

Infection control and case management in hospitals

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Sources: WHO, CDC

Memorandum 75 (13 August 2014)

- آلية عزل المصابين بأمراض معدية تنذر بانتشار الأوبئة
 - تعيين أطباء مرجعيين في المحافظات من أجل مكافحة الأمراض السارية لا سيما الإيبولا

الإجراءات الخاصة للوقاية من انتقال مرض الايبولا في المستشفيات

(التدابير الاحتياطية المعيارية،التدابير المعتمدة ضد الرذاذ، والتدابير الهوائية الموصى بها للوقاية من انتقال حمى الايبولا النزفية في المستشفيات)

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (1)

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

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (2)

Component	Recommendation	Comments
Personal Protective	 All persons entering the patient room should wear at least: Gloves Gown (fluid resistant or impermeable) Eye protection (goggles or face shield) Facemask 	 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 contaminating one's eyes, mucous membranes, or clothing with potentially infectious materials, and either
Equipment (PPE)	 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 	 Discarded, or For re-useable PPE, cleaned and disinfected according to the manufacturer's reprocessing instructions Hand hygiene should be performed immediately after removal of PPE

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (3)

Component	Recommendation	Comments
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 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 	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (4)

Component	Recommendation	Comments
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 a negative pressure room (Airborne Infection Isolation Room (AIIR)). 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. 	 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.

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (5)

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Component		Recommendation	Comments
	•	HCP should wear gloves, a gown, disposable shoe covers, and either a face shield that 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.	
Aerosol Generating Procedures (AGPs) cntd	•	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	
	•	Collection and handling of soiled re-usable respirators must be done by trained individuals using PPE as described above for routine patient care	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (6)

		
Component	Recommendation	Comments
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.

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (7)

Component	Recommendation	Comments
	 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 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. 	 Use registered hospital disinfectants to
Environmen tal Infection Control	 Face protection (face shield or facemask with goggles) should be worn when performing tasks such as liquid waste disposal that can generate splashes. 	disinfect hard non-porous surfaces.
	 Follow standard procedures, per hospital policy and manufacturers' instructions, for cleaning and/or disinfection of: 	Follow label instructions for use
	Environmental surfaces and equipment	
	> Textiles and laundry	
	Food utensils and dishware	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (8)

Component	Recommendation	Comments
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 and central health authorities (caza physicians, Mohafaza physicians, Surveillance and response teams at peripheral and central level). 	 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, Clostridium difficile) and available laboratory information

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (9)

Component	Recommendation	Comments
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 consistent with public health guidance 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. 	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (10)

Component	Recommendation	Comments
	 Persons with percutaneous or mucocutaneous exposures to blood, body fluids, secretions, or excretions from a patient with suspected Ebola HF should 	
Monitoring and Management of Potentially Exposed Personnel	 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 	
rer somei	Immediately contact occupational health/supervisor for assessment and access to post-exposure management services for all appropriate pathogens (e.g., Human Immunodeficiency Virus, Hepatitis C, etc.)	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (11)

Component	Recommendation	Comments
Monitoring and Management of Potentially Exposed Personnel	 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 Not report to work or should immediately stop working Notify their supervisor Seek prompt medical evaluation and testing Notify local and central health departments Comply with work exclusion until they are deemed no longer infectious to others 	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (12)

Component	Recommendation	Comments
Monitoring and Management of Potentially Exposed Personnel	 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 Should receive medical evaluation and follow-up care including fever monitoring twice daily for 21 days after the last known exposure. Hospitals should consider policies ensuring twice daily contact with exposed personnel to discuss potential symptoms and document fever checks May continue to work while receiving twice daily fever checks, based upon hospital policy and discussion with local and central health authorities (caza physicians, Mohafaza physicians, Surveillance and response teams at peripheral and central level). 	

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (13)

Component	Recommendation	Comments
Monitoring, Management, and Training of Visitors	 Avoid entry of visitors into the patient's room Exceptions may be 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. 	 Visitors who have been in contact with the Ebola HF patient before and during hospitalizatio n are a possible source of EHF for other patients, visitors, and staff.

Key Components of Standard, Contact, and Droplet Precautions Recommended for Prevention of EHF Transmission in Hospitals (14)

Component	Recommendation	Comments
Monitoring, Management, and Training of Visitors	 Visits should be scheduled and controlled to allow for: Screening for Ebola HF (e.g., fever and other symptoms) before entering or upon arrival to the hospital Evaluating risk to the health of the visitor and ability to comply with precautions 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 Visitor movement within the facility should be restricted to the patient care area and an immediately adjacent waiting area. 	 Visitors who have been in contact with the Ebola HF patient before and during hospitalizatio n are a possible source of EHF for other patients, visitors, and staff.

THANK YOU