

Yolo County Department of Health Services

Kristin Weivoda EMS Administrator

Jill Cook, MS, RN, PHN Department Director

David Barnes, MD Medical Director



- DATE:October 6, 2014TO:All Prehospital Personnel and Providers
Base Hospital Personnel
Emergency Department Physicians and Nurse LiaisonsFROM:David Barnes, M.D., EMS Medical Director
Kristin Weivoda, EMS Administrator
- SUBJECT: Ebola and Emerging Infectious Disease

MEMORANDUM

The purpose of this memorandum is to provide guidance for handling inquiries and responding to patients with suspected Ebola symptoms, and for safety of prehospital care personnel. It is the responsibility of all transport and non-transport providers to ensure that their personnel receive this information.

Risk of contact with an Ebola patient in Yolo County is very low. Nonetheless, it is important for prehospital care personnel and providers to take reasonable steps to be prepared to protect themselves and our community from emerging infectious diseases.

The Centers for Disease Control and Prevention and the California Department of Public Health have released guidance for management of patients with the possibility of infection with the Ebola virus – see web links below.

Prehospital personnel should always use universal precautions.

Symptoms of Ebola are non-specific (influenza-like) and can easily be mistaken for another benign illness. Notify the receiving hospital prior to arrival if a patient has a history of recent travel to an affected area in West Africa (See map below). Ebola has an approximate 21-day incubation period; symptom onset may be delayed. Cooperate with the receiving hospital to ensure proper universal precautions are utilized when transferring patient care. Guidance and Recommendations:

- Ebola is not airborne. The disease is spread through contact with an infected patient's blood or body fluids (e.g. vomitus, blood, urine, feces).
- Prehospital personnel should review the proper techniques for donning and doffing personal protective equipment (PPE). With a suspected case of Ebola, personnel should don, in order: gloves, gowns (fluid resistant or impermeable), eye protection (goggles or face shield that covers the front and sides of the face), and NIOSH-certified fit-tested

N95 respirator. Other PPE must be considered including, but not limited to, double gloving, disposable shoe covers, and leg coverings.

- Prehospital providers should review/develop policy for disinfecting units and equipment if a high-risk case is treated/transported. As a precaution, CDC recommends using a disinfectant product with a higher potency than what is normally required for an enveloped virus.
- Patients may be vomiting, having diarrhea, or bleeding; they may be agitated or unconscious; and they may need intravenous fluid support or airway intervention, all of which creates a high risk of droplet aerosolization and inadvertent body fluid exposure. EMS personnel should avoid exposure to blood, or body fluids (urine, saliva, feces, vomit, sweat) of infected patients through contact with the skin, mucous membranes of the eyes, nose, or mouth, or injuries with contaminated needles or other sharp objects. It is suggested that procedures be done with high levels of caution, including stopping a transport vehicle rather than performing them while moving, and consider using a higher level of respiratory protection (N-95 mask rather than simple surgical mask) for certain situations.

Key Points:

- The likelihood of contracting Ebola is extremely low, unless a person has direct, unprotected contact with blood or body fluids of a person who is infected with Ebola.
- Ebola outbreaks are occurring in the western African countries of Guinea, Liberia, and Sierra Leone; there are also reported cases of Ebola in the city of Lagos, Nigeria.
- The CDC confirmed the first Ebola case in the continental U.S. occurred in Dallas, Texas on September 30, 2014, involving a traveler returning from Liberia.

Initial signs and symptoms of Ebola may include influenza-like findings such as sudden fever, chills, and other muscle aches, with diarrhea, nausea, vomiting, and abdominal pain occurring after about five (5) days. Other symptoms such as chest pain, shortness of breath, headache, or confusion may also develop. Symptoms may become increasingly severe and may include jaundice, severe weight loss, mental confusion, bleeding inside and outside the body, shock, and multi-organ failure.

- The incubation period for Ebola, from exposure to when signs or symptoms appear, ranges from 2 to 21 days (most commonly 8-10 days).
- Patients without symptoms who have been exposed to Ebola are not contagious.
- If there are no risk factors, proceed according to usual EMS care.

Information related to PPE, patient assessment, transport, transfer of care, cleaning of vehicles, and infection prevention, may be found on the CDC website at:

http://www.cdc.gov/vhf/ebola/hcp/index.html

Detailed checklists for Ebola Preparedness for EMS and hospitals are available at:

http://www.cdc.gov/vhf/ebola/pdf/ems-checklist-ebola-preparedness.pdf

http://www.cdc.gov/vhf/ebola/pdf/hospital-checklist-ebola-preparedness.pdf



Image credit: <u>http://wikitravel.org/upload/shared//thumb/2/27/West_Africa_regions_map.png/500px-West_Africa_regions_map.png</u>