

UCSF Infection Control Guidance for Managing Suspected Cases of Ebola Virus Disease

For any suspected and confirmed cases of Ebola Virus Disease, please contact:

When	Contact	Contact Information (all 415 area code)
Business Hours Only	Hospital Epidemiology and Infection Control (HEIC) On-Call Mobile (Mon-Fri 8 AM-4PM): <i>HEIC to follow Notification Algorithm-see IC Policy 7.1, Appendix III AND</i>	806-0269 443-4443 Adults; 443-8368 Peds 443-4283 Adults; 443-8185 Peds 443-0670 Adults; 443-2384 Peds 443-9097 notify PCD On Call 554-2830
Non-Business Hours	Hospital Nursing Supervisor Pediatric Nursing Supervisor <i>SUP to NOTIFY: Critical Care Medicine</i> <i>Hospital Medicine</i> <i>Infectious Diseases</i> Patient Care Director On Call Administrator On Call Emergency Phone Tree	353-1964 353-9195 443-4443 Adults; 443-8368 Peds 443-4283 Adults; 443-8185 Peds 443-0670 Adults; 443-2384 Peds See schedule 415-443-9097 (Sup's reference)
Any hour	Occupational Health	885-7580
	Patient Placement -Prepare to vacate 4th floor MZ	353-1937
	Lab (Blood Bank) -trigger Lab emergency phone tree	353-1313
	UCPD -notify OEH&S Emergency Response Team (ERT)	9-911
	Security -set up badge scanner	885-7890
	Facilities Management (FM) -ensure MZ iso rooms function	353-1128
	Material Services -deliver Ebola PPE cart	353-1837

1. **Isolation:** Place patient in a private Airborne Isolation Infection Room (AIIR) in Airborne* and modified Contact and Droplet Precautions
 - a. **Airborne: Although Ebola virus is not transmitted via the airborne route, patients will be placed in an airborne isolation room in the event that an aerosol-generating procedure is required.*
 - b. Duration of precautions will be assessed on a case-by-case basis in conjunction with public health authorities
2. **Hand hygiene** must be performed at minimum before putting on and immediately after removing PPE.
 - a. Additional hand hygiene opportunities while wearing PPE including gloves may be needed, including at the time of PPE doffing
3. **Monitoring (OEH&S Emergency Response Team [ERT]):**
 - a. ERT will monitor all HCW entering patient room for properly putting on and removing PPE, disinfection activities, hand hygiene.
4. **Personal protective equipment (PPE):** All persons entering the room will wear:

Table X**Personal Protective Equipment (PPE) Guidance Matrix for Ebola Virus Disease (EVD)****PPE Guidance Matrix for Persons under Investigation or Confirmed Ebola Viral Disease:**

Patient who screens positive for: TRAVEL to a country HIGH RISK for Ebola (Guinea), OR CONTACT with another person ill with Ebola and

SYMPTOMS: fever WITH one of the following: severe headache, muscle pain, weakness, diarrhea, vomiting, stomach pain, unexplained bleeding or bruising

PPE item	Portal of Entry ¹	PUI Evaluator in ED	HCW in Support Space	Anteroom Officer	HCW in Patient Room	Lab Staff	Waste Handler
	Contact & Droplet Precautions	High-level PPE	Low-level PPE	Mid-level PPE	High-level PPE	High-level PPE	Mid-level PPE
Fluid-resistant gown	X	X	X-task based				
Regular Nitrile gloves	X -double		X-task based				
Fluid resistant surgical mask	X		X-task based	X ⁴			X
Eye shields	X (or Face Shield or face mask with integral face shield)		X-task based				
Face Shield	X (or Eye Shields or face mask with integral face shield)	X ²	X-task based	X ⁴			X
Face mask with integral face shield	X (or face mask with eye shields or face mask)		X-task based				
N-95 Respirator		X ²					
Hospital-supplied scrubs				X	X	X	
Hospital-supplied disposable undergarments				X	X	X	
Hospital-supplied socks				X	X	X	
Hospital-supplied shoes				X	X	X	
AMMI Level 4 Gown		X		X	X		
Coverall suit with integral hood and booties		X		X	X	X	X
Boot covers with integral leggings		X		X	X	X	X
Long-cuff nitrile gloves		X -double ³		X -double ³	X -double ³	X -double ³	X -double ³
Surgical hood		X ²					
CAPR with disposable face shield		X		X ⁵	X	X	
CAPR shroud		X		X ⁵	X	X	
Bouffant bonnet		X		X ⁵	X	X	

Notes:

1) Portals of entry include: Ambulatory clinics, Radiology, Endoscopy, Periop, Security support staff, admitting, ED Triage, etc.

2) Worn if CAPR system is not used

3) An inner and outer glove is required. A third task-based glove may be used.

4) When accepting material from Hot Zone or monitoring PPE Doffing

5) When assisting with PPE doffing

PUI = Person Under Investigation

HCW = Health Care Worker

- 5. Patient care equipment:**
 - a. Dedicated medical equipment for all patient care
 - b. Preferentially use disposable equipment. If used, clean all non-disposable equipment according to hospital policies.
- 6. Staffing:**
 - a. Special Assignment staff will be trained in care of Ebola patients.
 - b. Only trained staff will provide direct patient care for Ebola patients.
 - c. While still ensuring safe patient care, the number of staff exposed to suspect and confirmed Ebola patients will be minimized.
 - d. Special Assignment staff will consist of age-appropriate Critical Care Medicine (CCM) attending providers, critical care RNs with CRRT certification, adult Hospital Medicine and Infectious Diseases providers.
 - i. At least 3 nurses per shift will be assigned.
 - ii. At least one CCM attending will be present at all times.
 - e. Consultation by other disciplines will occur via telemedicine when necessary; direct contact with suspect or confirmed patients is not routinely anticipated but may be necessary on a case by case basis.
 - f. Ancillary staff such as respiratory therapy and radiology will also provide consultation. Direct contact with suspect or confirmed patients is not routinely anticipated.
 - g. Procedures will be limited to those necessary for safe patient care
 - i. Nursing will conduct phlebotomy (minimum necessary for safe patient care).
 - ii. CCM attendings will conduct procedures including placing central venous catheters.
 - iii. Aerosol-generating procedures will be limited
- 7. Laboratory Specimen Collection/ Labeling/ Transport:**
 - a. Specimen collection-- collect all samples wearing appropriate PPE
 - b. Labeling and packaging per Lab Workflow
 - c. Specimen transport-- hand carry all samples to the satellite lab that will be in the Ebola containment unit (do not use pneumatic tube or dumbwaiters)
- 8. Environmental cleaning/ control:**
 - a. Wear recommended PPE for all environmental cleaning and disinfection.
 - b. Follow standard procedures, per hospital policy and manufacturers' instructions for cleaning and/or disinfecting environmental surfaces and equipment
 - c. Workflows are under development
- 9. Occupational health considerations**
 - a. Maintain a log of all HCW entering the patient's room (paper or scanning badges)
 - b. Management of exposed HCW per Occupational Health Services
- 10. Visitor monitoring**
 - a. Restrict all visitors from entering the Ebola Isolation Unit
 - i. Consider exceptions on a case-by-case basis.
 - ii. Maintain a log of all visitors entering the patient's room.
 - b. Visitors who have had contact with the patient should be:
 - i. Referred to SFDPH
 - ii. Screened daily for symptoms before entering the hospital.
 - iii. Educated and assessed for ability to comply with precautions
 - iv. Restricted to the patient room and an immediately adjacent waiting area.
- 11. Waste handling (refer to full policies/procedures from Hospitality, Office of Environmental Health and Safety)**

- a. All linen, textiles and waste generated (including bodily fluids such as urine, excrement, and effluent) will be discarded per Ebola Waste Handling workflow

References:

<http://emergency.cdc.gov/han/han00364.asp>

<http://www.cdc.gov/vhf/ebola/hcp/infection-prevention-and-control-recommendations.html>

[UCSF HEIC Communicable Disease Policy](#)

http://www.who.int/csr/resources/publications/ebola/filovirus_infection_control/en/