidance posted on these resources may change as experts learn more about Ebola. Frequently monitor the CDC's Ebola Homepage, and review CDC's Ebola response guide checklists for:

- Clinician and healthcare workers,
- Patient Management for US Hospitals, and

Healthcare facilities.

Stay informed! Subscribe to the following sources to receive updates about Ebola:

- CDC Health Alert Network (HAN),
- CDC Clinician Outreach and Communication Activity (COCA),
- CDC National Institute for Occupational Safety and Health, and
- U.S. Department of Labor's Occupational Safety & Health Administration (OSHA)
 Newsletter.

Below are a few of the resources most relevant to healthcare preparedness:

- Interim Guidance for Emergency Medical Services Systems and 9-1-1 PSAPs.
- Ebola Virus Disease Information for Clinicians in U.S. Healthcare Settings,
- <u>Case Definition for Ebola Virus Disease.</u> This case definition should be used for screening patients and should be implemented in all healthcare facilities.
- Safe Management of Patients with Ebola Virus Disease in US Hospitals,
- <u>Infection Prevention and Control Recommendations for Hospitalized Patients with Known or Suspected Ebola Hemorrhagic Fever in U.S. Hospitals.</u> This document provides a summary of the proper Personal Protective Equipment (PPE).
- Interim Guidance for Specimen Collection, Transport, Testing, and Submission for Patients with Suspected Infection with Ebola Virus Disease.
- Sequence for Removing Personal Protective Equipment (PPE)
- <u>National Guidance for Healthcare System Preparedness' Capabilities</u>, with particular emphases on Capability #6 (Information Sharing) and Capability #14 (Responder Safety and Health)

Check CDC's Ebola Hemorrhagic Fever website regularly for the most current information. State and local health departments with questions should contact the CDC Emergency Operations Center (770-488-7100 or eocreport@cdc.gov).





Attachment A Ebola Virus Disease (EVD) Awareness for EMS

EMS patient assessment criteria for isolation/hospital notification are likely to be:

1. Fever, headache, joint and muscle aches, weakness, fatigue, diarrhea, vomiting, stomach pain and lack of appetite, and in some cases bleeding.

AND

2. Travel to West Africa (Guinea, Liberia, Sierra Leone, Senegal, Nigeria or other countries where Ebola transmission has been reported by WHO) within 21 days (3 weeks) of symptom onset.

<u>If both criteria are met,</u> then the patient should be isolated and STANDARD, CONTACT, and DROPLET precautions followed during further assessment, treatment, and transport.

IMMEDIATELY Report Suspected Ebola Case(s) to Receiving Facility.

If patient is not transported (refusal, pronouncement, etc.):

- 1. Inform Local and State Public Health Authorities: (Name), (Email), (Phone)
- 2. Inform the U.S. Centers for Disease Control and Prevention (CDC), available 24/7, at 770-488-7100, or via the CDC Emergency Operations Center (EOC) at eocreport@cdc.gov.

Sources: http://www.bt.cdc.gov/vhf/ebola/hcp/case-definition.html, http://www.bt.cdc.gov/vhf/ebola/hcp/infection-prevention-and-control-recommendations.html.