Required Minimum Data Fields for Human Influenza Surveillance Studies

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This document contains the required and optional minimum data fields for data associated with human surveillance studies. The NIAID CEIRS centers must send surveillance data to Influenza Research Database (www.fludb.org) in the format detailed below.

How to interpret the document:

**BOLD:** Name of field

**ITALICS:** Definition of field, format for values of this field, and curation to be carried out on data.

## REQUIRED FIELDS

**1. Collecting_Institution (REQUIRED)**

*Definition:* Code of the institution to which the person collecting the sample belongs. Codes will be assigned by NIAID/IRD

*Format:* Text

*Curation:* none

**2. Longitudinal_Study (REQUIRED)**

*Definition:* Notifies IRD whether this host is part of a longitudinal study.

*Format:* Y/N

*Curation:* Must be one of the allowed values.

**3. Subject_Unique_Identifier (REQUIRED)**

*Definition:* An identifier assigned by the CEIRS surveillance sites to maintain patient privacy. If multiple samples are collected from a subject, then all must be linked to the same unique identifier.

*Format:* Free form. Up to 50 characters of any combination of alphanumeric characters and special characters except: single quote, double quote, ampersand, hash (pound sign), forward slash, carriage returns, question mark, equal or plus signs, greater than or less than signs, percent and period. Leading and trailing spaces are also forbidden.

*Curation:* None
4. **Gender (REQUIRED)**  
*Definition:* Gender of the subject.  
*Format:* (M)ale/(F)emale  
*Curation:* Must be one of the two allowed values: M/F

5. **Ethnicity (REQUIRED)**  
*Definition:* Ethnicity of the subject, in the sense used by the US Census in which “Hispanic or Latino” is an ethnicity as opposed to a race. For clarification regarding ethnicity reporting requirement please see the following link: [http://www.whitehouse.gov/omb/rewrite/fedreg/ombdir15.html](http://www.whitehouse.gov/omb/rewrite/fedreg/ombdir15.html).  
*Format:* Yes (Y) / No (N)  
*Curation:* Must be one of the two allowed values: Y/N

6. **Race (REQUIRED)**  
*Definition:* The subject’s self-definition of their race from among the given choices. For clarification regarding race reporting requirements please see the following link: [http://www.whitehouse.gov/omb/rewrite/fedreg/ombdir15.html](http://www.whitehouse.gov/omb/rewrite/fedreg/ombdir15.html).  
*Format:* American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, Black or African American, White, (NA) Not Applicable  
*Curation:* Must be one or more of the six allowed values.  

*****REPEAT 6 if more than one race applies.******

7. **Sample_Identifier (REQUIRED)**  
*Definition:* Identifier assigned to each sample collected. If multiple samples are taken from the same host, each sample should have its own identifier.  
*Format:* Free form. Up to 50 characters of any combination of alphanumeric characters and special characters except: single quote, double quote, ampersand, hash (pound sign), forward slash, carriage returns, question mark, equal or plus signs, greater than or less than signs, percent and period. Leading and trailing spaces are also forbidden.  
*Curation:* No curation

8. **Collector_Name (REQUIRED)**  
*Definition:* The name of the person collecting the sample  
*Format:* Text (“Unknown” if name is not known)  
*Curation:* none

9. **Collector_Country (REQUIRED)**  
*Definition:* Country in which case was enrolled  
*Curation:* Must appear in NCBI country codes as above

10. **Collection_State (REQUIRED)**  
*Definition:* Full name of the state/providence in which case was enrolled
Format: Non-abbreviated form of the state or province or equivalent geopolitical unit.

Curation: Must be the non-abbreviated form of the state or province or equivalent geopolitical unit.

11. Collection_Date (REQUIRED if available)
Definition: Date on which the sample was collected from the patient. Some samples will be sent to the centers and not collected by the centers. Therefore, sometimes the laboratory will not have a collection date. If the collection date and received date are both available, then both should be reported in two separate fields. Either field #3 or #4 must be provided. Provide both #3 and #4 if available.
Format: (d)d-first 3 letters of month-yyyy or unknown
Curation: Leading 0 of dd need not be provided; years must have four digits; month must match the first three (3) letters of the month of the alphabet; checked for out-of-range dates. This ensures that there is no ambiguity with formats of dates from different regions of the world.

12. Receipt_Date (REQUIRED if available)
Definition: Date on which the field sample was received in the laboratory. Some samples will be sent to the centers and not collected by the centers. Therefore, there needs to be the option to choose either collection date or receipt date. If both dates are available, then both this field and #3 should be reported in two separate fields. Either field #3 or #4 must be provided. Provide both #3 and #4 if available.
Format: (d)d-first 3 letters of month-yyyy or unknown
Curation: Leading 0 of dd need not be provided; years must have four digits; month must match the first three (3) letters of the month of the alphabet; checked for out-of-range dates. This ensures that there is no ambiguity with formats of dates from different regions of the world.

13. Sample_Material  (REQUIRED)
Definition: Material on which the testing occurred.

Format:
- OP = oral-pharyngeal swab
- NS = Nasal swab
- TS = Tracheal swabs
- NTS = Combined nasal throat swab
- RS = Rectal swab
- B = Blood
- SR = serum
- TT = tissue from trachea
- TB = tissue from brain
- TO = other tissue
- F = feces
- L= lungs
- BAL = Bronchoalveolar lavage
- NL = Nasal lavage
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- S = Sputum
- LL = Lung lavage fluid
- O = other. Typed out text
- U = Unknown

_Curation_: Text. Can provide more detailed information through the other category. For example, O-spleen.

14. **Test_for_influenza_virus (REQUIRED)**

_Definition_: Method by which the CURRENT assessment of a sample as flu-positive/negative is made. If multiple tests were performed and the site prefers to report them all now, repeat fields 37-38. Further testing can be reported with the “viral isolate data” fields.

_Format_: Text/NT(Not tested)/NA

_Curation_: None

_Example_: RT-PCR, antigen ELISA, AGID or other flu test

15. **Influenza_test_result (REQUIRED)**

_Definition_: Classification of sample as flu positive or negative or unknown based on the test performed and reported in field #37.

_Format_: P/N/NT/NA

_Curation_: Must be one of the allowed values.

**REPEAT Fields #14-15 if multiple tests were performed and the site prefers to report them all now. Further testing can be reported with the “viral isolate data” fields.**

16. **Other_pathogens_tested (other than influenza) (REQUIRED)**

_Definition_: Classification of samples tested for organisms other than influenza virus such as RSV.

_Format_: Text/Not tested

_Curation_: None

17. **Other_pathogen_test_result (other than influenza) (REQUIRED)**

_Definition_: Classification of sample as positive or negative or unknown based on the test performed and reported in field #40.

_Format_: P/N/U/NT/NA

_Curation_: Must be one of the allowed values.

**REPEAT Fields #16-17 if multiple tests for other pathogens were performed.**

18. **Poultry_Exposure (REQUIRED)**

_Definition_: Subject exposed to poultry.

_Format_: Text, Y(es), N(0), Unknown

_Curation_: Must be one of the allowed values.

19. **Duration_of_Poultry_Exposure (OPTIONAL though must have some value)**

_Definition_: Duration that the subject was exposed to poultry in days.

_Format_: Number (2 days, 0.33 days) or NA or Unknown
Curation: no curation

20. Wild_Bird_Exposure (REQUIRED)
Definition: Subject exposed to wild birds.
Format: Text, Y(es), N(o), Unknown
Curation: Must be one of the allowed values.

21. Duration_of_Wild_Bird_Exposure (OPTIONAL though must have some value)
Definition: Duration that the subject was exposed to wild birds in days.
Format: Number (2 days, 0.33 days) or NA or Unknown
Curation: no curation

22. Swine_Exposure (REQUIRED)
Definition: Subject exposed to swine.
Format: Text, Y(es), N(o), Unknown
Curation: Must be one of the allowed values.

23. Duration_of_Swine_Exposure (OPTIONAL though must have some value)
Definition: Duration that the subject was exposed to swine in days.
Format: Number (2 days, 0.33 days) or NA or Unknown
Curation: no curation

24. Type_Exposure (REQUIRED))
Definition: Setting within which subject is exposed to animals.
Format: Text, Confined animal feeding operation/ large farms, Farm, Backyard flock, FP(Food preparation), S(laughterhouse), Other, Unknown
Curation: None

*****REPEAT 24 if more than one applies.*****

25. Human_Exposure (REQUIRED)
Definition: Subject exposed to other human cases confirmed to have influenza infection?
Format: Text, Y(es), N(o), Unknown
Curation: Must be one of the allowed values.

26. Duration_of_Human_Exposure (OPTIONAL though must have some value)
Definition: Duration that subject was exposed to other human cases confirmed to have influenza infection.
Format: Number (2 days, 0.33 days) or NA or Unknown
Curation: no curation

27. Use_of_Personal_Protective_Equipment (PPE) (OPTIONAL though must have some value)
Definition: Use of gowns, gloves, masks or other PPE during any type of exposure.
Format: Text (ex. gowns, gloves, masks) or NA or Unknown
Curation: no curation
28. Age (REQUIRED)
Definition: Age of the subject at the time of sample collection in whole number years if three or older. If less than three, submit in the format, 1 month/12 = 0.083 years or 35 months/12 = 2.91 years.
Format: Number
Curation: None

29. Pregnancy (REQUIRED)
Definition: The period from conception to birth when a woman carries a developing fetus in her uterus. Is the subject pregnant at the time of sampling?
Format: (Y)es/(N)o/Unknown.
Curation: Must be one of the three allowed values: Y/N/U

30. (if Pregnancy = Y then) Trimester_of_pregnancy (REQUIRED)
Definition: One of the three three-month periods into which human pregnancy is divided. This field will collect the trimester of pregnancy that the subject was in during sampling.
Format: (F)irst, (S)econd, (T)hird, Unknown, NA
Curation: Must be one of the four allowed values: F/S/T/U/NA

31. Hospitalized (REQUIRED)
Definition: Was the subject confined to a hospital as a result of influenza infection or problems occurring secondary to influenza virus infection?
Format: (Y)es/(N)o/Unknown/ NA.
Curation: Must be one of the allowed values

32. Hospitalization_Duration (OPTIONAL though must have some value)
Definition: Length of time subject was hospitalized in days.
Format: Number or NA or Unknown
Curation: None.

33. Intensive_Care_Unit (OPTIONAL though must have some value)
Definition: Was the subject confined to a ICU as a result of influenza infection or problems occurring secondary to influenza virus infection?
Format: Text, Y(es), N(o) or NA or Unknown
Curation: Must be one of the allowed values

34. Disease_Outcome (REQUIRED)
Definition: The resulting health of the subject after influenza infection.
Format: (R)ecovered, (RS)ecovered with sequelae, (D)ied, Unknown
Curation: Must be one of the allowed values: R/RS/D/U

35. Antiviral_Treatment (REQUIRED)
Definition: Influenza antiviral treatment used for this subject.
Format: text (ex. Zanamavir Oseltamivir, Amantadine, Rimantadine, Other(O-text), None, Unknown
36. Initiation_of_antiviral_treatment (OPTIONAL though must have some value)
   Definition: Initiation of antiviral treatment after onset of clinical symptoms in days.
   Format: Number of days (2, 0.33, etc.) or NA or Unknown
   Curation: no curation

37. Treatment_Dosage (OPTIONAL thought must have some value)
   Definition: Dosage that the patient took of the treatment.
   Format: (0.05 mg or ml) or NA or Unknown
   Curation: no curation

38. Duration_of_antiviral_treatment (OPTIONAL though must have some value)
   Definition: Duration of antiviral treatment after onset of clinical symptoms in days.
   Format: Number of days (2, 0.33, etc.) or NA or Unknown
   Curation: no curation

   *****REPEAT 35-38 if multiple treatments were administered.******

39. Influenza_Vaccination_Type (REQUIRED)
   Definition: Influenza vaccinations that have been administered over the last year.
   Format: text (ex. TIV, Flumist, 2009 H1N1, 2009 H1N1 Flumist, H5N1, Cannot recall type, None))
   Curation: no curation

40. Influenza_Vaccination_Date (REQUIRED)
   Definition: Date that the influenza vaccination was administered over the past year.
   Format: (dd)-first 3 letters of month-yyyy OR first 3 letters of month-yyyy OR “Unknown”

   Curation: Leading 0 of dd need not be provided; years must have four digits; month must match
   the first three (3) letters of the month; checked for out-of-range dates.

41. Source_of_above_Vaccine_Information (REQUIRED)
   Definition: Designation of information related to vaccine history as self reported or documented.
   Format: (SR) Self Reported/(D)ocumented/Unknown/ NA
   Curation: Must be one of the allowed values

42. Vaccine_Lot_Number (OPTIONAL though must have some value)
   Definition: Lot number of the vaccine.
   Format: text or NA or Unknown
   Curation: no curation

43. Vaccine_Manufacturer (OPTIONAL though must have some value)
   Definition: Manufacturer of the vaccine.
   Format: text or NA or Unknown
   Curation: no curation
44. **Vaccine_Dosage (OPTIONAL though must have some value)**

*Definition:* Dosage that the patient took of the vaccine.
*Format:* number (0.05 mL) or NA or Unknown
*Curation:* no curation

****REPEAT 39-44 if multiple vaccination types were administered****

45. **Influenza_like_Illness_at_the_time_of_sample_collection? (REQUIRED)**

*Definition:* Is the subject at the time of sample collection considered to be exhibiting influenza like illness? **IMPORTANT:** If the presence of ILI was not evident at the time of sampling the majority of the fields may be NA. Certain questions about the sample, exposure, etc. may still be relevant in a non-ILI patient. Generally, non-ILI patient records should ONLY be submitted to IRD if the serology has (or will) be determined, unless there is a rare influenza positive case where the patient reported no symptoms. For non-ILI patients, the “test for influenza virus” and “influenza test result” will likely be NA as well. Please consult NIAID for advice on how to handle other special case scenarios.
*Format:* (Y)es/(N)o/Unknown
*Curation:* Must be one of the three allowed values: Y/N/U

46. **Date_of_Illness_Onset (REQUIRED)**

*Definition:* Date subject showed an onset of symptoms.
*Format:* (d)d-first 3 letters of month-yyy OR first 3 letters of month-yyyy
*Curation:* Leading 0 of dd need not be provided; years must have four digits; month must match the first three (3) letters of the month of the alphabet; checked for out-of-range dates. This ensures that there is no ambiguity with formats of dates from different regions of the world.

47. **Duration_of_Illness (REQUIRED)**

*Definition:* How long the ILI lasted in days.
*Format:* Number or Unknown
*Curation:* no curation

48. **Fever (REQUIRED)**

*Definition:* Did the subject have a fever during the course of the illness? The clinician on site taking the temperature should determine the definition of a fever.
*Format:* (Y)es/(N)o/Unknown
*Curation:* Must be one of the allowed values

49. **Malaise (REQUIRED)**

*Definition:* Did the subject report feeling of general bodily discomfort, fatigue or unpleasantness, often at the onset of illness?
*Format:* (Y)es/(N)o/Unknown
*Curation:* Must be one of the allowed values:

50. **Myalgia (REQUIRED)**

*Definition:* Did the subject report pain in a muscle or group of muscles?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values:

51. Headache (REQUIRED)
Definition: Did the subject report pain or discomfort in the head or face area?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

52. Runny_Nose (REQUIRED)
Definition: Did the subject report an unusually significant amount of nasal fluid?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

53. Nausea (REQUIRED)
Definition: Did the subject report the feeling of wanting to vomit?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

54. Diarrhea (REQUIRED)
Definition: Did the subject report frequent and watery bowel movements?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

55. Sore_Throat (REQUIRED)
Definition: Did the subject report inflammation or discomfort of the throat or pharynx?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

56. Cough (REQUIRED)
Definition: Did the subject report sudden and often repetitively occurring defense reflex which helps to clear the large breathing passages from excess secretions, irritants, foreign particles and microbes?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

57. Shortness_of_Breath (REQUIRED)
Definition: Did the subject report abnormal difficulty in breathing?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the allowed values

58. Obesity (REQUIRED)
Definition: Having a high amount of body fat. A person is considered obese if he or she has a body mass index (BMI) of 30 or greater. Is the subject considered obese at the time of sampling?
Format: (Y)es/(N)o/Unknown
Curation: Must be one of the three allowed values: Y/N/U
OTHER OPTIONAL FIELDS

59. Asthma (OPTIONAL)
Definition: A respiratory disorder characterized by wheezing; usually of allergic origin. Did the subject have asthma at the time of sampling?
Format: Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N

60. Influenza_like_illness_over_the_past_year (OPTIONAL)
Definition: Did the subject have a medically documented influenza like illness over the past year prior to time of sampling?
Format: Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N

61. Human_leukocyte_antigens (OPTIONAL)
Definition: Genetic markers found on all cells of the body that determine white blood cell types. HLA tissue types are used to match donated organs or bone marrow with transplant recipients. Report results of HLA testing.
Format: Text
Curation: no curation

62. Allergies (OPTIONAL)
Definition: An inappropriate and harmful response of the immune system to normally harmless substances. Did the subject have allergies at the time of sampling?
Format: Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N

63. (if Allergies = Y then) Types_Of_Allergies (OPTIONAL)
Definition: List of all types of allergies of the subject, whether the immune reaction is related to foods, drugs, or the environment.
Format: Text (“Unknown” if types are not known)

64. Respiratory_Disease (OPTIONAL)
Definition: Disease caused by emphysema, a cold, asthma, disorder of the nasal cavity, larynx, lungs, trachea, bronchi, bronchioles, alveoli, or COPD. Did the subject have respiratory disease at the time of sampling?
Format: Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N
65. Cardiovascular_Disease (OPTIONAL)

Definition: Generic term that covers a wide range of heart and blood vessel disorders. Did the subject have cardiovascular disease at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

66. Urogenital_Disease (OPTIONAL)

Definition: Urologic disease can involve congenital or acquired dysfunction of the urinary system to include the kidneys, ureters, bladder, urethra, ovaries, uterus, vagina, or penis. Did the subject have urogenital disease at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

67. Hepatobiliary_Disease (OPTIONAL)

Definition: Of, pertaining to, or originating in the liver, bile ducts and gallbladder. Did the subject have hepatobiliary disease at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

68. Pancreatic_Disease (OPTIONAL)

Definition: This term applies to many diseases and disorders that cause the pancreas to function improperly or cease functioning, to include diabetes mellitus. Did the subject have pancreatic disease at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

69. Neurologic_Disease (OPTIONAL)

Definition: A disturbance in the structure or function of the nervous system resulting from developmental abnormality, disease, injury or toxin. Did the subject have neurologic disease at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

70. Musculoskeletal_Disease (OPTIONAL)

Definition: Any disease or disorder of the muscles or bones. Did the subject have musculoskeletal disorder at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N

71. Dermatologic_Disease (OPTIONAL)

Definition: Disorder of or relating to the skin including: infections, inflammatory conditions, ulcers, tumors (benign or malignant), scaling diseases and disorders of nails and/or hair. Did the subject have dermatologic disorder at the time of sampling?

Format: Text, Y(es), N(o)

Curation: Must be one of the allowed values: Y/N
72. **Digestive System Disease (OPTIONAL)**
*Definition:* All diseases that pertain to the gastrointestinal tract are labeled as digestive diseases, including diseases of the mouth, pharynx, esophagus, stomach, large intestine, and small intestine. Did the subject have digestive system disease at the time of sampling?
*Format:* Text, Y(es), N(o)
*Curation:* Must be one of the allowed values: Y/N

73. **Endocrine-Metabolic Disorder (OPTIONAL)**
*Definition:* Pertaining to hormones and the glands that make and secrete them into the bloodstream through which they travel to affect distant organs, including the pituitary, thyroid, parathyroid, adrenals, and gonads. Did the subject have endocrine-metabolic disorder at the time of sampling?
*Format:* Text, Y(es), N(o)
*Curation:* Must be one of the allowed values: Y/N

74. **Hematological Disease (OPTIONAL)**
*Definition:* Involving the blood, blood-forming organs, or blood diseases. Did the subject have hematological disease at the time of sampling?
*Format:* Text, Y(es), N(o)
*Curation:* Must be one of the allowed values: Y/N

75. **Cancer (OPTIONAL)**
*Definition:* Any malignant growth or tumor caused by abnormal and uncontrolled cell division; it may spread to other parts of the body through the lymphatic system. Did the subject have cancer at the time of sampling?
*Format:* Text, Y(es), N(o)
*Curation:* Must be one of the allowed values: Y/N

76. **Immunosuppression (OPTIONAL)**
*Definition:* The condition in which the patient’s immune system is functioning at a lower than normal level due to age, disease, medications, etc. Was the subject immunosuppressed at the time of sampling?
*Format:* Text, Y(es), N(o)
*Curation:* Must be one of the allowed values: Y/N

77. **Autoimmune Disorder (OPTIONAL)**
*Definition:* Any of a large group of diseases characterized by abnormal functioning of the immune system that causes your immune system to produce auto-reactive antibodies and/or T cells. Did the subject have a known autoimmune disorder at the time of sampling?
*Format:* Text, Y(es), N(o), U(unknown)
*Curation:* Must be one of the allowed values: Y/N/U

78. **Other Symptoms (OPTIONAL)**
*Definition:* Did the subject have any other symptoms that should be reported?
*Format:* (Y)es/(N)o/
*Curation:* Must be one of the allowed values.
79. **List_Symptoms (OPTIONAL)**  
*Definition:* If #28 is yes, list other symptoms.  
*Format:* NA, Unknown, or free text  
*Curation:* none  
*Curation:* no curation

80. **Loss_of_Appetite (OPTIONAL)**  
*Definition:* Did the subject have a loss of appetite at the time of sampling?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

81. **Vomiting (OPTIONAL)**  
*Definition:* The reflex act of ejecting the contents of the stomach through the mouth. Did the subject report vomiting?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

82. **Chills (OPTIONAL)**  
*Definition:* Did the subject report a feeling of being cold?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

83. **Wheezing (OPTIONAL)**  
*Definition:* Did the subject report abnormal continuous, coarse, whistling sounds produced in the respiratory airways during breathing?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

84. **Conjunctivitis (OPTIONAL)**  
*Definition:* An inflammation of the conjunctiva of the eye. Did the subject have conjunctivitis at the time of sampling?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

85. **Breastfeeding (OPTIONAL)**  
*Definition:* The activity of feeding a baby or young child milk from the breast of a lactating woman. Was the subject breastfeeding at the time of sampling?  
*Format:* Text, Y(es), N(o)  
*Curation:* Must be one of the allowed values: Y/N

86. **Alcohol_or_Other_Drug_Dependency (OPTIONAL)**  
*Definition:* When an individual persists in use of alcohol or other drugs despite problems related to use of the substance, **substance dependence** may be diagnosed. Was the subject dependent on alcohol or other drugs at the time of sampling?  
*Format:* Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N

87. Tobacco_Use (OPTIONAL)
Definition: Regular use of any form of tobacco. Did the patient regularly use any form of tobacco?
Format: Text, Y(es), N(o)
Curation: Must be one of the allowed values: Y/N

88. (if Tobacco_Use = Y then) Packs_per_day_for_how_many_years (OPTIONAL)
Definition: Approximate packs of cigarettes or smokeless tobacco that the subject uses per day over the course of how many years.
Format: 1 pack/day for 10 years, (U)nknown, NA(Not Applicable)
Curation: None

89. Travel_History (OPTIONAL)
Definition: List all subject travel destinations over the past month.
Format: text OR unknown
Curation: no curation

90. Primary_living_situation (OPTIONAL)
Definition: Brief description of the patients living scenario.
Format: Text (ex. Family home, Apartment building, Dormitory/other group living, Long term care or residential facility, Homeless, Unknown)
Curation: no curation.

91. Profession (OPTIONAL)
Definition: Short description of the profession of the subject.
Format: text (ex. Nurse, Physician, Teacher, Farmer, Unknown)
Curation: no curation

92. Education (OPTIONAL)
Definition: Short description of the education level of the subject.
Format: Illiterate, Some elementary school, Completed elementary school, Elementary ed. not specified, Some high school, Completed high school, High school ed. not specified, Some higher education, Completed higher education, Higher ed. not specified, Some technical school, Completed technical school, Technical education not specified, Unknown, Other (O-text)
Curation: Must be one of the allowed values or O-text