

Ebola Virus 2014 West Africa Outbreak – [CDC website link](#)

Genetic analysis of the virus in this outbreak indicates that it is closely related (97% identical) to variants of Ebola virus (species *Zaire ebolavirus*) identified earlier in the Democratic Republic of the Congo and Gabon

<http://www.cdc.gov/vhf/ebola/diagnosis/index.html>

Timeline of Infection	Diagnostic tests available
Within a few days after symptoms begin	<ul style="list-style-type: none"> • Antigen-capture enzyme-linked immunosorbent assay (ELISA) testing • IgM ELISA • Polymerase chain reaction (PCR) • Virus isolation
Later in disease course or after recovery	<ul style="list-style-type: none"> • IgM and IgG antibodies
Retrospectively in deceased patients	<ul style="list-style-type: none"> • Immunohistochemistry testing • PCR • Virus isolation

Codes mentioned below are used for representing the Ebola virus diagnostic tests in electronic data exchange using HL7 message. These codes can be downloaded from CDC vocabulary server at <http://phinvads.cdc.gov>

[Ebola virus disease concept](#) provides the link to the following value sets: [Lab Test Name \(Ebola virus\)](#) and [Lab Result \(Ebola virus\)](#)

SNOMED is the standard used for reporting the results which includes microorganism. These SNOMED codes can be sent in HL7 Observation segment (OBX-5).

Concept Code	Concept Name	Preferred Concept Name	Preferred Alternate Code	Code System OID	Code System Name
424206003	Genus Ebolavirus (organism)	Ebolavirus	L-300C8	2.16.840.1.113883.6.96	SNOMED-CT
423042009	Ivory Coast ebolavirus (organism)	Ivory Coast ebolavirus	L-300CA	2.16.840.1.113883.6.96	SNOMED-CT
422448009	Reston ebolavirus (organism)	Reston ebolavirus	L-300CB	2.16.840.1.113883.6.96	SNOMED-CT
424116003	Sudan ebolavirus (organism)	Sudan ebolavirus	L-300CC	2.16.840.1.113883.6.96	SNOMED-CT
425092008	Zaire virus (organism)	Zaire virus	L-300CD	2.16.840.1.113883.6.96	SNOMED-CT

CDC Vocabulary and PHIN VADS Team

E-mail: PHINVS@CDC.GOV

CDC vocabulary server website: <https://phinvads.cdc.gov>

LOINC is the standard used for identifying the laboratory test. These LOINC codes can be sent in HL7 Observation Segment (OBX-3).

Concept Code	Concept Name	Preferred Concept Name	Code System OID	Code System Name
22263-8	EBOV Ab Titr Ser	Ebola virus Ab [Titer] in Serum	2.16.840.1.113883.6.1	LOINC
7862-6	EBOV Ab Titr Ser IF	Ebola virus Ab [Titer] in Serum by Immunofluorescence	2.16.840.1.113883.6.1	LOINC
11581-6	EBOV Ab Ser-aCnc	Ebola virus Ab [Units/volume] in Serum	2.16.840.1.113883.6.1	LOINC
71768-6	EBOV Ag XXX QI EIA	Ebola virus Ag [Presence] in Unspecified specimen by Immunoassay	2.16.840.1.113883.6.1	LOINC
41637-0	EBOV Ag XXX QI IF	Ebola virus Ag [Presence] in Unspecified specimen by Immunofluorescence	2.16.840.1.113883.6.1	LOINC
71770-2	EBOV IgG Ser QI EIA	Ebola virus IgG Ab [Presence] in Serum by Immunoassay	2.16.840.1.113883.6.1	LOINC
71767-8	EBOV IgG Titr Ser EIA	Ebola virus IgG Ab [Titer] in Serum by Immunoassay	2.16.840.1.113883.6.1	LOINC
71712-4	EBOV IgM Ser QI EIA	Ebola virus IgM Ab [Presence] in Serum by Immunoassay	2.16.840.1.113883.6.1	LOINC
71711-6	EBOV IgM Titr Ser EIA	Ebola virus IgM Ab [Titer] in Serum by Immunoassay	2.16.840.1.113883.6.1	LOINC
41636-2	EBOV RNA XXX QI PCR	Ebola virus RNA [Presence] in Unspecified specimen by Probe and target amplification method	2.16.840.1.113883.6.1	LOINC
75411-9	EZ1 RNA PlasBld QI PCR	Ebola Zaire virus RNA [Presence] in Plasma or Blood Probe and target amplification method	2.16.840.1.113883.6.1	LOINC