

INITIAL CLINICAL ASSESSMENT AND MANAGEMENT OF SUSPECTED EBOLA VIRUS DISEASE (EVD)

INFECTION CONTROL MEASURES*

A) Has the patient returned from an Ebola-affected country* within the past 21 days **AND** has the patient had a history of fever in the past 48 hours?
 *(<http://www.who.int/csr/disease/ebola/situation-reports/en/>)
OR
B) Has the patient: (i) cared for; (ii) come into contact with body fluids of; (iii) handled clinical specimens (blood, urine, faeces, tissues, laboratory cultures) from an individual or animal known or strongly suspected to have Ebola **AND** has the patient had a history of fever in the past 48 hours?

STANDARD PRECAUTIONS APPLY:
 Hand hygiene; gloves; plastic apron.
 Eye protection and fluid repellent surgical facemask to be used for splash inducing procedures.

ENHANCED PRECAUTIONS APPLY:
 Hand hygiene; single use gloves (two pairs to be worn); fluid repellent disposable gown or suit; hood; eye protection (goggles or face shield); plastic apron (over disposable gown/suit); boots or shoe covers; FFP3/N95 respirator – **full skin coverage is essential**

- * KEY EVD INFECTION CONTROL RECOMMENDATIONS**
- Hand hygiene is critical
 - Rigorous training in the use of personal protective equipment (PPE) is required
 - Use of a trained PPE observer is recommended
 - Avoid aerosol generating procedures

NO to A and B

EVD UNLIKELY
 Use standard precautions and manage as appropriate

YES to A only

YES to B

ADDITIONAL QUESTIONS: see Ebola Case Definitions: (<http://www.who.int/csr/disease/ebola/situation-reports/en/>)

- Does the patient have other clinical symptoms of Ebola, such as fatigue, muscle pain, headache, vomiting, diarrhoea, rash, or abdominal pain?
- Has the patient had contact with primates, antelopes or bats in an Ebola affected area OR had close involvement with animal slaughter in an Ebola affected area?
- Is the patient a health care worker who has taken care of patients with Ebola within the past 21 days?
- **Has the patient, otherwise, been in CLOSE contact with ill persons with symptoms of Ebola or participated in funeral preparations or attended a funeral for persons who died from Ebola, or unknown illness?**

NO to ALL additional questions

YES to ANY additional questions

LOW POSSIBILITY OF EBOLA

- Investigate for malaria, dengue, chikungunya and leptospirosis
- Other routine investigations as appropriate from clinical picture, including blood cultures
- Empirical malaria treatment
- Discuss with infectious disease specialist/microbiologist/virologist

PERSON UNDER INVESTIGATION

- ISOLATE PATIENT IN A SINGLE ROOM with private bathroom
- Implement standard, contact and droplet precautions and use PPE as listed
- Notify National Health Authorities, International Health Regulations National Focal Point (IHR NFP), CARPHA and PAHO/WHO
- Discuss with infectious disease specialist/microbiologist/virologist
- Empirical Malaria treatment; supportive management for Dengue, Chikungunya
- Hold all other investigations; Consider empirical antimicrobials, as indicated
- Inform laboratory of possible EBOLA case for specimen packaging and transport
- If facility is not capable of isolation and/or appropriate PPE, discuss with National Health Authorities.

Malaria OR alternative diagnosis confirmed?

Yes

No

Clinical concern remains?

Yes

No

EVD TESTING INDICATED

- Discuss with infectious disease specialist/microbiologist/virologist
- If decision is made to test for Ebola, notify National Health Authorities who can arrange testing with WHO Collaborating Centre Laboratories (US Centers for Disease Control and Prevention, Public Health Agency of Canada)
- Collect and ship specimen to the relevant referral laboratory

Negative Result

Positive Result

Repeat in 72 hours

Negative Result

• Manage with standard precautions
 • Discuss with infectious disease specialist/microbiologist/virologist

CONFIRMED EBOLA

- Notify National Public Health Authorities, IHR NFP, CARPHA and PAHO/WHO
- Transfer to designated isolation facility
- Launch full public health actions including contact tracing, reporting and management
- Inform laboratory if other tests are needed



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Disclaimer: All due care has been taken to ensure that the content of this algorithm is current and accurate. This algorithm has been provided as a guide for EVD testing and infection control measures, it is not intended to supersede professional clinical judgment.