

# Ebola Virus Disease Outbreak Toolbox

Updated: June 2019



## Key reference documents

- [Ebola and Marburg virus disease epidemics: preparedness, alert, control and evaluation: Interim manual \(version 1.2.\)](#) (Geneva: World Health Organization; 2014).
- [Ebola virus disease information page](#) (Geneva: World Health Organization).
- [Ebola virus disease fact sheet](#) (Geneva: World Health Organization; 2018).



## Case definitions

### WHO suggested outbreak case definition<sup>1</sup>

#### Suspected case:<sup>2</sup>

- any person, alive or dead, suffering or having suffered from sudden onset of high fever, and had contact with:
  - a suspected, probable or confirmed case, or a dead or sick animal; **or**
  - any person with sudden onset of high fever, **and** at least three of the following symptoms: headache, lethargy, anorexia/loss of appetite, aching muscles or joints, stomach pain, difficulty swallowing, vomiting, difficulty breathing, diarrhoea, hiccups; **or**
  - any person with inexplicable bleeding; **or**
  - any sudden, inexplicable death.

#### Probable case:<sup>3</sup>

- any suspected case evaluated by a clinician; **or**
- any deceased suspected case (where it has not been possible to collect specimens for laboratory confirmation) having an epidemiological link with a confirmed case.

#### Confirmed case:<sup>3</sup>

- any suspected or probable case with a positive laboratory result (detection of Ebola virus by reverse transcription polymerase chain reaction (RT-PCR), or detection of Immunoglobulin M (IgM) antibodies directed against Marburg or Ebola viruses).

<sup>1</sup> See: [Case definition recommendations for Ebola or Marburg virus diseases](#) (Geneva: World Health Organization; 2014).

<sup>2</sup> Case definition to be used by mobile teams, health stations and health centres. Adapt as needed to new clinical presentations or different modes of transmission related to the local event.

<sup>3</sup> Case definitions for exclusive use by hospitals and surveillance teams.

### Discarded case:<sup>3</sup>

- any suspected or probable case with a negative laboratory result (showing no specific antibodies, ribonucleic acid (RNA) or specific detectable antigens).

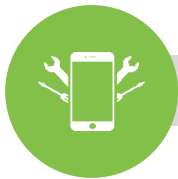
### WHO surveillance case definition

- Technical guidelines for integrated disease surveillance and response in the African region (Brazzaville: WHO Regional Office for Africa; 2010 (p. 287)).

### WHO other definition

#### Definition of a contact of a case:

- any person having been exposed to a suspected, probable or confirmed case of Ebola virus infection, less than 21 days before the identification as a contact by surveillance teams, in at least one of the following ways:
  - slept in the same household with a case;
  - direct physical contact with the case (alive or dead) during the illness;
  - direct physical contact with the (dead) case at the funeral;
  - touched his/her blood or body fluids during the illness;
  - touched his/her clothes or linen;
  - been breastfed by a patient (baby).



## Data collection tools

- Case investigation form(s):
  - Fiche d'investigation de notification de cas d'Ebola ou de Marburg. Dans : Flambées épidémiques de maladie à virus Ebola et Marburg : préparation, alerte, lutte et évaluation. Genève : Organisation mondiale de la Santé ; 2014 : Annexe 5 (WHO/HSE/PED/CED/2014.05 ; [https://apps.who.int/iris/bitstream/handle/10665/130161/WHO\\_HSE\\_PED\\_CED\\_2014.05\\_fr\\_e.pdf](https://apps.who.int/iris/bitstream/handle/10665/130161/WHO_HSE_PED_CED_2014.05_fr_e.pdf)).
  - Ebola or Marburg case investigation and recording sheet. In: Ebola and Marburg virus disease epidemics: preparedness, alert, control and evaluation. Geneva: World Health Organization; 2014: Annex 5 (WHO/HSE/PED/CED/2014.05; [https://apps.who.int/iris/bitstream/handle/10665/130160/WHO\\_HSE\\_PED\\_CED\\_2014.05\\_eng.pdf](https://apps.who.int/iris/bitstream/handle/10665/130160/WHO_HSE_PED_CED_2014.05_eng.pdf)).
- Line list(s): Not available.
- Electronic tools:
  - *GoData 2.0*: contact [godata@who.int](mailto:godata@who.int)

<sup>3</sup> Case definitions for exclusive use by hospitals and surveillance teams.



## Laboratory confirmation

- [Ebola and Marburg virus disease epidemics: preparedness, alert, control, and evaluation: Interim manual \(version 1.2.\)](#) (Geneva: World Health Organization; 2014 (Chapter 4 and associated annexes)). [Laboratory guidance for the diagnosis of Ebola virus disease: interim recommendations](#) (Geneva: World Health Organization; 2014)



## Response tools and resources

- Contact tracing: WHO Go Data 2.0 : *contact* [godata@who.int](mailto:godata@who.int).
- [Clinical management of patients with viral haemorrhagic fever: A pocket guide for front-line health workers: interim emergency guidance for country implementation](#) (Geneva: World Health Organization; 2016).



## Training

- [Ebola: GO 2.0](#) (Geneva: World Health Organization).
- [Ebola: Knowledge resources for responders](#) (Geneva: World Health Organization).
- [Ebola: Clinical management of Ebola virus disease](#) (Geneva: World Health Organization).
- [Ebola: ePROTECT \(an occupational health and safety briefing\)](#) (Geneva: World Health Organization).



## Other resources

- [Managing epidemics: key facts about major deadly diseases](#) (Geneva: World Health Organization; 2018).
- [Ebola key technical documents](#) (Geneva: World Health Organization; 2017).