

Sierra Leone Ebola Database (SLED)

Laboratory Testing File Public Use Data Dictionary

Source File Original: Labs11212015_commons_03072017_work12values.xlsx

Number of records: 106,172

Variables number: 44

Dictionary variable number: 2

Variable name: Laboratory

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition: Laboratory performing the test

Values/Range: Canadian–Kailahun, CDC–Bo, China CDC–Jui, CPHRL/MEDAC Laboratory–Lakka, Dutch Laboratory –Kono, Dutch Laboratory #2, EM(European Mobile) Laboratory –Hastings, Italian Laboratory –Goderich, MEDAC Laboratory –Moyamba, NICD–Lakka, Nigerian EM(European Mobile) Laboratory –Kambia, Nigerian Laboratory –Kingtom, OCNML–Mobile2–Magburaka, PCMH–Emergency, PHE–Kerry Town, PHE–Makeni, PHE–Port Loko, Unknown

Format: Text

Length: 25

Frequency: Canadian–Kailahun – 2,575 (2.4%); CDC–Bo – 2,6794 (25.2%); China CDC–Jui – 8,947 (8.4%); CPHRL/MEDAC Lab–Lakka – 3,447 (3.2%); Dutch Lab–Kono – 4,969 (4.6%); Dutch Lab #2 – 3,310 (3.1%); EMLab–Hastings – 3,460 (3.2%); Italian Lab–Goderich – 2,859 (2.6%); MEDAC Lab–Moyamba – 887 (0.8%); NICD–Lakka – 8,408 (7.9%); Nigerian EMLab–Kambia – 1,708 (1.6%); Nigerian Lab–Kingtom – 2,074 (1.9%); OCNML–Mobile2–Magburaka – 2,403 (2.2%); PCMH–Emergency – 622 (0.5%); PHE–Kerry Town – 5,742 (5.4%); PHE–Makeni – 14,306 (13.4%); PHE–Port Loko – 13,316 (12.5%); Unknown – 345 (0.3%)

Notes: Dutch Lab - same as Dutch Lab #2, #10–#19, #20–#29, #3, #30–#39, #4, #40–#49, #5, #50–#59, #6, #60–#69, #7, #70–#72, #74, #8, #9, also known as Dutch Lab PCMH; CPHRL/MEDAC Lab - Lakka - same as MEDAC/DTRA lab; OCNML–Mobile2 – Magburaka - same as Canadian lab in Tonkolili

Dictionary variable number: 9

Variable name: Stillbirth/Newborn

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Indicate if the specimen has been collected from stillborn or newborn child

Values/Range: 1- a) age is 0 days, or - b) age -unknown and "stillborn" or "newborn" are mentioned on the record, 0 - otherwise

Format: N

Length: 1

Frequency: 0 – 104,005 (97.9%); 1 – 2,167 (2.0%)

Notes: In some cases, live newborn children were tested with a swab, therefore swab does not indicate that the child was dead.

Dictionary variable number: 10

Variable name: Age_Yrs_lab

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): Restricted, will be replaced by age group in the research data package

Definition: Age in years (whole number)

Values/Range: 0-120; unknown

Format: Alphanumeric

Length: 7

Frequency: 0-120 – 98,666 (92.9%); unknown – 7,506 (7.0%)

Notes: Derived from Age_Years, Age_Month, and Age_Days

Dictionary variable number: 14

Variable name: Sex_lab

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Patient's sex as recorded by laboratory technician from Case Investigation Form (CIF) or a label on specimen container

Values/Range: 1-male; 2- female; unknown

Format: Alphanumeric

Length: 7

Frequency: 1- 42,778 (40.2%); 2- 38,889 (36.6%); unknown- 24,505 (23.0%)

Notes Derived from variable Gender

Dictionary variable number: 16

Variable name: VitStatus

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Patient' vital status at the time of specimen's collection

Values/Range: 1- alive (specimen recorded or mentioned is blood, live swab, urine, serum, or breast milk) 2 - dead (specimen is dead swab or death or burial mentioned on the record) 3 - unknown (specimen type is swab or unknown swab) 9 - unknown, otherwise

Format: N

Length: 1

Frequency: 1 – 37,916 (35.7%); 2 – 46,811 (44.0%); 3 – 20,738 (19.5%); 9 – 707 (0.6%)

Notes: Derived from specimen type or otherwise mentions on the record. Specimen type “Blood” indicates that a patient was alive at the time of collection, although in some cases post-mortem blood was collected. Generally, swabs were collected from the dead persons, although some live patients, especially small children were also swabbed.

Dictionary variable number: 17

Variable name: Live_def

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: 1- alive (specimen recorded or mentioned is blood, live swab, urine, serum, or breast milk)

Values/Range: 1, blank

Format: Text

Length: 1

Frequency: 1 – 37,879 (35.6%); blank – 68,293 (64.3%)

Notes: Specimen type “Blood” indicates that a patient was alive at the time of collection, although in some cases post-mortem blood was collected. Generally, swabs were collected from the dead persons, although some live patients, especially small children were also swabbed.

Dictionary variable number: 18

Variable name: Death_def

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: 1 - dead (specimen is dead swab or death or burial mentioned on the record)

Values/Range: 1, blank

Format:

Length: 1

Frequency: 1 – 46,799 (44.0%); blank – 59,373 (55.9%)

Notes: Generally, swabs were collected from the dead persons, although some live patients, especially small children were also swabbed.

Dictionary variable number: 19

Variable name: Specimen_Type

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): No

Definition: Specimen type received by the laboratory

Values/Range: Blood; Dead Swab; Live Swab; No Sample; Other; Swab; Unknown; Unknown Swab

Format: Text

Length: 12

Frequency: Blood – 37,641 (35.4%); Dead Swab – 45,389 (42.7%); Live Swab – 196 (0.1%); No Sample – 7 (0.0%); other – 255 (0.2%); Swab – 14,652 (13.8%); unknown – 612 (0.5%); unknown Swab – 7,420 (6.9%)

Notes: Blood (e.g., whole, serum, or post-mortem); Swab (should be oral but sometimes taken elsewhere, sometimes taken from living patient due to difficulty drawing blood); unknown swab means swab from unknown origin; Other (other specimen types not defined). Specimen type “Blood” indicates that a patient was alive at the time of collection, although in some cases post-mortem blood was collected. Generally, swabs were collected from the dead persons, although some live patients, especially small children were also swabbed.

Dictionary variable number: 20

Variable name: Sample_Type

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.) No

Definition: Type of the test taken from the patient

Values: Initial, Repeat, Follow-Up, Unknown

Format: Text

Length: 9

Frequency: Follow-Up – 4,956 (4.6%); initial – 76,278 (71.8%); Repeat – 3,695 (3.4%); unknown – 21,243 (20.0%)

Notes: Initial - initial sample submitted for testing, may include any test submitted prior conclusive positive or negative diagnosis (e.g. if the first test was collected during first 3 days since onset); Repeat - sample submitted for repeat testing (earlier in the epidemic means any follow-up test); Follow-up - sample submitted by treatment facility for discharge of confirmed case

Dictionary variable number: 21

Variable name: District_Imp

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: District of the patient as recorded by laboratory technician from CIF or a label on specimen container

Values: Bo; Bombali; Bonthe; Kailahun; Kambia; Kenema; Koinadugu; Kono; Moyamba; Port Loko; Pujehun; Tonkolili; Western Area; Unknown; Cote d'Ivoire; Forecoriah; Guinea; Liberia

Format: Text

Length: 12

Frequency: Bo – 7,974 (7.5%); Bombali – 9,139 (8.6%); Bonthe – 2,272 (2.1%); Kailahun – 1,679 (1.6%); Kambia – 4,484 (4.2%); Kenema – 5,861 (5.5%); Koinadugu – 2,467 (2.3%); Kono – 7,247 (6.8%); Moyamba – 5,282 (4.9%); Port Loko – 11,334 (10.6%); Pujehun – 2,265 (2.1%); Tonkolili – 6,437 (6.0%); Unknown – 7,252 (6.8%); Western Area – 32,456 (30.5%); Cote d'Ivoire – 2 (0.0%); Forecoriah – 1 (0.0%); Guinea – 17 (0.0%); Liberia – 3 (0.0%)

Notes: Derived from the variable District or otherwise mention of the patient's district on the record

Dictionary variable number: 23

Variable name: Chiefdom

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): No

Definition: Chiefdom of the patient as recorded by laboratory technician from CIF or a label on specimen container

Values: N/A

Format: Alphanumeric

Length: 28

Frequency: N/A

Notes: **Kailahun** - Dea; Jaluahun; Jawei; Kissi Kama; Kissi Teng; Kissi Tongi; Luawa; Malema; Mandu; Peje Bongre; Peje West; Penguia; Upper Bambara; Yawei

Kenema - Dama; Dodo; Gaura; Gorama Mende; Kandu Leppiam; Koya; Langurama Ya; Lower Bambara; Malegohun; Niawa; Nomo; Nongowa; Simbaru; Small Bo; Tunkia; Wando

Kono - Fiama; Gbane Kandor; Gbane; Gbense; Gorama Kono; Kamara; Lei; Mafindor; Nimikoro; Nimiya; Sandor; Soa; Tankoro; Toli

Bombali - Biriwa; Bombali Shebora; Gbanti Kamaranka; Gbendembu Ngowahun; Libeisaygahun; Magbaiamba Ndowahun; Makari Gbanti; Paki Massabong; Safroko Limba; Sanda Loko; Sanda Tenraren; Sella Limba; Tambakha

Kambia - Briama; Gbinle Dixing; Magbema; Mambolo; Masungbala; Samu; Tonko Limba

Koinadugu - Dembelia Sikunia; Diang; Folasaba; Kasunko; Mongo; Neya; Nieni; Sengbe; Sulima; Wara-Wara Bafodea; Wara-Wara Yagala

Port Loko - Bureh Kaseh; Buya Romende; Debia; Kaffu Bullom; Loko Massama; Maforki; Marampa; Masimera; Koyo; Sanda Magbolontor; T.M. Safroko

Tonkolili - Gbonkolenken; Kafe Simiria; Kalansongoia; Kholifa Mabang; Kholifa Rowalla; Kunike Barina; Kunike; Malal Mara; Sambaia; Tane; Yoni

Bo - Badjia; Bagbo; Bagbwe; Baoma; Bumpe-Gao; Gbo; Jaiama Bongor; Kakua; Komboya; Lugbu; Niawa Lenga; Selenga; Tikonko; Valunia; Wonde

Bonthe - Bendu; Bum; Dema; Imperri; Jong; Kpanda; Kwamebai Krim; Nongoba Bullom; Sittia; Sogbini; Yawbeko

Moyamba - Bagruwa; Banta; Bumpe; Dasse; Fakunya; Kagboro; Kaiyamba; Kamajei; Kongbora; Kori; Kowa; Ribbi; Timdale; Upper Banta

Pujehun - Barri; Gallines Perri; Kpaka; Kpanga Kagonde; Makpele; Malen; Mano Sakrim; Panga Krim; Peje; Soro Gbema; Sowa; Yekomo Kpukumu Krim

Dictionary variable number: 24

Variable name: Village

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition: Village/Town of the patient as recorded by laboratory technician from CIF or a label on specimen container

Values: Alphanumeric

Length: 41

Frequency: N/A

Notes: May contain complete address

Dictionary variable number: 25

Variable name: Address

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition: Address of the patient as recorded by laboratory technician from CIF or a label on specimen container

Values/Range: N/A

Format: Alphanumeric

Length: 85

Frequency: N/A

Notes:

Dictionary variable number: 26

Variable name: Referral_Facility

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition: Facility or health care worker submitting the specimen

Values/Range: N/A

Format: Alphanumeric

Length: 37

Frequency: N/A

Notes: Facility, community care center, district surveillance officer, or swabber that submitted the specimen.

Dictionary variable number: 27

Variable name: BestDate_Month

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Month of the latest valid date on the record

Values/Range: 1-12, unknown

Format: Alphanumeric

Length: 7

Frequency: 1-12 – 106,071 (99.9%); unknown – (0.0%)

Notes:

Dictionary variable number: 29

Variable name: BestDate_Year

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Year of the latest valid date on the record

Values/Range: 2014, 2015, unknown

Format: Alphanumeric

Length: 7

Frequency: 2014-2015 – 106,071 (99.9%); unknown – 101 (0.0%)

Notes:

Dictionary variable number: 30

Variable name: BestDate

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Latest valid date on the record. Date of specimen tested when correct and available, otherwise derived from other dates mentioned on the record or external sources.

Values/Range: 6/5/2014-11/17/2015 in format MM/DD/YYYY, unknown

Format: Date

Length: 10

Frequency: 6/5/2014-11/17/2015 – 106,071 (99.9%); unknown MM/DD/YYYY – 101 (0.0%)

Notes: For 122 records Best Date was confirmed or derived using VHF or historic laboratory records.

Dictionary variable number: 32

Variable name: Date_Hospitalization

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Date of patient's admission to the medical facility (usually the one submitting the sample), as recorded by laboratory technician from CIF or a label on specimen container

Values/Range: 1/1/2014-10/25/2015, blank

Format: Text **Length:** 10

Frequency: 1/1/2014-10/25/2015 – 12,465 (11.7%); blank – 93,606 (88.1%)

Notes: Some dates may be recorded erroneously or in mixed format (DD/MM/YYYY)

Dictionary variable number: 33

Variable name: Date_Symptom_Onset **Recode:** No **Original:** Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Date of patient's symptoms onset, as recorded by laboratory technician from CIF or a label on specimen container

Values/Range: 1/1/2010-10/28/2015, blank

Format: Text **Length:** 10

Frequency: 1/1/2010-10/28/2015 – 83,579 (78.7%); blank – 22,492 (21.1%)

Notes: Some dates may be recorded erroneously or in mixed format (DD/MM/YYYY)

Dictionary variable number: 34

Variable name: Date_Specimen_Collection **Recode:** No **Original:** Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Date when specimen was collected, as recorded by laboratory technician from CIF or a label on specimen container

Values/Range: 8/4/2014-10/30/2015, blank

Format: Text **Length:** 10

Frequency: 8/4/2014-10/30/2015 – 99,202 (93.4%); blank – 6,869 (6.4%)

Notes: Some dates may be recorded erroneously or in mixed format (DD/MM/YYYY)

Dictionary variable number: 35

Variable name: Date_Specimen_Received **Recode:** No **Original:** Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Date when specimen was received by the laboratory

Values/Range: 7/1/2014-10/26/2015; blank

Format: Text

Length: 10

Frequency: 7/1/2014-10/26/2015 – 103,984 (97.9%); blank – 2,087 (1.9%)

Notes: Some dates may be recorded erroneously or in mixed format (DD/MM/YYYY). Earlier in the epidemic the time from specimen collection to its delivery can be as long as 7 days or more.

Dictionary variable number: 36

Variable name: Date_Specimen_Tested

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by the Epi Week in the research data package

Definition: Date when specimen was tested

Values/Range: 7/2/2014-10/26/2015, blank

Format: Text

Length: 10

Frequency: 7/2/2014-10/26/2015 – 104,051 (98.0%); blank – 2,020 (1.9%)

Notes: Some dates may be recorded erroneously or in mixed format (DD/MM/YYYY)

Dictionary variable number: 37

Variable name: PcrI_Target

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by PCR ranges in the research data package

Definition: Number of cycles of PCR that occurred before Ebola specific RNA was first detected with specimen; inverse relationship to quantity of RNA (i.e., lower CT value, higher quantity of RNA)

Values/Range: 0-43.34; multiple values (e.g. 35.6/pos); range (e.g. 42.92-- >45); Indeterminate (CDC - Bo, Dutch Lab - Kono, Dutch Lab #2, OCNML-Mobile2 - Magburaka); Invalid (Dutch Lab - Kono); Neg; Nil (Canadian - Kailahun, OCNML-Mobile2 - Magburaka); O (Nigerian Lab - Kingtom); Pos (Dutch Lab - Kono); Unknown

Format: Alphanumeric

Length: 13

Frequency: - 0-43.34; multiple values (e.g. 35.6/pos)); range (e.g. 42.92-- >45); Indeterminate (CDC - Bo, Dutch Lab - Kono, Dutch Lab #2, OCNML-Mobile2 - Magburaka); Invalid (Dutch Lab - Kono); Neg; Nil (Canadian - Kailahun, OCNML-Mobile2 - Magburaka); O (Nigerian Lab - Kingtom); Pos (Dutch Lab - Kono) – 60,686 (57.1%); Unknown – 45,385 (42.7%)

Notes: Valuable if comparing across same assay being run at same laboratory (e.g., CDC Bo lab); if compared across PCRs, it becomes more difficult to assess CT values because of different EVD targets (some assays more sensitive than others); Different laboratories had different PCR assays and different ways of reporting results. Some laboratories had 2 different targets and some laboratories just reported negative or positive results without CT values.

Dictionary variable number: 38

Variable name: PcrII_Target

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, will be replaced by PCR ranges in the research data package

Definition: Number of cycles of PCR that occurred before Ebola specific RNA was first detected with specimen; inverse relationship to quantity of RNA (i.e., lower CT value, higher quantity of RNA)

Values/Range: 12-43.5, multiple values (e.g. 35.6/pos); range (e.g. 42.92-- >45); Indeterminate (CDC - Bo, Dutch Lab - Kono, Dutch Lab #2, OCNML-Mobile2 - Magburaka); Invalid (Dutch Lab - Kono); Neg; Nil (Canadian - Kailahun, OCNML-Mobile2 - Magburaka); O (Nigerian Lab - Kingtom); Pos (Dutch Lab - Kono); Unknown

Format: Alphanumeric

Length: 13

Frequency: 12-43.5, multiple values (e.g. 35.6/pos); range (e.g. 42.92-- >45); Indeterminate (CDC - Bo, Dutch Lab - Kono, Dutch Lab #2, OCNML-Mobile2 - Magburaka); Invalid (Dutch Lab - Kono); Neg; Nil (Canadian - Kailahun, OCNML-Mobile2 - Magburaka); O (Nigerian Lab - Kingtom); Pos (Dutch Lab - Kono) – 36,641 (34.5%); Unknown – 69,430 (65.3%)

Notes: Valuable if comparing across same assay being run at same laboratory (e.g., CDC Bo lab); if compared across PCRs, it becomes more difficult to assess CT values because different EVD targets (some assays more sensitive than others); Different laboratories had different PCR assays and different ways of reporting results. Some laboratories had 2 different targets and some laboratories just reported negative or positive values without CT values.

Dictionary variable number: 39

Variable name: Ebola_Result

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): No

Definition: Ebola testing result interpretation

Values/Range: Positive - Ebola specific RNA detected below laboratory's cut off value for PCRI or PCRII; Negative - Ebola specific RNA detected above laboratory cut off for PCRI or PCRII; Indeterminate - not able to determine if specimen negative or positive; Pending - test results not available yet or sample was collected within 72 hours since symptom onset; Rejected - specimen was inadequate; Unknown

Format: Text

Length: 13

Frequency: Indeterminate – 960 (0.9%); Negative – 88,615 (83.4%); Pending – 3,968 (3.7%); Positive – 11,330 (10.6%); Rejected – 772 (0.7%); unknown – 476 (0.4%)

Notes:

Dictionary variable number: 40

Variable name: Comments

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition: Comments by the laboratory technician

Values/Range: N/A

Format: Alphanumeric

Length: 261

Frequency: N/A

Notes May contain a valuable information about the patient, name of the head of patient' household, condition of the specimen, additional information from the container label, and other.

Dictionary variable number: 41

Variable name: Malaria_Result

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): No

Definition: Result of any malaria test performed

Values/Range: Indeterminate; Negative; Pending; Positive, Positive (very Weak); Positive (weak); Unknown

Format: Text

Length: 20

Frequency: Indeterminate – 12 (0.0%); Negative – 10,950 (10.3%); Pending – 1 (0.0%); Positive – 4,750 (4.4%); Positive (very Weak) – 4 (0.0%); Positive (wak) – 22 (0.0%); Unknown – 90,332 (85.0%)

Notes: Malaria test was not possible when the specimen type was swab.

Dictionary variable number: 43

Variable name: Other_Tests

Recode: No

Original: Yes

Restricted (PII, record identifier, etc.): Restricted, available by special request

Definition:

Values/Range: N/A

Format: Alphanumeric

Length: 144

Frequency: N/A

Notes: Generally contains additional comments recorded by the laboratory technician

Dictionary variable number: 44

Variable name: InconsistentTube

Recode: Yes

Original: No

Restricted (PII, record identifier, etc.): No

Definition: Indicates inconsistency in the names, dates or other information on CIF and specimen container noted by the laboratory technician

Values/Range: 1 - inconsistency found between CIF and label on specimen container, 0 – otherwise

Format: Text

Length: 1

Frequency: 1 – 1,169 (1.1%); 0 – 104,902 (98.8%)

Notes:

