

VERSION: The Final Foodborne and Diarrheal Disease (FDD) Case Notification message mapping guide (MMG) version 1.0, dated 11/13/2018.

This artifact is considered to be a technical document. Please contact edx@cdc.gov for assistance with this artifact.

The Foodborne and Diarrheal Disease (FDD) Case Notification MMG describes the content and message mapping specifications for the set of data elements used to communicate information to meet the requirements for Foodborne and Diarrheal Disease (FDD) Case Notifications to the Centers for Disease Control (CDC).

The Foodborne and Diarrheal Disease (FDD) Case Notification MMG v1 needs to be used in conjunction with Generic Individual Case Notification MMG v2 to construct a complete case notification message for nationally notifiable diseases and conditions with disease-specific data elements.

The intended audiences for this document are the state/local health departments, CDC programs and other public health-related organizations interested in using the HL7 V2.5.1 case notification message specification for transmitting their data elements to CDC.

The Foodborne and Diarrheal Disease (FDD) Case Notification MMG describes the content and message mapping specifications for the set of data elements used to communicate information to meet the requirements for Foodborne and Diarrheal Disease (FDD) Case Notification.

References

Annual National Notifiable Disease Surveillance System Event Code List for the relevant year; Centers for Disease Control and Prevention; Office of Public Health Scientific Services; Center for Surveillance, Epidemiology and Laboratory Services; Division of Health Informatics and Surveillance

PHIN Messaging Guide for Case Notification Reporting, Version 3.0, current release on this page: <https://wwwn.cdc.gov/nndss/case-notification/related-documentation.html>; Centers for Disease Control and Prevention; Office of Public Health Scientific Services; Center for Surveillance, Epidemiology and Laboratory Services; Division of Health Informatics and Surveillance.

Note about Implementation of FoodNet Programs vs Foodborne Programs:

In order to accommodate the 10 Nationally Notifiable Conditions and 13 Pathogens reported for FoodNet Programs and Foodborne Programs, it requires that multiple artifacts be combined in a template manner.

FoodNet States will use data elements from:

FoodNet STEC: Generic v2 MMG + FoodNet + STEC + [Optional Lab Template]
FoodNet Salmonellosis: Generic v2 MMG + FoodNet + Salmonellosis + [Optional Lab Template]
FoodNet Shigellosis: Generic v2 MMG + FoodNet + Shigellosis + [Optional Lab Template]
FoodNet Campylobacteriosis: Generic v2 MMG + FoodNet + Campylobacteriosis + [Optional Lab Template]
FoodNet Cryptosporidiosis: Generic v2 MMG + FoodNet + Cryptosporidiosis + [Optional Lab Template]
FoodNet Cyclosporiasis: Generic v2 MMG + FoodNet + Cyclosporiasis + [Optional Lab Template]
FoodNet Cholera/Vibriosis: Generic v2 MMG + FoodNet + Cholera and Vibriosis + [Optional Lab Template]
FoodNet S. Typhi and S. Paratyphi Infection: Generic v2 MMG + FoodNet + Typhoid and Paratyphoid + [Optional Lab Template]
FoodNet Yersinia: Generic v2 MMG + FoodNet + [Optional Lab Template]
FoodNet HUS: Generic v2 MMG + FoodNet + [Optional Lab Template]
FoodNet Listeria: Generic v2 MMG + FoodNet + [Optional Lab Template]
FoodNet ETEC: Generic v2 MMG + FoodNet + [Optional Lab Template]

Non-FoodNet States will use data elements from:

STEC: Generic v2 MMG + STEC + [Optional Lab Template]
Salmonellosis: Generic v2 MMG + Salmonellosis + [Optional Lab Template]
Shigellosis: Generic v2 MMG + Shigellosis + [Optional Lab Template]
Campylobacteriosis: Generic v2 MMG + Campylobacteriosis + [Optional Lab Template]
Cryptosporidiosis: Generic v2 MMG + Cryptosporidiosis + [Optional Lab Template]
Cyclosporiasis: Generic v2 MMG + Cyclosporiasis + [Optional Lab Template]
Cholera/Vibriosis: Generic v2 MMG + Cholera and Vibriosis + [Optional Lab Template]
S. Typhi and S. Paratyphi Infection: Generic v2 MMG + Typhoid and Paratyphoid + [Optional Lab Template]

Notes about specific sections in the MMG:

All of the epidemiology information maps under the required OBR segment that contains the value '68991-9^Epidemiologic Information^LN' in OBR-4.

Associated laboratory information, as may be available from an electronic laboratory reporting (ELR) feed or paper feed, maps under an OBR segment that contains the value '30954-2^Laboratory Information^LN' in OBR-4. This OBR-4 value is the trigger to parse the OBX segment in an ELR-like manner.

Note about Repeating Questions on the Data Elements worksheet

NOTE: This group repeats for any concepts related to the assigned value set that are collected for the condition reported.

Additional Notes:

In the HL7 case notification messages, reporting jurisdictions should send all data elements included in the message mapping guides that are currently collected within their surveillance information systems. If reporting jurisdictions are not currently collecting all the data elements in the MMG, they are encouraged to incorporate the missing data elements into their surveillance systems as they make system updates.

The MMG may further constrain the PHIN Messaging Specification for Case Notification, Version 3.0, current release for various elements. Please refer to the columns entitled HL7 Message Context, HL7 Data Type, HL7 Usage, HL7 Cardinality and HL7 Implementation Notes in the Data Elements Tab for additional information. Senders must use the PHIN Messaging Guide and the MMG together to construct a valid HL7 message.

For data elements identified by a CDC program as needing a clear differentiation between "unknown" and "missing" values, guidance within the message mapping guides describes how this information should be conveyed in the HL7 case notification message.

Jurisdictions should promptly report provisional case notifications to CDC. HL7 case notification messages can be updated when the final case classification status is determined and / or additional surveillance information becomes available. The HL7 case notification message should be sent as soon as the confirmation method is complete along with the corresponding results. Please note that not all of the data elements in the message may be available and ready for transmission to CDC at the completion of the confirmation method; however, updates to the HL7 case notification message are accepted until the reconciliation and closeout period.

Any data elements marked "proposed" in MMGs are awaiting Office of Management and Budget Paperwork Reduction Act (OMB PRA) approval. CDC cannot ask reporting jurisdictions to send data for proposed data elements. If reporting jurisdictions want to set up their systems just once to send all data elements in the HL7 message (and thus not need to go back and add proposed data elements to the HL7 message at a later date after CDC receives OMB PRA approval), CDC will accept the proposed data elements into the data warehouse, but will not be able to use the data until we receive OMB PRA approval.

| Column | Description |
|-------------------------------------|---|
| Data Element Column Headings | |
| PHIN Variable | PHIN data element identifier |
| PHIN Variable Code System | Code system from which the PHIN data element identifier is drawn (e.g. PHINQUESTION, LOINC, CDCPHINVS, SNOMED-CT) |
| Data Element (DE) Name | Short name for the data element, which is passed in the message |
| DE Identifier Sent in HL7 Message | Data Element Identifier to be sent in HL7 message |
| DE Code System | Code system from which the data element identifier is drawn (e.g. PHINQUESTION, LOINC, CDCPHINVS, SNOMED-CT). This reference is sent in the message for those observations that map as CE (Coded Element) or CWE (Coded With Exceptions) datatypes in the message. |
| Data Element Description | Description of the data element. It may not match exactly with the description in PHIN VADS, because there may be local variations of the description that do not change the basic concept being mapped to the PHIN Variable. |
| Data Type | Data type for the variable response expected by the program area. Data Types are Coded, Numeric, Date or Date/time, and Text. |
| CDC Priority | Indicates whether the program specifies the field as: R - Required - This data element is mandatory for sending a message. If the required data element is not present, the message will be rejected. The required data elements alone are not sufficient for national surveillance purposes. P - Preferred - This data element is needed for national surveillance and it is expected that this data element will be sent to CDC. If a preferred data element is not currently being collected, jurisdictions should plan to include the data element when updating their surveillance system. O - Optional - This data element provides useful information for national surveillance, but has a lower level of importance to CDC than a preferred data element. If an optional data element is currently being collected, jurisdictions are encouraged to send the data to CDC. |
| May Repeat | Indicates whether the response to the data element may repeat (multi-select/select all that apply). "Y" indicates that the field may repeat. If the response does not repeat, the field is not populated or contains "N". When a data element repeats, the values are sent in the same field with the instances separated by a tilde (~). Data elements that repeat require special processing. |
| Value Set Name (VADS Hyperlink) | Hyperlink to the value set in the Public Health Information Network Vocabulary Access and Distribution Services (PHIN VADS). |
| Value Set Code | Code for the pre-coordinated value set in PHIN VADS from which the response is obtained. The value sets and coding systems are accessible through the PHIN VADS. To obtain the valid code set and coding systems, complete the following steps: 1. Go to http://phinvads.cdc.gov . 2. Click on the Views hyperlink. 3. Enter the name of the condition in the lookup box and select the Search Views button. Or, browse all views for a condition. 4. Click on Details next to obtain the valid code set. |

| HL7 Message Mapping Methodology Column Headings | |
|---|--|
| HL7 Message Context | Specific HL7 segment and field mapping for the element |
| HL7 Data Type | HL7 data type used by PHIN to express the variable. Examples of data types expected are CWE, SN, TS, DT, ST, TX, XPN, XON, or XAD, depending on the type of data being passed. The specific HL7 datatype allowed in the field is consistent with the HL7 2.5.1 Standard for this message. |
| HL7 Usage | Indicates if the field is required, optional, or conditional in a segment. The only values that appear in the Message Mapping are: R – Required. Must always be populated. RE - Required but may be Empty. This variable indicates that the message receiver must be prepared to process the variable, but it may be absent from a particular message instance. O – Optional. May optionally be populated. |
| HL7 Cardinality | Cardinality identifies the minimum and maximum number of repetitions for a particular field. When a field repeats, the values are sent in the same field with the instances separated by the tilde (~). Examples: [1..1] means that the field is required and will not repeat. [0..1] means that the field is optional and will not repeat if it is present. [0..*] means the field is optional and may repeat an unlimited number of times. Cardinality is at the field level and does not indicate whether the data element is part of a repeating group. |
| HL7 Implementation Notes | Related implementation comments |
| Repeating Group Element | This column describes whether the data element is part of a repeating group. The PRIMARY/PARENT observation is marked to serve as the anchor for the repeating group, and must be present for the group to process correctly. The CHILD notation denotes that the variable is a child observation in the repeating group and must have the same OBX-4 Observation Sub-id value as the PRIMARY/PARENT observation to be considered in the same group. YES indicates that this variable is considered to be part of a repeating group, but the PARENT/CHILD relationship does not apply to the elements in the repeating group. NO indicates that this variable is not considered part of a repeating group and will not be processed as such. |
| Sample Segment | Sample segment to provide guidance on how this data element is conveyed in a message. |

| PHIN Variable | PHIN Variable Code System | Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System |
|---------------|---------------------------|----------------------------|-----------------------------------|----------------|
| NOT115 | PHINQUESTION | Message Profile Identifier | N/A: MSH-21 | N/A |

Subject Related

| | | | | |
|--------|--------------|------------------|------------|-----|
| DEM197 | PHINQUESTION | Local Subject ID | N/A: PID-3 | N/A |
| DEM115 | PHINQUESTION | Birth Date | N/A: PID-7 | N/A |
| DEM113 | PHINQUESTION | Subject's Sex | N/A: PID-8 | N/A |

| | | | | |
|--------|--------------|----------------------------|-------------|-----|
| DEM152 | PHINQUESTION | Race Category | N/A: PID-10 | N/A |
| DEM154 | PHINQUESTION | Other Race Text | 32624-9 | LN |
| DEM155 | PHINQUESTION | Ethnic Group | N/A: PID-22 | N/A |
| DEM126 | PHINQUESTION | Country of Birth | 78746-5 | LN |
| DEM304 | PHINQUESTION | Other Birth Place | 21842-0 | LN |
| INV501 | PHINQUESTION | Country of Usual Residence | 77983-5 | LN |

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|--------|--------------|--------------------------|---------------|-----|
| DEM165 | PHINQUESTION | Subject Address County | N/A: PID-11.9 | N/A |
| DEM162 | PHINQUESTION | Subject Address State | N/A: PID-11.4 | N/A |
| DEM163 | PHINQUESTION | Subject Address ZIP Code | N/A: PID-11.5 | N/A |

Case Related

| | | | | |
|--------|--------------|------------------------|------------|-----|
| INV137 | PHINQUESTION | Date of Illness Onset | 11368-8 | LN |
| INV138 | PHINQUESTION | Illness End Date | 77976-9 | LN |
| INV139 | PHINQUESTION | Illness Duration | 77977-7 | LN |
| INV140 | PHINQUESTION | Illness Duration Units | N/A: OBX-6 | N/A |
| INV178 | PHINQUESTION | Pregnancy Status | 77996-7 | LN |
| INV136 | PHINQUESTION | Diagnosis Date | 77975-1 | LN |

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|--------|--------------|--------------------------------------|-------------|-----|
| INV128 | PHINQUESTION | Hospitalized | 77974-4 | LN |
| INV132 | PHINQUESTION | Admission Date | 8656-1 | LN |
| INV133 | PHINQUESTION | Discharge Date | 8649-6 | LN |
| INV134 | PHINQUESTION | Duration of Hospital Stay in Days | 78033-8 | LN |
| INV145 | PHINQUESTION | Subject Died | 77978-5 | LN |
| INV146 | PHINQUESTION | Deceased Date | N/A: PID-29 | N/A |
| INV169 | PHINQUESTION | Condition Code | N/A: OBR-31 | N/A |

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|---------|--------------|---------------------------|------------|-----|
| INV168 | PHINQUESTION | Local Record ID | N/A: OBR-3 | N/A |
| INV173 | PHINQUESTION | State Case Identifier | 77993-4 | LN |
| INV200 | PHINQUESTION | Legacy Case Identifier | 77997-5 | LN |
| INV2001 | PHINQUESTION | Age at Case Investigation | 77998-3 | LN |

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|---------|--------------|--------------------------------|------------|--------------|
| INV2002 | PHINQUESTION | Age Unit at Case Investigation | N/A: OBX-6 | N/A |
| INV152 | PHINQUESTION | Case Disease Imported Code | 77982-7 | LN |
| INV153 | PHINQUESTION | Imported Country | INV153 | PHINQUESTION |
| INV154 | PHINQUESTION | Imported State | INV154 | PHINQUESTION |
| INV155 | PHINQUESTION | Imported City | INV155 | PHINQUESTION |
| INV156 | PHINQUESTION | Imported County | INV156 | PHINQUESTION |

Repeating Variables for Disease Exposure

| | | | | |
|--------|--------------|---------------------|---------|----|
| INV502 | PHINQUESTION | Country of Exposure | 77984-3 | LN |
|--------|--------------|---------------------|---------|----|

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|--|--------------|-------------------------------|---------|----|
| INV503 | PHINQUESTION | State or Province of Exposure | 77985-0 | LN |
| INV504 | PHINQUESTION | City of Exposure | 77986-8 | LN |
| INV505 | PHINQUESTION | County of Exposure | 77987-6 | LN |
| End of Repeating Variables for Disease Exposure | | | | |
| INV157 | PHINQUESTION | Transmission Mode | 77989-2 | LN |
| INV163 | PHINQUESTION | Case Class Status Code | 77990-0 | LN |

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|--------|--------------|---|-------------|-----|
| NOT120 | PHINQUESTION | Immediate National Notifiable Condition | 77965-2 | LN |
| INV150 | PHINQUESTION | Case Outbreak Indicator | 77980-1 | LN |
| INV151 | PHINQUESTION | Case Outbreak Name | 77981-9 | LN |
| NOT118 | PHINQUESTION | Notification Result Status | N/A: OBR-25 | N/A |
| INV107 | PHINQUESTION | Jurisdiction Code | 77969-4 | LN |
| INV112 | PHINQUESTION | Reporting Source Type Code | 48766-0 | LN |
| INV118 | PHINQUESTION | Reporting Source ZIP Code | 52831-5 | LN |
| INV515 | PHINQUESTION | Binational Reporting Criteria | 77988-4 | LN |

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|--------|--------------|---|------------|-----|
| INV190 | PHINQUESTION | Person Reporting to CDC - Name | 74549-7 | LN |
| INV191 | PHINQUESTION | Person Reporting to CDC - Phone Number | 74548-9 | LN |
| INV193 | PHINQUESTION | Person Reporting to CDC - Email | 74547-1 | LN |
| INV147 | PHINQUESTION | Case Investigation Start Date | 77979-3 | LN |
| NOT103 | PHINQUESTION | Date First Electronically Submitted | N/A: OBR-7 | N/A |

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|--------|--------------|---|-------------|-----|
| NOT106 | PHINQUESTION | Date of Electronic Case Notification to CDC | N/A: OBR-22 | N/A |
| INV111 | PHINQUESTION | Date Reported | 77995-9 | LN |
| INV120 | PHINQUESTION | Earliest Date Reported to County | 77972-8 | LN |
| INV121 | PHINQUESTION | Earliest Date Reported to State | 77973-6 | LN |
| INV165 | PHINQUESTION | MMWR Week | 77991-8 | LN |
| INV166 | PHINQUESTION | MMWR Year | 77992-6 | LN |
| INV176 | PHINQUESTION | Date CDC Was First Verbally Notified of This Case | 77994-2 | LN |
| INV177 | PHINQUESTION | Date First Reported to PHD | 77970-2 | LN |
| NOT109 | PHINQUESTION | Reporting State | 77966-0 | LN |

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|--------|--------------|------------------------------------|---------|----|
| NOT113 | PHINQUESTION | Reporting County | 77967-8 | LN |
| NOT116 | PHINQUESTION | National Reporting Jurisdiction | 77968-6 | LN |
| INV886 | PHINQUESTION | Comment | 77999-1 | LN |

| Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) |
|---|-----------|--------------|------------|---------------------------------|
| <p>Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace.</p> | Text | R | Y/2 | |
| The local ID of the subject/entity | Text | R | N | |
| Patient's date of birth | Date | P | N | |
| Subject's current sex | Coded | P | N | Sex (MFU) |

| | | | | |
|---|-------|---|---|---|
| Race category - Major OMB Race Categories. Detailed race information would be rolled up to these major OMB race categories. | Coded | P | Y | Race Category including I |
| Other Race Text | Text | O | N | |
| Based on the self-identity of the subject as Hispanic or Latino | Coded | P | N | Ethnicity Group including |
| Country of Birth | Coded | P | N | Birth Country |
| Other Birth Place | Text | O | N | |
| Where does the person usually live (defined as their residence). This variable replaces the Foreign Resident variable mentioned in 11-SI-04 titled "Revised Guidelines for Determining Residency for Disease Reporting" located at http://c.ymcdn.com/sites/www.cste.org/resource/resmgr/PS/11-SI-04.pdf . Cases with country of usual residence equal to the US, Puerto Rico, and US Virgin Islands as well as unknown and null responses will be included in the state-specific counts and rates. | Coded | P | N | Country |

| | | | | |
|---|---------|---|---|--------------------------------------|
| County of residence of the subject | Coded | P | N | County |
| State of residence of the subject | Coded | O | N | State |
| ZIP Code of residence of the subject | Text | O | N | |
| | | | | |
| Date of the beginning of the illness. Reported date of the onset of symptoms of the condition being reported to the public health system. | Date | P | N | |
| Date at which the disease or condition ends. | Date | O | N | |
| Length of time this subject had this disease or condition. | Numeric | O | N | |
| Unit of time used to describe the length of the illness or condition. | Coded | O | N | Duration unit |
| Indicates whether the subject was pregnant at the time of the event. | Coded | O | N | Yes No Unknown (YNU) |
| Earliest date of diagnosis (clinical or laboratory) of condition being reported to public health system. | Date | P | N | |

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|--|---------|---|---|--------------------------------------|
| Was subject hospitalized because of this event? | Coded | O | N | Yes No Unknown (YNU) |
| Subject's most recent admission date to the hospital for the condition covered by the investigation. | Date | O | N | |
| Subject's most recent discharge date from the hospital for the condition covered by the investigation. | Date | O | N | |
| Subject's duration of stay at the hospital for the condition covered by the investigation. | Numeric | O | N | |
| Did the subject die from this illness or complications of this illness? | Coded | P | N | Yes No Unknown (YNU) |
| If the subject died from this illness or complications associated with this illness, indicate the date of death. | Date | P | N | |
| Condition or event that constitutes the reason the notification is being sent. | Coded | R | N | N/A |

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|---|---------|---|---|--|
| <p>Sending system-assigned local ID of the case investigation with which the subject is associated.</p> | Text | R | N | |
| <p>States use this identifier to link NEDSS investigations back to their own state investigations.</p> | Text | O | N | |
| <p>CDC uses this identifier to link current case notifications to case notifications submitted by a previous system (NETSS, STD-MIS, etc.). If migrating between systems, incorporate the original Local Record ID (INV168 in OBR-3) into the Legacy Case Identifier (77997-5) field in the new system.</p> | Text | P | N | |
| <p>Subject age at time of case investigation</p> | Numeric | P | N | |

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|---|-------|---|---|---|
| Subject age unit at time of case investigation | Coded | P | N | Age Unit |
| Indication of where the disease/condition was likely acquired. | Coded | P | N | Disease Acquired Jurisdiction |
| If the disease or condition was imported, indicates the country in which the disease was likely acquired. | Coded | P | N | Country |
| If the disease or condition was imported, indicates the state in which the disease was likely acquired. | Coded | P | N | State |
| If the disease or condition was imported, indicates the city in which the disease was likely acquired. | Coded | P | N | City |
| If the disease or condition was imported, contains the county of origin of the disease or condition. | Coded | O | N | County |
| | | | | |
| Indicates the country in which the disease was likely acquired. | Coded | P | N | Country |

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|--|-------|---|---|--|
| <p>Indicates the state (or Province) in which the disease was likely acquired.</p> <p>Note: If Country of exposure was US, populate with US State. If Country of exposure was Mexico, populate with Mexican State. If country of exposure was Canada, populated with Canadian Province. For all other countries, leave null.</p> | Coded | P | N | State or Province of Expo |
| <p>Indicates the city in which the disease was likely acquired</p> <p>Note: If country of exposure is US, populate with US city. For all other cities, can be populated but not required.</p> | Text | P | N | |
| <p>Indicates the county in which the disease was likely acquired</p> <p>Note: If country of exposure is US, populate with US county. Otherwise, leave null.</p> | Text | P | N | |
| | | | | |
| <p>Code for the mechanism by which disease or condition was acquired by the subject of the investigation.</p> | Coded | O | N | Case Transmission Mode |
| <p>Status of the case/event as suspect, probable, confirmed, or not a case per CSTE/CDC/ surveillance case definitions.</p> | Coded | R | N | Case Classification Status |

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|--|-------|---|---|--|
| Does this case meet the criteria for immediate (extremely urgent or urgent) notification to CDC? Refer to the 2015 list of NNC by type of notification category (extremely urgent, urgent, and standard) at the following link: http://wwwn.cdc.gov/nndss/document/NNC_2015_Notification_Requirements_By_Category.pdf | Coded | P | N | Yes No Unknown (YNU) |
| Denotes whether the reported case was associated with an identified outbreak. | Coded | P | N | Yes No Unknown (YNU) |
| A state-assigned name for an identified outbreak. | Text | P | N | |
| Status of the notification | Coded | R | N | Result Status (NND) |
| Identifier for the physical site from which the notification is being submitted. | Text | O | N | |
| Type of facility or provider associated with the source of information sent to Public Health. | Coded | O | N | Reporting Source Type |
| ZIP Code of the reporting source for this case. | Text | O | N | |
| For cases meeting the binational criteria, select all the criteria which are met. | Coded | P | Y | Binational Reporting Crite |

| | | | | |
|---|-----------|---|---|--|
| Name of the person who is reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification. | Text | P | N | |
| Phone Number of the person who is reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification. | Text | P | N | |
| Email Address of the person reporting the case to the CDC. This is the person that CDC should contact in a state if there are questions regarding this case notification. | Text | P | N | |
| The date the case investigation was initiated. | Date | O | N | |
| Date/time the notification was first electronically sent to CDC. This value does not change after the original notification. | Date/time | R | N | |

| | | | | |
|---|-----------|---|---|-----------------------|
| Date/time this version of the electronic case notification was sent. It will be the same value as NOT103 for the original notification. For updates, this is the update/send date/time. | Date/time | R | N | |
| Date that a health department first suspected the subject might have the condition. | Date | P | N | |
| Earliest date reported to county public health system. | Date | O | N | |
| Earliest date reported to state public health system. | Date | P | N | |
| MMWR Week for which case information is to be counted for MMWR publication. | Numeric | R | N | |
| MMWR Year (YYYY) for which case information is to be counted for MMWR publication. | Date | R | N | |
| Date the case of an Immediately Notifiable Condition was first verbally reported to the CDC Emergency Operation Center or the CDC Subject Matter Expert responsible for this condition. | Date | P | N | |
| Date the report was first sent to the public health department (local, county or state) by reporter (physician, lab, etc.). | Date | P | N | |
| State reporting the notification | Coded | R | N | State |

| | | | | |
|--|-------|---|---|---|
| County reporting the notification | Coded | P | N | County |
| National jurisdiction reporting the notification to CDC | Coded | R | N | National Reporting Jurisd |
| <p>Use this field, if needed, to communicate anything unusual about this case, which is not already covered with the other data elements.</p> <p>Do not send personally identifiable information to CDC in this field.</p> | Text | O | N | |

| Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes |
|----------------|-------------------------------|---------------|-----------|-----------------|--|
| | MSH-21 Message Profile ID | EI | R | [2..2] | <p>CONFORMANCE STATEMENT: Message Profile ID (MSH-21) for this version of the MMG SHALL contain the literal value: 'NOTF_ORU_v3.0^PHINProfileID^2.16.840.1.114222.4.10.3^ISO~Generic_MMG_V2.0^PHINMsgMapID^2.16.840.1.114222.4.10.4^ISO'</p> <p>Refer to Conformance Statement CN-009 and CN-010 in the PHIN Messaging Guide for Case Notification Reporting, Version 3.0, Release 1.</p> |
| | PID-3 Patient Identifier List | CX | R | [1..1] | <p>PID-3.1 ID Number is the local Subject ID from the sending system's internally assigned Subject ID;</p> <p>PID-3.4 Assigning Authority format <localID&OID&ISO></p> <p>Does not pass Variable ID or label.</p> |
| | PID-7 Date/Time of Birth | TS | RE | [0..1] | For unknown date, PID-7 MAY be populated with '99999999' |
| PHVS_Sex_MFU | PID-8 Administrative Sex | IS | RE | [0..1] | |

| | | | | | |
|--------------------------------------|---|-----|----|--------|--|
| PHVS_RaceCategory_C DC_NullFlavor | PID-10 Race | CE | RE | [0..*] | |
| | OBX segment with OBX-3.1=32624-9 OBX-5=string up to 199 characters | ST | O | [0..1] | |
| PHVS_EthnicityGroup_C DC_Unk | PID-22 Ethnic Group | CE | RE | [0..1] | |
| PHVS_BirthCountry_CD C | OBX segment with OBX-3.1=78746-5 OBX-5=Value from value Set | CWE | RE | [0..1] | |
| | OBX segment with OBX-3.1=21842-0 OBX-5=string up to 199 characters | ST | O | [0..1] | |
| PHVS_Country_ISO_31 66-1 | OBX segment with OBX-3.1=77983-5 OBX-5=Value from value Set | CWE | RE | [0..1] | |

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|---------------------------|--|-----|----|--------|---|
| PHVS_County_FIPS_6-4 | PID-11.9 Patient Address - County | IS | RE | [0..1] | The entire address construct (PID-11) may repeat per HL7, but only expecting the first instance to be populated and parsed. Address county will be used in the annual summary and it needs to be populated |
| PHVS_State_FIPS_5-2 | PID-11.4 Patient Address - State=value from value set | ST | RE | [0..1] | The entire address construct (PID-11) may repeat per HL7, but only expecting the first instance to be populated and parsed. |
| | PID-11.5 Patient Address - Postal Code=string up to 12 characters | ST | RE | [0..1] | The entire address construct (PID-11) may repeat per HL7, but only expecting the first instance to be populated and parsed. |
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| | OBX segment with OBX-3.1=11368-8 OBX-5=date | TS | RE | [0..1] | For unknown date, OBX-5 MAY be populated with '99999999' |
| | OBX segment with OBX-3.1=77976-9 OBX-5=date | TS | O | [0..1] | |
| | OBX segment with OBX-3.1=77977-7 OBX-5.2=numeric value OBX-6=units value from INV140 value set; | SN | O | [0..1] | |
| PHVS_DurationUnit_CD C | OBX-6-Units | CE | O | [0..1] | Part of the INV139 Observation/OBX Segment. |
| PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=77996-7 OBX-5=Value from value Set | CWE | O | [0..1] | |
| | OBX segment with OBX-3.1=77975-1 OBX-5=date | TS | RE | [0..1] | For unknown date, OBX-5 MAY be populated with '99999999' |

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|-----------------------|--|-----|----|--------|--|
| PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=77974-4 OBX-5=Value from value Set | CWE | O | [0..1] | |
| | OBX segment with OBX-3.1=8656-1 OBX-5=date | TS | O | [0..1] | Use the most recent admission, in association with this instance of the case. |
| | OBX segment with OBX-3.1=8649-6 OBX-5=date | TS | O | [0..1] | Use the most recent discharge, related to the admission represented by variable INV132. |
| | OBX segment with OBX-3.1=78033-8 OBX-5.2=numeric value | SN | O | [0..1] | Populate OBX-6 with d^day^UCUM. |
| PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=77978-5 OBX-5=Value from value Set | CWE | RE | [0..1] | |
| | PID-29 Patient Death Date and Time | TS | RE | [0..1] | |
| N/A | OBR-31 Reason for Study in the OBR segment with an OBR-4 value of '68991-9^Epidemiologic Information^LN' | CE | R | [1..1] | Refer to the Event Code List of Nationally Notifiable Diseases and Other Conditions of Public Health Importance document for the relevant MMWR year. This references can be found on the NNDSS Messaging Mapping Guide web site: http://wwwn.cdc.gov/nndss/message-mapping-guides.html |

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|--|---|----|----|--------|---|
| | OBR-3 Filler Order Number in the OBR segment with an OBR-4 value of '68991-9^Epidemiologic Information^LN' | EI | R | [1..1] | <p>OBR-3.1 is the internally assigned case/investigation ID.</p> <p>OBR-3.3 is the OID for sending application as assigning authority.</p> <p>OBR-3.4 is the literal value: 'ISO'.</p> <p>National reporting jurisdiction (77968-6) and Local Record ID (INV168 in OBR-3) are used together to define a unique case in the CDC database. The values for each of these data elements must remain the same when sending updates on a unique case. Any changes to these data elements will cause the addition of a new case to the CDC database. For more details, refer to the document on the MMG web site: http://wwwn.cdc.gov/nndss/document/Generic_Data_Elements_that_Define_a_Unique_Case.docx</p> |
| | OBX segment with OBX-3.1=77993-4 OBX-5=string up to 199 characters | ST | O | [0..1] | |
| | OBX segment with OBX-3.1=77997-5 OBX-5=Legacy Case Identifier | ST | RE | [0..1] | <p>For a NETSS case ID, please use the following format: Case ID(6) - State(2) - Site(3) - Year(4) e.g., CaseId01LAB2009.</p> |
| | OBX segment with OBX-3.1=77998-3 OBX-5.2=numeric value OBX-6=units value from INV2002 value set; | SN | RE | [0..1] | <p>AGE should populate the second component of the OBX.5 field. In HL7, components are typically separated by the character '^' (Caret).</p> <p>OBX-5.2 will contain '9999' for unknown Age at case investigation.</p> |

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|--------------------------------------|---|-----|----|--------|---|
| PHVS_AgeUnit_UCUM | OBX-6-Units | CE | RE | [0..1] | Part of the INV2001 Observation/OBX Segment. |
| PHVS_DiseaseAcquiredJurisdiction_NND | OBX segment with OBX-3.1=77982-7 OBX-5=Value from value Set | CWE | RE | [0..1] | |
| PHVS_Country_ISO_3166-1 | OBX segment with OBX-3.1=INV153 OBX-5=Value from value Set | CWE | RE | [0..1] | Three-letter country code |
| PHVS_State_FIPS_5-2 | OBX segment with OBX-3.1=INV154 OBX-5=Value from value Set | CWE | RE | [0..1] | Two-digit numeric FIPS code |
| PHVS_City_USGS_GNIS | OBX segment with OBX-3.1=INV155 OBX-5=Value from value Set | CWE | RE | [0..1] | One-to-ten digit numeric GNIS Feature ID |
| PHVS_County_FIPS_6-4 | OBX segment with OBX-3.1=INV156 OBX-5=Value from value Set | CWE | O | [0..1] | Five-digit numeric FIPS code |
| | | | | | |
| PHVS_Country_ISO_3166-1 | OBX segment with OBX-3.1=77984-3 OBX-5=Value from value Set | CWE | RE | [0..1] | CSTE has asked CDC to consider replacing INV153 (Imported Country) with INV502 (Country of exposure), in a repeating block format. CSTE and CDC have agreed to work together to evaluate whether the newly proposed variable can either replace or populate the imported field. Until the time that assessment can be made, CDC will need to be able to use the imported fields for reports and publications. |

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|----------------------------------|--|-----|----|--------|--|
| PHVS_StateProvinceOfExposure_CDC | OBX segment with OBX-3.1=77985-0 OBX-5=Value from value Set | CWE | RE | [0..1] | CSTE has asked CDC to consider replacing INV154 (Imported State) with INV503 (State or Province of exposure), in a repeating block format. CSTE and CDC have agreed to work together to evaluate whether the newly proposed variable can either replace the imported field or populate the imported field. Until the time that assessment can be made, CDC will need to be able to use the imported fields for reports and publications. |
| | OBX segment with OBX-3.1=77986-8 OBX-5=string up to 199 characters | ST | RE | [0..1] | CSTE has asked CDC to consider replacing INV155 (Imported City) with INV504 (City of exposure), in a repeating block format. CSTE and CDC have agreed to work together to evaluate whether the newly proposed variable can either replace or populate the imported field. Until the time that assessment can be made, CDC will need to be able to use the imported field for reports and publications. |
| | OBX segment with OBX-3.1=77987-6 OBX-5=string up to 199 characters | ST | RE | [0..1] | CSTE has asked CDC to consider replacing INV156 (Imported County) with INV505 (County of exposure), in a repeating block format. CSTE and CDC have agreed to work together to evaluate whether the newly proposed variable can either replace or populate the imported field. Until the time that assessment can be made, CDC will need to be able to use the imported field for reports and publications. |
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| PHVS_CaseTransmissionMode_NND | OBX segment with OBX-3.1=77989-2 OBX-5=Value from value Set | CWE | O | [0..1] | |
| PHVS_CaseClassStatus_NND | OBX segment with OBX-3.1=77990-0 OBX-5=Value from value Set | CWE | R | [1..1] | |

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|--------------------------------------|--|-----|----|--------|--|
| PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=77965-2 OBX-5=Value from value Set | CWE | RE | [0..1] | <p>If Immediate National Notifiable Condition = 'Y' (meaning the condition is immediately nationally notifiable), populate OBX.5 with 'Y^Yes^HL70136'.</p> <p>If Immediate National Notifiable Condition= 'N' (meaning it is NOT immediately nationally notifiable) , populate OBX.5 with 'N^No^HL70136'.</p> <p>If Immediate National Notifiable Condition = 'U' (meaning it is not known whether the condition is immediately nationally notifiable or not), populate OBX.5 with 'UNK^Unknown^NULLFL'.</p> |
| PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=77980-1 OBX-5=Value from value Set | CWE | RE | [0..1] | |
| | OBX segment with OBX-3.1=77981-9 OBX-5=Case Outbreak Name (up to 199 characters) | ST | RE | [0..1] | Note: that this is a locally-defined field. |
| PHVS_ResultStatus_NND | OBR-25 Result Status in the OBR segment with an OBR-4 value of '68991-9^Epidemiologic Information^LN' | ID | R | [1..1] | |
| | OBX segment with OBX-3.1=77969-4 OBX-5=Jurisdiction (up to 199 characters) | ST | O | [0..1] | Note: that this is a locally-defined field |
| PHVS_ReportingSourceType_NND | OBX segment with OBX-3.1=48766-0 OBX-5=Value from value Set | CWE | O | [0..1] | |
| | OBX segment with OBX-3.1=52831-5 OBX-5=string up to 199 characters | ST | O | [0..1] | |
| PHVS_BinationalReportingCriteria_CDC | OBX segment with OBX-3.1=77988-4 OBX-5=Value from value Set | CWE | RE | [0..*] | |

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|--|---|----|----|--------|---|
| | OBX segment with OBX-3.1=74549-7 OBX-5=string up to 199 characters | ST | RE | [0..1] | |
| | OBX segment with OBX-3.1=74548-9 OBX-5=string up to 199 characters | ST | RE | [0..1] | |
| | OBX segment with OBX-3.1=74547-1 OBX-5=string up to 199 characters | ST | RE | [0..1] | |
| | OBX segment with OBX-3.1=77979-3 OBX-5=date | DT | O | [0..1] | |
| | OBR-7=date | TS | R | [1..1] | Refer to Conformance Statement CN-017 in the PHIN Messaging Guide for Case Notification Reporting, Version 3.0, Release 1. |

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| | OBR-22=date | TS | R | [1..1] | Refer to Conformance Statement CN-018 in the PHIN Messaging Guide for Case Notification Reporting, Version 3.0, Release 1. |
| | OBX segment with OBX-3.1=77995-9 OBX-5=date | DT | RE | [0..1] | |
| | OBX segment with OBX-3.1=77972-8 OBX-5=date | TS | O | [0..1] | For unknown date, OBX-5 MAY be populated with '99999999' |
| | OBX segment with OBX-3.1=77973-6 OBX-5=date | TS | RE | [0..1] | For unknown date, OBX-5 MAY be populated with '99999999' |
| | OBX segment with OBX-3.1=77991-8 OBX-5.2=numeric value | SN | R | [1..1] | WEEK should populate the second component of the OBX.5 field. |
| | OBX segment with OBX-3.1=77992-6 OBX-5=date | DT | R | [1..1] | CONFORMANCE STATEMENT: OBX-5=date SHALL be in YYYY format |
| | OBX segment with OBX-3.1=77994-2 OBX-5=date | DT | RE | [0..1] | |
| | OBX segment with OBX-3.1=77970-2 OBX-5=date | DT | RE | [0..1] | |
| PHVS_State_FIPS_5-2 | OBX segment with OBX-3.1=77966-0 OBX-5=Value from value Set | CWE | R | [1..1] | |

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| PHVS_County_FIPS_6-4 | OBX segment with OBX-3.1=77967-8 OBX-5=Value from value Set | CWE | RE | [0..1] | |
| PHVS_NationalReportingJurisdiction_NND | OBX segment with OBX-3.1=77968-6 OBX-5=Value from value Set | CWE | R | [1..1] | National reporting jurisdiction (77968-6) and Local Record ID (INV168 in OBR-3) are used together to define a unique case in the CDC database. The values for each of these data elements must remain the same when sending updates on a unique case. Any changes to these data elements will cause the addition of a new case to the CDC database. For more details, refer to the document on the MMG web site: http://wwwn.cdc.gov/nndss/document/Generic_Data_Elements_that_Define_a_Unique_Case.docx |
| | OBX segment with OBX-3.1=77999-1 OBX-5=Text String | TX | O | [0..1] | Do not send personally identifiable information to CDC in this field. |

| Repeating Group Element | Sample Segment | | | | |
|-------------------------|--|--|--|--|--|
| NO | MSH ^~\& SendAppName^2.16.840.1.114222.TBD^ISO Sending-Facility^2.16.840.1.114222.TBD^ISO PHINCDS^2.16.840.1.114222.4.3.2.10^ISO PHIN^2.16.840.1.114222^ISO 20140630120030.1234-0500 ORU^R01^ORU_R01 MESSAGE CONTROL ID D 2.5.1 NOTF_ORU_v3.0^PHINProfileID^2.16.840.1.114222.4.10.3^ISO~Generic_MMG_V2.0^PHINMsgMapID^2.16.840.1.114222.4.10.4^ISO | | | | |
| | | | | | |
| NO | PID 1 LocalPatID1DEM197^^^SendAppNameLocalID&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106-3^White^CDCREC~1002-5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135-2^Hispanic or Latino^CDCREC | | | | |
| NO | PID 1 LocalPatID1DEM197^^^SendAppName&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106-3^White~1002-5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135-2^Hispanic or Latino^CDCREC | | | | |
| NO | PID 1 LocalPatID1DEM197^^^SendAppName&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106-3^White^CDCREC~1002-5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135-2^Hispanic or Latino^CDCREC | | | | |

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| NO | PID 1 LocalPatID1DEM197^^^SendAppNa me&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106- 3^White~1002-5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135- 2^Hispanic or Latino^CDCREC |
| NO | OBX 1 ST 32624-9^Other Race Text^LN Place details Other Race here F |
| NO | PID 1 LocalPatID1DEM197^^^SendAppNa me&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106- 3^White^CDCREC~1002- 5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135- 2^Hispanic or Latino^CDCREC |
| NO | OBX 1 CWE 78746-5^Country of Birth^LN USA^United States^ISO3166_1 F |
| NO | OBX 1 ST 21842-0^Other Birth Place^LN Place details about Other Birth Place here F |
| NO | OBX 2 CWE 77983-5^Country of Usual Residence^LN USA^United States^ISO3166_1 F |

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| NO | PID 1 LocalPatID1DEM197^^^SendAppNa me&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106- 3^White^CDCREC~1002- 5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135- 2^Hispanic or Latino^CDCREC |
| NO | PID 1 LocalPatID1DEM197^^^SendAppNa me&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106- 3^White^CDCREC~1002- 5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135- 2^Hispanic or Latino^CDCREC |
| NO | PID 1 LocalPatID1DEM197^^^SendAppNa me&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106- 3^White~1002-5^American Indian or Alaska Native^CDCREC ^^18^47635^^^18097 2135- 2^Hispanic or Latino^CDCREC |
| | |
| NO | OBX 1 TS 11368-8^Date of Illness Onset^LN 20140401 F |
| NO | OBX 2 TS 77976-9^Illness End Date^LN 20140413 F |
| NO | OBX 3 SN 77977-7-7^Illness Duration^LN ^12 d^day^UCUM F |
| NO | OBX 3 SN 77977-7^Illness Duration^LN ^12 d^day^UCUM F |
| NO | OBX 4 CWE 77996-7^Pregnancy Status^LN N^No^HL70136 F |
| NO | OBX 5 TS 77975-1^Diagnosis Date^LN 20140401 F |

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| NO | OBX 6 CWE 77974-4^Hospitalized^LN Y^Yes^HL70136 F |
| NO | OBX 7 TS 8656-1^Admission Date^LN 20131230 F |
| NO | OBX 8 TS 8649-6^Discharge Date^LN 20140104 F |
| NO | OBX 9 SN 78033-8^Duration of hospital stay in days^LN ^5 d^day^UCUM F |
| NO | OBX 10 CWE 77978-5^Subject Died^LN Y^Yes^HL70136 F |
| NO | PID -29 Sample Segment : PID 1 LocalPatID1DEM197^^^SendAppName&2.16.840.1.114222.GENV2&ISO ~^^^S 19620302 F 2106-3^White^CDCREC~1002-5^American Indian or Alaska Native^CDCREC ^18^47635^^^18097 2135-2^Hispanic or Latino^CDCREC 20130104 |
| NO | OBR 1 "" INV168^SendAppName^2.16.840.1.114222.TBD^ISO 68991-9^Epidemiologic Information^LN 20140506170100 20140506170100 F 11550^Hemolytic uremic syndrome postdiarrheal^NND |

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| NO | OBR 2 "" CASE/Investigation ID^SendAppName^2.16.840.1.11422 2.TBD^ISO EPIINFO^Epidemiologic Information^CDCPHINVS 20140506170100 20140506170100 F 11550^Hemolytic uremic syndrome postdiarrheal^NND |
| NO | OBX 1 ST 77993-4^State Case Identifier^LN 2014IN10000001 F |
| NO | OBX 2 ST 77997-5^Legacy Case Identifier^LN 61528936181002006 F |
| NO | OBX 3 SN 77998-3^Age at Case investigation^LN ^51 a^year^UCUM F |

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| NO | OBX 3 SN 77998-3^Age at Case investigation^LN ^51 a^year^UCUM F |
| NO | OBX 4 CWE 77982-7^Case Disease Imported Code^LN PHC246^Out of State^CDCPHINVS F |
| NO | OBX 5 CWE INV153^Imported Country^PHINQUESTION MEX^Mexico^ISO3166_1 F |
| NO | OBX 6 CWE INV154^Imported State^PHINQUESTION 48^Texas^FIPS5_2 F |
| NO | OBX 7 CWE INV155^Imported City^PHINQUESTION 1350851^Abernathy^USGSGNIS F |
| NO | OBX 8 CWE INV156^Imported County^PHINQUESTION 48303^Lubbock, TX^FIPS6_4 F |
| | |
| YES | OBX 9 CWE 77984-3^Country of Exposure^LN 1 USA^United States^ISO3166_1 F |

| | |
|-----|--|
| YES | OBX 10 CWE 77985-0^State or Province of Exposure^LN 1 06^California^FIPS5_2 F |
| YES | OBX 11 ST 77986-8^City of Exposure^LN 1 Pasadena F |
| YES | OBX 12 ST 77987-6^County of Exposure^LN 1 Los Angeles F |
| | |
| NO | OBX 13 CWE 77989-2^Transmission Mode^LN 420014008^Bloodborne Transmission^SCT F |
| NO | OBX 14 CWE 77990-0^Case Class Status Code^LN 410605003^Confirmed Present^SCT F |

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| NO | OBX 15 CWE 77965-2^Immediate National Notifiable Condition^LN Y^Yes^HL70136 F |
| NO | OBX 16 CWE 77980-1^Case Outbreak Indicator^LN Y^Yes^HL70136 F |
| NO | OBX 17 ST 77981-9^Case Outbreak Name^LN HANSENOUTB1 F |
| NO | OBR 2 "" INV168^SendAppName^2.16.840.1.114222.TBD^ISO EPIINFO^Epidemiologic Information^CDCPHINVS 20140506170100 20140506170100 F 11550^Hemolytic uremic syndrome postdiarrheal^NND |
| NO | OBX 18 ST 77969-4^Jurisdiction Code^LN 18 F |
| NO | OBX 19 CWE 48766-0^Reporting Source Type Code^LN 1^Hospital^HL70406 F |
| NO | OBX 20 ST 52831-5^Reporting Source Zip Code^LN 47635 F |
| NO | OBX 21 CWE 77988-4^Binational Reporting Criteria^LN PHC1140^Exposure to a suspected product from Mexico or Canada^CDCPHINVS F |

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| NO | OBX 22 ST 74549-7^Person Reporting to CDC - Name^LN Smith, John F |
| NO | OBX 23 ST 74548-9^Person Reporting to CDC-Phone Number^LN (734)677-7777 F |
| NO | OBX 24 ST 74547-1^Person Reporting to CDC - Email^LN xxx@yyy.org F |
| NO | OBX 25 DT 77979-3^Investigation State Date^LN 20140401 F |
| NO | OBR 1 "" INV168^SendAppName^2.16.840.1.114222.TBD^ISO 68991-9^Epidemiologic Information^LN 20140506170100 20140506170100 F 11550^Hemolytic uremic syndrome postdiarrheal^NND |

| | |
|----|---|
| NO | OBR 1 "" INV168^SendAppName^2.16.840.1. 114222.TBD^ISO 68991- 9^Epidemiologic Information^LN 20140506170100 20140506170100 F 11550^Hemolytic uremic syndrome postdiarrheal^NND |
| NO | OBX 26 DT 77995-9^Date Reported^LN 20140401 F |
| NO | OBX 27 TS 77972-8^Earliest Date Reported to County^LN 20140401 F |
| NO | OBX 28 TS 77973-6^Earliest Date reported to State^LN 20140401 F |
| NO | OBX 29 SN 77991-8^MMWR Week^LN ^20 F |
| NO | OBX 30 DT 77992-6^MMWR Year^LN 2014 F |
| NO | OBX 31 DT 77994-2^Date CDC was first verbally notified of this Case^LN 20130106 F |
| NO | OBX 32 DT 77970-2^Date First Reported to PHD^LN 20140401 F |
| NO | OBX 33 CWE 77966-0^Reporting State^LN 18^Indiana^FIPS5_2 F |

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| NO | OBX 34 CWE 77967-8^Reporting County^LN 18097^Marion^FIPS6_4 F |
| NO | OBX 35 CWE 77968-6^National Reporting Jurisdiction^LN 18^Indiana^FIPS5_2 F |
| NO | OBX 36 TX 77999-1^Comment Field^LN Comment to communicate something unusual about this case which is not already covered with other data elements F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|--|-----------------------------------|----------------|--|-----------|--------------|------------|--------------------------------------|-----------------------|--|---------------|-----------|-----------------|---|-------------------------|---|
| Message Profile Identifier | N/A: MSH-21 | N/A | Message Profile Identifiers provide a literal value to use for the references in MSH-21. MSH-21 will always contain a reference to the notification type in the "PHINProfileID" namespace and a reference to the implemented version of the Generic MMG in the "PHINMsgMapID" namespace. For conditions that have a condition-specific MMG, MSH-21 will also contain a reference to that MMG that is also in the "PHINMsgMapID" namespace. | Text | R | Y/3 | N/A | N/A | MSH-21 Message Profile ID | EI | R | [3..3] | CONFIRMANCE STATEMENT: Message Profile ID (MSH-21) for this version of the MMG SHALL contain the literal value: NOTF_ORU_v3.0^PHINProfileID^2.16.840.1.114222.4.10.3^ISO-Generic_MMG_V2.0^PHINMsgMapID^2.16.840.1.114222.4.10.4^ISO-FDD_MMG_V1.0^PHINMsgMapID^2.16.840.1.114222.4.10.4^ISO- | NO | MSH ^~& SendAppName^2.16.840.1.114222.TBD^ SO Sending-Facility^2.16.840.1.114222.TBD^ SO PHINCS^2.16.840.1.114222.4.3.2.10^ ISO PHIN^2.16.840.1.114222^ ISO 20160630120030.1234-0500 ORU^R01^ORU_R01 MESSAGE CONTROL ID D 2.5.1 NOTF_ORU_v3.0^PHINProfileID^2.16.840.1.114222.4.10.3^ISO-Generic_MMG_V2.0^PHINMsgMapID^2.16.840.1.114222.4.10.4^ISO-FDD_MMG_V1.0^PHINMsgMapID^2. |
| Start: FoodNet Questions | | | | | | | | | | | | | | | |
| Census Tract of Case-Patient Residence | N/A: PID-11.10 | N/A | Census tract where the address is located is a unique identifier associated with a small statistical subdivision of a county. Census tract data allows a user to find population and housing statistics about a specific part of an urban area. A single community may be composed of several census tracts | Text | O | N | N/A | N/A | PID-11.10 Census Tract | ST | O | [0..1] | Census Tract information can be searched using the American Fact Finder Census Website - http://factfinder2.census.gov/ Census tract should be populated with the 11 character US Census Bureau census tract designation for the residence of the patient. Reading from left to right this field should contain the location's 2-digit State code, 3-digit County code, and 6-digit census tract code | No | PID 1 LocalPatID DEM197^^^SendAppName&2.16.840.1.114222.GENV2&ISO S 19620302 F 2106-3^White^CDCREC~1002-5^American Indian or Alaska Native^CDCREC ^18^47635^^^18097^18097310103 2135-2^Hispanic or Latino^CDCREC |
| Date Case Report Form Completed | INV953 | PHINQUESTION | Date case report form was completed | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=INV953 OBX-5=date | DT | RE | [0..1] | | NO | OBX nn DT INV953^Date Case Report Form Completed^PHINQUESTION 20161230 F |
| Case Information Completed | INV954 | PHINQUESTION | Is all of the information for this case complete? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV954 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV954^Case Information Completed^PHINQUESTION Y^Yes^HL70136 F |
| Start: Additional Hospitalization Questions | | | | | | | | | | | | | | | |
| Second Hospitalization | FDD_Q_400 | PHINQUESTION | Second hospitalization | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_400 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_400^Second hospitalization^PHINQUESTION Y^Yes^HL70136 F |
| Second Admission Date | FDD_Q_401 | PHINQUESTION | Subject's second admission date to the hospital for the condition covered by the investigation. | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=FDD_Q_401 OBX-5=date | DT | RE | [0..1] | Use the second most recent admission, in association with this instance of the case. | NO | OBX nn DT FDD_Q_401^Second Admission Date^PHINQUESTION 20131230 F |
| Second Discharge Date | FDD_Q_402 | PHINQUESTION | Subject's second discharge date from the hospital for the condition covered by the investigation. | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=FDD_Q_402 OBX-5=date | DT | RE | [0..1] | Use the second most recent discharge, related to the admission represented by variable INV132. | NO | OBX nn DT FDD_Q_402^Second Discharge Date^PHINQUESTION 20140104 F |
| Second Duration Of Hospital Stay In Days | INV955 | PHINQUESTION | Subject's duration of stay during the 2nd hospital stay for the condition covered by the investigation. | Numeric | P | N | N/A | N/A | OBX segment with OBX-3.1=INV955 OBX-5.2=numeric value OBX-6=d^day^UCUM | SN | RE | [0..1] | OBX-6 SHOULD be populated with d^day^UCUM | NO | OBX nn SN INV955^Second Duration of Hospital Stay in Days^PHINQUESTION ^5 d^day^UCUM F |
| Transferred To Another Hospital | 448551000124100 | SCT | If the subject was hospitalized, was s/he transferred to another hospital? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=448551000124100 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE 448551000124100^Transferred to another hospital^SCT Y^Yes^HL70136 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|---|-----------|--------------|------------|--------------------------------------|-------------------------|---|---------------|-----------|-----------------|--------------------------|-------------------------|--|
| Hospital ICU | 309904001 | SCT | During any part of the hospitalization, did the subject stay in an Intensive Care Unit (ICU) or a Critical Care Unit (CCU)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=309904001 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE 309904001^Hospital ICU Stay^SCT Y^Yes^HL70136 F |
| End: Additional Hospitalization Questions | | | | | | | | | | | | | | | |
| Immigrated Recently | INV956 | PHINQUESTION | Did the subject immigrate to the U.S.? (within 30 days of onset for Salmonella Typhi & Listeria, 15 days for Cryptosporidium and Cyclospora, and 7 days for all other pathogens) | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV956 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV956^Immigrated Recently^PHINQUESTION N^No^HL70136 F |
| Travel Outside USA Prior To Illness Onset Within Program Specific Timeframe | TRAVEL38 | PHINQUESTION | Did the case patient travel internationally? (within 30 days of onset for Salmonella Typhi & Listeria, 15 days for Cryptosporidium and Cyclospora, and 7 days for all other pathogens) | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=TRAVEL38 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE TRAVEL38^Travel outside USA prior to illness onset within program specific timeframe^PHINQUESTION Y^Yes^HL70136 F |
| Specify Different Travel Exposure Window | INV663 | PHINQUESTION | (Proposed) If the travel exposure window used by the jurisdiction is different from that stated in the travel exposure questions, specify the time interval in days here. Otherwise, leave blank. | Numeric | P | N | N/A | N/A | OBX segment with OBX-3.1=INV663 OBX-5.2=numeric value OBX-6=d^day^UCUM | SN | RE | [0..1] | | NO | OBX nn SN INV663^Specify different travel exposure window^PHINQUESTION ^5 d^day^UCUM F |
| Travel Outside USA, 6 Months Before Illness Began | FDD_Q_1034 | PHINQUESTION | In the 6 months before the subject's illness began, did the subject travel outside of the United States? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1034 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1034^Travel outside USA, 6 months before illness began^PHINQUESTION Y^Yes^HL70136 F |
| Countries Visited, 6 Months Before Illness Began | FDD_Q_1035 | PHINQUESTION | In the 6 months before the subject's illness began, what countries did they visit? | Coded | P | Y | Country | PHVS_Country_ISO_3166-1 | OBX segment with OBX-3.1=FDD_Q_1035 OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..*] | | NO | OBX nn CWE FDD_Q_1035^Countries visited, 6 months before illness began^PHINQUESTION AFG^AFGHANISTAN^Country (ISO |
| Household Members Travel Outside USA, 6 Months Before Illness Began | FDD_Q_1036 | PHINQUESTION | In the 6 months before the subject's illness began, did any member(s) of your household travel outside of the United States? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1036 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1036^Household members travel outside USA, 6 months before illness began^PHINQUESTION Y^Yes^HL70136 F |
| Household Members Countries Visited, 6 Months Before Illness Began | FDD_Q_1037 | PHINQUESTION | In the 6 months before the subject's illness began, what countries did the member(s) of your household visit? | Coded | P | Y | Country | PHVS_Country_ISO_3166-1 | OBX segment with OBX-3.1=FDD_Q_1037 OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..*] | | NO | OBX nn CWE FDD_Q_1037^Household members countries visited, 6 months before illness began^PHINQUESTION AFG^AFGHANISTAN^ISO3166_1 F |
| Did The Case Travel Domestically Prior To Illness Onset? | INV664 | PHINQUESTION | Indicates whether the case traveled domestically prior to illness onset and within program specific timeframe | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV664 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV664^Did the case travel domestically prior to illness onset^PHINQUESTION Y^Yes^HL70136 F |
| Start: Travel History Repeating Questions Note: This Group Repeats For Any Concepts Related To The Assigned Value Set That Are Collected For The Condition Reported. | | | | | | | | | | | | | | | |
| Travel State | 82754-3 | LN | Domestic destination, state(s) traveled to | Coded | P | Y | State | PHVS_State_FIPS_5-2 | OBX segment with OBX-3.1=82754-3 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | YES | OBX nn CWE 82754-3 ^Travel State^LN 1 13^Georgia^FIPS 5-2 (State) F |
| International Destination(s) of Recent Travel | 82764-2 | LN | International destination or countries the patient traveled to | Coded | P | Y | Country | PHVS_Country_ISO_3166-1 | OBX segment with OBX-3.1=82764-2 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | YES | OBX nn CWE 82764-2 ^International Destination(s) of Recent Travel^LN 1 AFG^AFGHANISTAN^Country (ISO 3166-1) F |
| Date Of Arrival To Travel Destination | TRAVEL06 | PHINQUESTION | Date of arrival to travel destination | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=TRAVEL06 OBX-4=obs sub-id OBX-5=date | DT | RE | [0..1] | | YES | OBX nn DT TRAVEL06^Date of Arrival to Travel Destination^PHINQUESTION 1 20160402 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|---|-----------|--------------|------------|--------------------------------------|-----------------------|---|---------------|-----------|-----------------|--------------------------|-------------------------|--|
| Date Of Departure From Travel Destination | TRAVEL07 | PHINQUESTION | Date of departure from travel destination | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=TRAVEL07 OBX-4=obs sub-id OBX-5=date | DT | RE | [0..1] | | YES | OBX nn DT TRAVEL07^Date of Departure from Travel Destination^PHINQUESTION 1 20160412 F |
| End: Travel Repeating Questions | | | | | | | | | | | | | | | |
| Specify Different Exposure Window | INV665 | PHINQUESTION | (Proposed) If the epidemiologic exposure window used by the jurisdiction is different from that stated in the exposure questions, specify the time interval in days here. Otherwise, leave blank. | Numeric | P | N | N/A | N/A | OBX segment with OBX-3.1=INV665 OBX-5.2=numeric value OBX-6=d^day^UCUM | SN | RE | [0..1] | | NO | OBX nn SN INV665^Specify different exposure window^PHINQUESTION ^5 d^day^UCUM F |
| Eat Beef, Within 7 Days Before Illness | FDD_Q_969 | PHINQUESTION | In the 7 days before illness, did the subject eat beef or any foods containing beef? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_969 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_969^Eat Beef, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Ground Beef, Within 7 Days Before Illness | FDD_Q_970 | PHINQUESTION | In the 7 days before illness, did the subject eat any ground beef? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_970 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_970^Eat Ground Beef, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Beef Made Outside Of Home, Within 7 Days Before Illness | FDD_Q_971 | PHINQUESTION | In the 7 days before illness, did the subject eat any beef made outside of home at a business such as a restaurant, deli, fast food, take-out, or catered event? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_971 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_971^Eat Beef made outside of home, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Uncooked Ground Beef, Within 7 Days Before Illness | FDD_Q_972 | PHINQUESTION | In the 7 days before illness, did you/your child eat any ground beef that was undercooked or raw? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_972 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_972^Eat uncooked ground beef, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Fresh Berries, Within 7 Days Before Illness | FDD_Q_973 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh (unfrozen) berries? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_973 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_973^Eat Fresh Berries, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Bird Contact, Within 7 Days Before Illness | FDD_Q_974 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with a bird, not including live poultry such as chickens or turkeys? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_974 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_974^Bird contact, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Cantaloupe, Within 7 Days Before Illness | FDD_Q_975 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh cantaloupe? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_975 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_975^Eat Cantaloupe, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Cat Contact, Within 7 Days Before Illness | FDD_Q_976 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with a cat? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_976 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_976^Cat contact, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Chicken, Within 7 Days Before Illness | FDD_Q_977 | PHINQUESTION | In the 7 days before illness, did the subject eat chicken or any foods containing chicken? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_977 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_977^Eat Chicken, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Fresh Chicken, Within 7 Days Before Illness | FDD_Q_978 | PHINQUESTION | In the 7 days before illness, did the subject eat any chicken at home that was bought fresh (refrigerated)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_978 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_978^Eat Fresh Chicken, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Frozen Chicken, Within 7 Days Before Illness | FDD_Q_979 | PHINQUESTION | In the 7 days before illness, did the subject eat any chicken at home that was bought frozen? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_979 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_979^Eat Frozen Chicken, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Ground Chicken, Within 7 Days Before Illness | FDD_Q_980 | PHINQUESTION | In the 7 days before illness, did the subject eat any ground chicken? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_980 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_980^Eat Ground Chicken, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|--|-----------------------------------|----------------|---|-----------|--------------|------------|--------------------------------------|-----------------------|--|---------------|-----------|-----------------|--------------------------|-------------------------|---|
| Eat Chicken Made Outside Of Home, Within 7 Days Before Illness | FDD_Q_981 | PHINQUESTION | In the 7 days before illness, did the subject eat any chicken made outside of home at a business such as a restaurant, deli, fast food, take-out, or catered event? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_981 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_981^Eat Chicken made outside of home, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Or Drink Dairy, Within 7 Days Before Illness | FDD_Q_982 | PHINQUESTION | In the 7 days before illness, did the subject eat or drink any dairy products (e.g., milk, yogurt, cheese, ice cream, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_982 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_982^Eat or Drink Dairy, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Dog Contact, Within 7 Days Before Illness | FDD_Q_983 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with a dog? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_983 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_983^Dog contact, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Eggs, Within 7 Days Before Illness | FDD_Q_984 | PHINQUESTION | In the 7 days before illness, did the subject eat any eggs? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_984 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_984^Eat eggs, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Eggs Made Outside Of Home, Within 7 Days Before Illness | FDD_Q_985 | PHINQUESTION | In the 7 days before illness, did the subject eat any eggs made outside of home at a business such as a restaurant, deli, fast food, take-out, or catered event? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_985 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_985^Eat eggs made outside of home, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Uncooked Eggs, Within 7 Days Before Illness | FDD_Q_986 | PHINQUESTION | In the 7 days before illness, did the subject eat any eggs that were runny or raw, or uncooked foods made with raw eggs? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_986 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_986^Eat uncooked eggs, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Animal Exposure (Farm / Ranch), Within 7 Days Before Illness | FDD_Q_987 | PHINQUESTION | In the 7 days before illness, did the subject visit, work, or live on farm, ranch, petting zoo, or other setting that has animals? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_987 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_987^Animal exposure (Farm / Ranch), Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Fish, Within 7 Days Before Illness | FDD_Q_988 | PHINQUESTION | In the 7 days before illness, did the subject eat any fish or fish products? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_988 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_988^Eat Fish, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Uncooked Fish, Within 7 Days Before Illness | FDD_Q_989 | PHINQUESTION | In the 7 days before illness, did the subject eat any fish or fish products that was raw or undercooked (e.g., sushi, sashimi)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_989 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_989^Eat uncooked fish, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Handle Raw Meat, Within 7 Days Before Illness | FDD_Q_990 | PHINQUESTION | In the 7 days before illness, did the subject or anyone in your household handle raw meat? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_990 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_990^Handle raw meat, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Handle Raw Poultry, Within 7 Days Before Illness | FDD_Q_991 | PHINQUESTION | In the 7 days before illness, did the subject or anyone in your household handle raw poultry? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_991 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_991^Handle raw poultry, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Handle Raw Seafood, Within 7 Days Before Illness | FDD_Q_992 | PHINQUESTION | In the 7 days before illness, did the subject or anyone in your household handle raw seafood? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_992 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_992^Handle raw seafood, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Fresh Herbs, Within 7 Days Before Illness | FDD_Q_993 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh (not dried) herbs (basil, cilantro, parsley)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_993 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_993^Eat Fresh herbs, Within 7 Days Before Illness^PHINQUESTION UNK^unknown^NULLFL F |
| Eat Lamb, Within 7 Days Before Illness | FDD_Q_994 | PHINQUESTION | In the 7 days before illness, did the subject eat any lamb or mutton? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_994 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_994^Eat Lamb, Within 7 Days Before Illness^PHINQUESTION UNK^unknown^NULLFL F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|--|-----------|--------------|------------|--------------------------------------|-----------------------|---|---------------|-----------|-----------------|--------------------------|-------------------------|---|
| Eat Fresh Lettuce, Within 7 Days Before Illness | FDD_Q_995 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh, raw lettuce? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_995 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_995^Eat Fresh Lettuce, Within 7 Days Before Illness^PHINQUESTION UNK^unknown^NULLFL F |
| Live Poultry Contact, Within 7 Days Before Illness | FDD_Q_996 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with any live poultry (e.g., chickens, turkeys, hens, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_996 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_996^Live Poultry Contact, Within 7 Days Before Illness^PHINQUESTION UNK^unknown^NULLFL F |
| Eat Raw Liver, Within 7 Days Before Illness | FDD_Q_998 | PHINQUESTION | In the 7 days before illness, did the subject eat any raw or undercooked liver? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_998 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_998^Eat Raw Liver, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Drink Pasteurized Milk, Within 7 Days Before Illness | FDD_Q_999 | PHINQUESTION | In the 7 days before illness, did the subject have any pasteurized cow's or goat's milk? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_999 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_999^Drink Pasteurized Milk, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Drink Raw Milk, Within 7 Days Before Illness | FDD_Q_1000 | PHINQUESTION | In the 7 days before illness, did the subject drink any unpasteurized milk? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1000 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1000^Drink Raw Milk, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Drink Outside Untreated Water, Within 7 Days Before Illness | FDD_Q_1002 | PHINQUESTION | In the 7 days before illness, did the subject drink any water directly from a natural spring, lake, pond, stream, or river? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1002 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1002^Drink Outside Untreated Water, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Pig Contact, Within 7 Days Before Illness | FDD_Q_1003 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with any pigs? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1003 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1003^Pig Contact, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Pork, Within 7 Days Before Illness | FDD_Q_1005 | PHINQUESTION | In the 7 days before illness, did the subject eat pork or any foods containing pork? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1005 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1005^Eat Pork, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Drink Raw Cider, Within 7 Days Before Illness | FDD_Q_1006 | PHINQUESTION | In the 7 days before illness, did the subject drink any juice that was not pasteurized and not from a concentrate (often bought from farms or orchards, but may be sold commercially with a | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1006 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1006^Drink Raw Cider, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Reptile Or Amphibian Contact, Within 7 Days Before Illness | FDD_Q_1007 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with a reptile or amphibian (e.g., frog, snake, turtle, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1007 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1007^Reptile or Amphibian Contact, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Ruminant Contact, Within 7 Days Before Illness | FDD_Q_1008 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with any cattle, goats, or sheep? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1008 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1008^Ruminant Contact, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Part Of Sampling Scheme For CEA | FDD_Q_1009 | PHINQUESTION | Denotes whether or not a case was chosen as part of a sampling scheme for CEA. Does not denote eligibility or interview completion. Sites not using sampling schemes can leave this variable blank. | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1009 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1009^Part of Sampling Scheme for CEA^PHINQUESTION Y^Yes^HL70136 F |
| Eat Seafood, Within 7 Days Before Illness | FDD_Q_1010 | PHINQUESTION | In the 7 days before illness, did the subject eat any seafood (e.g., crab, shrimp, oysters, clams, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1010 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1010^Eat Seafood, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Uncooked Seafood, Within 7 Days Before Illness | FDD_Q_1011 | PHINQUESTION | In the 7 days before illness, did the subject eat any seafood that was raw or undercooked (e.g., raw oysters, clams, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1011 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1011^Eat Uncooked Seafood, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|--|-----------|--------------|------------|--------------------------------------|-----------------------|---|---------------|-----------|-----------------|--------------------------|-------------------------|--|
| Home With Septic System, Within 7 Days Before Illness | FDD_Q_1012 | PHINQUESTION | In the 7 days before illness, did the subject reside in a home with a septic system? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1012 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1012^Home with Septic System, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Close Contact With Diarrhea, Within 7 Days Before Illness | FDD_Q_1013 | PHINQUESTION | In the 7 days before illness, did the subject have a household member or a close contact with diarrhea? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1013 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1013^Close contact with Diarrhea, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Sick Pet Contact, Within 7 Days Before Illness | FDD_Q_1014 | PHINQUESTION | In the 7 days before illness, did the subject have any contact with a pet that had diarrhea? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1014 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1014^Sick Pet Contact, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Soft Cheese, Within 7 Days Before Illness | FDD_Q_1015 | PHINQUESTION | In the 7 days before illness, did the subject eat any soft cheese (queso fresco, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1015 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1015^Eat Soft Cheese, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Fresh Spinach, Within 7 Days Before Illness | FDD_Q_1017 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh (unfrozen), raw spinach? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1017 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1017^Eat fresh spinach, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Eat Sprouts, Within 7 Days Before Illness | FDD_Q_1018 | PHINQUESTION | In the 7 days before illness, did the subject eat any sprouts? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1018 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1018^Eat Sprouts, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Swim In Treated Water, Within 7 Days Before Illness | FDD_Q_1019 | PHINQUESTION | In the 7 days before illness, did the subject swim in, wade in, or enter a pool, hot tub/spa, fountain, or waterpark with treated water (chlorinated, etc.)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1019 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1019^Swim in Treated Water, Within 7 Days Before Illness^PHINQUESTION Y^Yes^HL70136 F |
| Swim In Untreated Water, Within 7 Days Before Illness | FDD_Q_1020 | PHINQUESTION | In the 7 days before illness, did the subject swim in, wade in, or enter an ocean, lake, pond, river, stream, or natural spring? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1020 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1020^Swim in Untreated Water, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Fresh Tomatoes, Within 7 Days Before Illness | FDD_Q_1021 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh, raw tomatoes? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1021 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1021^Eat Fresh Tomatoes, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Turkey Within 7 Days Before Illness | FDD_Q_1022 | PHINQUESTION | In the 7 days before illness, did the subject eat any turkey or any foods containing turkey? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1022 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1022^Eat Turkey Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Ground Turkey, Within 7 Days Before Illness | FDD_Q_1023 | PHINQUESTION | In the 7 days before illness, did the subject eat any ground turkey? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1023 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1023^Eat Ground Turkey, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Turkey Made Outside Of Home, Within 7 Days Before Illness | FDD_Q_1024 | PHINQUESTION | In the 7 days before illness, did the subject eat any turkey made outside of home at a business such as a restaurant, deli, fast food, take-out, or catered event? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1024 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1024^Eat Turkey made outside of home, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Eat Fresh Watermelon, Within 7 Days Before Illness | FDD_Q_1025 | PHINQUESTION | In the 7 days before illness, did the subject eat any fresh watermelon? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1025 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1025^Eat Fresh Watermelon, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Drink Well Water, Within 7 Days Before Illness | FDD_Q_1026 | PHINQUESTION | In the 7 days before illness, did the subject use water from a private well as the primary source of drinking water? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1026 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1026^Drink Well Water, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|--|-----------------------------------|----------------|--|-----------|--------------|------------|--|--------------------------------|--|---------------|-----------|-----------------|--------------------------|-------------------------|--|
| Eat Veal, Within 7 Days Before Illness | FDD_Q_1027 | PHINQUESTION | In the past 7 days before illness, did the subject eat any veal? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1027 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1027^Eat Veal, Within 7 Days Before Illness^PHINQUESTION N^No^HL70136 F |
| Consumed Any Form Of Antacids, Within 30 Days Before Illness | FDD_Q_1028 | PHINQUESTION | In the 30 days before the subject's illness began, did the subject take any medications to block acids? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_1028 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1028^Consumed any form of Antacids, within 30 days before illness^PHINQUESTION Y^Yes^HL70136 F |
| Consumed Medications To Block Acids, Within 30 Days Before Illness | FDD_Q_1029 | PHINQUESTION | What medications to block acids did the subject take in the 30 days before illness began? | Coded | P | Y | Antacids | PHVS_Antacids_FDD | OBX segment with OBX-3.1=FDD_Q_1029 OBX-5=Value from value set | CWE | RE | [0..*] | | NO | OBX nn CWE FDD_Q_1029^Consumed medications to block acids, within 30 days before illness^PHINQUESTION 219233^MOM^RxNorm F |
| Diagnosis Or Been Treated For Cancer (Including Leukemia/Lymphoma), In 6 Months Before Illness | FDD_Q_1030 | PHINQUESTION | In the 6 months before the subject's illness began, was the subject diagnosed or treated for cancer (including leukemia/lymphoma)? | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=FDD_Q_1030 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1030^Diagnosis or been treated for cancer (including leukemia/lymphoma), in 6 months before illness^PHINQUESTION Y^Yes^HL70136 F |
| Diagnosis Or Been Treated For Diabetes, In 6 Months Before Illness | FDD_Q_1031 | PHINQUESTION | In the 6 months before (your/your child's) illness began, were (the subject) diagnosed or treated for diabetes? | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=FDD_Q_1031 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1031^Diagnosis or been treated for diabetes, in 6 months before illness^PHINQUESTION Y^Yes^HL70136 F |
| Treatment By Abdominal Surgery, In 6 Months Before Illness | FDD_Q_1032 | PHINQUESTION | In the 6 months before the subject's illness began, did the subject have abdominal surgery (e.g., removal of appendix or gallbladder, or any surgery of the stomach or large intestine)? | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=FDD_Q_1032 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1032^Treatment by abdominal surgery, in 6 months before illness^PHINQUESTION Y^Yes^HL70136 F |
| Consumed Probiotics, Within 30 Days Before Illness | FDD_Q_1033 | PHINQUESTION | In the 30 days before the subject's illness began, did the subject take a probiotic? Probiotics are live microorganism (such as certain types of bacteria) that may | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=FDD_Q_1033 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1033^Consumed probiotics, within 30 days before illness^PHINQUESTION Y^Yes^HL70136 F |
| Start: Listeria Questions | | | | | | | | | | | | | | | |
| Pregnancy Associated Case | FDD_Q_97 | PHINQUESTION | Is this Listeria case pregnancy-associated? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=FDD_Q_97 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_97^Pregnancy Associated Case^PHINQUESTION N^No^HL70136 F |
| Pregnancy Outcome | 63893-2 | LN | If Listeria case was pregnancy-associated, what was the outcome of the pregnancy? Note: fetal death includes miscarriage or stillbirth; delivery is a live birth. | Coded | P | N | Pregnancy Outcome (Listeria) | PHVS_PregnancyOutcome_Listeria | OBX segment with OBX-3.1=63893-2 OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | NO | OBX nn CWE 63893-2^Pregnancy Outcome^LN 21243004^Term birth of newborn^SCT F |
| End: Listeria Questions | | | | | | | | | | | | | | | |
| Start: Antibiotics Questions | | | | | | | | | | | | | | | |
| Start: Antibiotics Used For Current Illness Questions | | | | | | | | | | | | | | | |
| Antibiotic Used For Current Illness | INV947 | PHINQUESTION | Did the subject take antibiotics for this illness? | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=INV947 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV947^Antibiotic used for current illness^PHINQUESTION Y^Yes^HL70136 F |
| Name Of The Antibiotic Used For Current Illness | INV948 | PHINQUESTION | If antibiotics were taken, provide the names of antibiotics | Coded | P | Y | Antibiotics (FDD) | PHVS_Antibiotics_FDD | OBX segment with OBX-3.1=INV948 OBX-5=Value from value set | CWE | RE | [0..*] | | NO | OBX nn CWE INV948^Name of the antibiotic used for current illness^PHINQUESTION 722^Amoxicillin^RxNorm~3640^Doxy cycline^RxNorm F |
| End: Antibiotics Used For Current Illness Questions | | | | | | | | | | | | | | | |
| Start: Antibiotics Used 30 Days Before Illness Questions | | | | | | | | | | | | | | | |
| Antibiotic Used, 30 Days Before Illness | INV957 | PHINQUESTION | In the 30 days before the subject's illness began, did they take any antibiotics? | Coded | P | N | Yes No Unknown Refused (YNU) | PHVS_YesNoUnkRefused_NND | OBX segment with OBX-3.1=INV957 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV957^Antibiotic used, 30 days before illness^PHINQUESTION Y^Yes^HL70136 F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|--|-----------|--------------|------------|--|--------------------------|--|---------------|-----------|-----------------|--|-------------------------|--|
| Name Of The Antibiotic Used, 30 Days Before Illness | INV958 | PHINQUESTION | If antibiotics were taken, provide the names of antibiotics | Coded | P | Y | Antibiotics (FDD) | PHVS_Antibiotics_FDD | OBX segment with OBX-3.1=INV958 OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..*] | | NO | OBX nn CWE INV958^Name of the antibiotic used, 30 days before illness^PHINQUESTION 151399^Bactrim^RxNorm~3640^Doxy cycline^RxNorm F |
| End: Antibiotics Used 30 Days Before Illness Questions | | | | | | | | | | | | | | | |
| End: Antibiotics Questions | | | | | | | | | | | | | | | |
| Start: Clinical Questions | | | | | | | | | | | | | | | |
| Start: Signs And Symptoms Repeating Questions Note: This Group Repeats For Any Concepts Related To The Assigned Value Set That Are Collected For The Condition Reported. | | | | | | | | | | | | | | | |
| Problem Associated Signs And Symptoms | 56831-1 | LN | Clinical signs and symptoms (e.g. Fever, Diarrhea, Cough) | Coded | P | N | Signs and Symptoms (FDD) | PHVS_SignsSymptoms_FDD | OBX segment with OBX-3.1=56831-1 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | NOTE: This group repeats for any concepts related to the assigned value set that are collected for the condition reported. | PRIMARY/PARENT | OBX nn CWE 56831-1^Problem associated signs and symptoms^LN 1 62315008^Diarrhea^SCT F |
| Signs And Symptoms Indicator | INV919 | PHINQUESTION | Response for each of the signs and symptoms | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV919 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE INV919^Signs and Symptoms Indicator^PHINQUESTION 1 Y^Yes^HL70136 F |
| End: Signs And Symptoms Repeating Questions | | | | | | | | | | | | | | | |
| HUS | INV936 | PHINQUESTION | Did the subject have a diagnosis of HUS? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV936 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV936^HUS^PHINQUESTION N^No^HL70136 F |
| Thrombotic Thrombocytopenia (TTP) | INV937 | PHINQUESTION | Did the subject have a diagnosis o Thrombotic Thrombocytopenia (TTP)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV937 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV937^Thrombotic Thrombocytopenia (TTP)^PHINQUESTION N^No^HL70136 F |
| Subject Outcome | FDD_Q_1038 | PHINQUESTION | Subject's outcome (assessed for non-hospitalized cases within 7 days of specimen collection date and hospitalized cases at hospital discharge) | Coded | P | N | Condition Status (FDD) | PHVS_ConditionStatus_FDD | OBX segment with OBX-3.1=FDD_Q_1038 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_1038^Subject Outcome^PHINQUESTION 397709008^Patient died (finding)^SCT F |
| End: Clinical Questions | | | | | | | | | | | | | | | |
| Start: Other Questions | | | | | | | | | | | | | | | |
| Case Identified By An Audit | FDD_Q_89 | PHINQUESTION | Was case found during an audit? | Coded | P | N | Yes No Indicator (HL7) | PHVS_YesNo_HL7_2x | OBX segment with OBX-3.1=FDD_Q_89 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_89^Case identified by an audit^PHINQUESTION Y^Yes^HL70136 F |
| Case Interviewed By Public Health Staff | INV959 | PHINQUESTION | Was the subject interviewed by public health (i.e. state or local health department or FoodNet staff)? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV959 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV959^Case interviewed by Public Health Staff^PHINQUESTION Y^Yes^HL70136 F |
| Homeless | 32911000 | SCT | No fixed residence for any given period of time | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=32911000 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE 32911000^Homeless^SCT Y^Yes^HL70136 F |
| End: Other Questions | | | | | | | | | | | | | | | |
| Start: Outbreak Questions | | | | | | | | | | | | | | | |
| Foodborne Disease Outbreak Surveillance System (FDOSS) Outbreak ID Number | FDD_Q_88 | PHINQUESTION | CDC FDOSS outbreak ID number | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=FDD_Q_88 OBX-5=string up to 199 characters | ST | RE | [0..1] | | NO | OBX nn ST FDD_Q_88^Foodborne Disease Outbreak Surveillance System (FDOSS) Outbreak ID Number^PHINQUESTION ABC123 F |
| State Outbreak Identification Number | FDD_Q_1129 | PHINQUESTION | State outbreak identification number | Text | P | N | N/A | N/A | OBX segment with OBX-3.1= FDD_Q_1129 OBX-5=string up to 199 characters | ST | RE | [0..1] | | NO | OBX nn ST FDD_Q_1129^State Outbreak Identification Number^PHINQUESTION OutbrkStateID 123 F |
| Type Of Outbreak | FDD_Q_404 | PHINQUESTION | Type of outbreak that the subject was part of | Coded | P | N | Outbreak Type (FDD) | PHVS_OutbreakType_FDD | OBX segment with OBX-3.1= FDD_Q_404 OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_404^Type of outbreak^PHINQUESTION 416086007^Food-borne transmission (qualifier value)^SCT F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|---|-----------|--------------|------------|---|----------------------------|---|---------------|-----------|-----------------|--|-------------------------|---|
| End: Outbreak Questions | | | | | | | | | | | | | | | |
| Begin: Escherichia Coli STEC Questions | | | | | | | | | | | | | | | |
| E. Coli O157 Antigen Test Result | 44087-5 | LN | For possible <i>E. coli</i> cases: What was the result of specimen testing for O157 by EIA or PCR at a clinical laboratory? | Coded | P | N | PosNegNotDone | PHVS_PosNegNotDone_NND | OBX segment with OBX-3.1=44087-5 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE 44087-5^E. Coli O157 Antigen Test Result^LN 10828004^Positive^SCT F |
| Escherichia Coli O157:H7 Ag [Presence] In Stool | 32777-5 | LN | If <i>E. coli</i> , was it H7 antigen positive? | Coded | P | N | Yes No Unknown Not Done | PHVS_YesNoUnkNotDone_CDC | OBX segment with OBX-3.1=32777-5 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE 32777-5^Escherichia coli O157:H7 Ag [Presence] in Stool^LN N^No^HL70136 F |
| STEC H Antigen Number | FDD_Q_900 | PHINQUESTION | If <i>E. coli</i> , what was the H-antigen number? | Coded | P | N | H Antigens (FDD) | PHVS_HAntigen_FDD | OBX segment with OBX-3.1=FDD_Q_900 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_900^STEC O157 H Antigen Number^PHINQUESTION PHC1815^H1^CDCPHINVS F |
| STEC Non-Motile | INV944 | PHINQUESTION | If <i>E. coli</i> , was the isolate non-motile? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=INV944 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV944^STEC Non-motile^PHINQUESTION N^No^HL70136 F |
| Escherichia Coli Serogroup O157 | INV945 | PHINQUESTION | If <i>E. coli</i> , was it O157 positive? | Coded | P | N | Yes No Unknown Not Done | PHVS_YesNoUnkNotDone_CDC | OBX segment with OBX-3.1=INV945 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV945^Escherichia coli serogroup O157^PHINQUESTION Y^Yes^HL70136 F |
| STEC O Antigen Number | FDD_Q_901 | PHINQUESTION | If <i>E. coli</i> , what was the O-antigen number? | Coded | P | N | O Antigen (FDD) | PHVS_OAntigen_FDD | OBX segment with OBX-3.1=FDD_Q_901 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE FDD_Q_901^STEC O Antigen Number^PHINQUESTION PHC1629^O1^CDCPHINVS F |
| Shiga Toxin Producing Escherichia Coli | INV946 | PHINQUESTION | Was <i>E. coli</i> Shiga toxin-producing? | Coded | P | N | Yes No Unknown Not Done | PHVS_YesNoUnkNotDone_CDC | OBX segment with OBX-3.1=INV946 OBX-5=Value from value set | CWE | RE | [0..1] | | NO | OBX nn CWE INV946^Shiga Toxin Producing Escherichia coli^PHINQUESTION Y^Yes^HL70136 F |
| End: Escherichia Coli STEC Questions | | | | | | | | | | | | | | | |
| Begin: Salmonella | | | | | | | | | | | | | | | |
| Salmonella Serogroup | FDD_Q_902 | PHINQUESTION | Salmonella serogroup | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=FDD_Q_902 OBX-5=string with undefined max length | TX | RE | [0..1] | | NO | OBX nn TX FDD_Q_902^Salmonella Serogroup^PHINQUESTION fghsf4343 F |
| End: Salmonella | | | | | | | | | | | | | | | |
| Start: Lab Interpretative Diagnostic Questions Repeating Group | | | | | | | | | | | | | | | |
| WGS ID Number | INV949 | PHINQUESTION | Whole Genome Sequencing (WGS) ID Number | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=INV949 OBX-4=obs sub-id OBX-5=string up to 199 characters | ST | RE | [0..1] | | PRIMARY/PARENT | OBX nn ST INV949^WGS ID Number^PHINQUESTION 1 7566 F |
| Performing Laboratory Specimen ID | LAB202 | PHINQUESTION | A laboratory generated number that identifies the specimen related to this test. | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=LAB202 OBX-4=obs sub-id OBX-5=string up to 199 characters | ST | RE | [0..1] | | CHILD | OBX nn ST LAB202^Performing Laboratory Specimen ID^PHINQUESTION 1 Your State SPHL F |
| Performing Laboratory Type | 82771-7 | LN | Performing laboratory type | Coded | P | N | Performing Lab Type (FDD) | PHVS_PerformingLabType_FDD | OBX segment with OBX-3.1=82771-7 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | CHILD | OBX nn CWE 82771-7^Performing Lab Type^LN 1 PHC645^Commerical^CDCPHINVS F |
| Performing Laboratory Name | 68994-3 | LN | Reporting laboratory name | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=68994-3 OBX-4=obs sub-ID OBX-5=string up to 199 characters | ST | RE | [0..1] | | CHILD | OBX nn ST 68994-3^Performing Laboratory Name^LN 1 string up to 199 characters F |
| Performing Laboratory Identification Number | LAB718 | PHINQUESTION | Reporting Laboratory unique laboratory ID (Applies to clinical or commercial laboratories) | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=LAB718 OBX-4=obs sub-ID OBX-5=string up to 199 characters | ST | RE | [0..1] | The number used should be the same number used for EIP related laboratory surveys and remain unique over time. | CHILD | OBX nn ST LAB718^Performing Laboratory Identification Number^LN 1 string up to 199 characters F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|-------------------------------|-----------------------------------|----------------|--|-----------|--------------|------------|--|-----------------------------------|--|---------------|-----------|-----------------|--------------------------|-------------------------|--|
| Test Type | INV290 | PHINQUESTION | Test Type (Antigen, Culture, Antigen, Antibody, Toxin, etc..) | Coded | P | N | Test Type (FDD) | PHVS_TestType_FDD | OBX segment with OBX-3.1=INV290 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | CHILD | OBX nn CWE INV290^Test Type^PHINQUESTION 1 FDD_A_53^Culture^CDCPHINVS^ ^ F |
| Test Method | 85069-3 | LN | Test method information e.g. Biofire FilmArray; Crypto CELISA (Cellabs); | Coded | P | N | Test Method (FDD) | PHVS_TestMethod_FD D | OBX segment with OBX-3.1=85069-3 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | CHILD | OBX nn CWE 85069-3^Test Method^LN 1 FDD_A_52^PCR^CDCPHINVS ^ F |
| Test Result | INV291 | PHINQUESTION | Epidemiologic interpretation of the results of the test(s) performed for this case. This is a qualitative test result. (e.g. positive, detected, negative) | Coded | P | N | Test Result (FDD) | PHVS_TestResult_FDD | OBX segment with OBX-3.1=INV291 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE INV291^Test Result^PHINQUESTION 1 10828004^Positive^SCT ^ F |
| Organism | 41852-5 | LN | Test result including organism, serotype, serogroup, species, toxins | Coded | O | N | Organism (FDD) | PHVS_Organism_FDD | OBX segment with OBX-3.1=41852-5 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | CHILD | OBX nn CWE 41852-5^Organism^LN 1 27268008^Salmonella^SCT ^ F |
| Test Result Quantitative | LAB628 | PHINQUESTION | Quantitative Test Result Value | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=LAB628 OBX-4=obs sub-id OBX-5=string up to 199 characters | ST | RE | [0..1] | | CHILD | OBX nn ST LAB628^Test Result Quantitative^PHINQUESTION 1 >64.0 ^ F |
| Result Units | LAB115 | PHINQUESTION | Units of measure for the Quantitative Test Result Value | Coded | P | N | Units Of Measure | PHVS_UnitsOfMeasure_CDC | OBX segment with OBX-3.1=LAB115 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE LAB115^Result Units^PHINQUESTION 1 mm^millimeters^UCUM ^ F |
| Test Result Text | LAB629 | PHINQUESTION | Textual result value, used if result is neither numeric nor coded. | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=LAB629 OBX-4=obs sub-id OBX-5=string up to 199 characters | ST | RE | [0..1] | | CHILD | OBX nn ST LAB629^Test Result Text^PHINQUESTION 1 Not documented ^ F |
| Test Result Comments | 8251-1 | LN | Comments having to do specifically with the lab result test. These are the comments from the NTE segment if the result was originally an Electronic Laboratory Report. | Text | P | N | N/A | N/A | OBX segment with OBX-3.1=8251-1 OBX-4=obs sub-id OBX-5=string with undefined max length | FT | RE | [0..1] | | CHILD | OBX nn FT 8251-1^Test Result Comments^LN 1 Epi Lab comment ^ F |
| Specimen Type | 66746-9 | LN | Specimen type | Coded | P | N | Specimen Collection Source | PHVS_SpecimenCollectionSource_FDD | OBX segment with OBX-3.1=66746-9 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | CHILD | OBX nn CWE 66746-9^Specimen Type^LN 1 119297000^Blood^SCT ^ F |
| Specimen Collection Date/Time | 68963-8 | LN | Date and/or time of collection of laboratory specimen | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=68963-8 OBX-4=obs sub-id OBX-5=date | TS | RE | [0..1] | | CHILD | OBX nn TS 68963-8^Specimen Collection Date/Time^LN 1 20160915 ^ F |
| Specimen Received Date/Time | LAB595 | PHINQUESTION | Specimen received date/time | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=LAB595 OBX-4=obs sub-id OBX-5=date | TS | RE | [0..1] | | CHILD | OBX nn TS LAB595^Specimen Received Date/Time^PHINQUESTION 1 20160914 ^ F |
| Specimen Analyzed Date/Time | 45375-3 | LN | The date the specimen/isolate was tested | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=45375-3 OBX-4=obs sub-id OBX-5=date | TS | RE | [0..1] | | CHILD | OBX nn TS 45375-3^Specimen Analyzed Date/Time^LN 1 20170108 ^ F |

| Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type | CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality | HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-----------------------------------|----------------|---|-----------|--------------|------------|--------------------------------------|-------------------------|---|---------------|-----------|-----------------|--|-------------------------|---|
| Date/Time Of Lab Result | 82773-3 | LN | Date result sent from reporting laboratory | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=82773-3 OBX-4=obs sub-ID OBX-5=date | TS | RE | [0..1] | | CHILD | OBX nn TS 82773-3^Date/Time of Lab Result^LN 1 20170109 F |
| Sent To CDC | LAB515 | PHINQUESTION | Was specimen or isolate forwarded to CDC for testing or confirmation? | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=LAB515 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE LAB515^SentCDC^PHINQUESTION 1 N^No^HL70136 F |
| Date Specimen Sent To CDC | 85930-6 | LN | Date specimen sent to CDC | Date | P | N | N/A | N/A | OBX segment with OBX-3.1=85930-6 OBX-4=obs sub-ID OBX-5=date | TS | RE | [0..1] | For unknown date, OBX-5 MAY be populated with '99999999'. | CHILD | OBX nn TS 85930-6 ^Date Specimen Sent to CDC^LN 1 20170108 F |
| Isolate Sent To State Public Health Lab | LAB331 | PHINQUESTION | Was the isolate sent to a state public health laboratory? (Answer 'Yes' if it was sent to any state lab, even if it was sent to a lab outside of the case's state of residence) | Coded | P | N | Yes No Unknown (YNU) | PHVS_YesNoUnknown_CDC | OBX segment with OBX-3.1=LAB331 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE LAB331^Isolate sent to State Public Health Lab^PHINQUESTION 1 N^No^HL70136 F |
| END: Lab Interpretative Diagnostic Questions Repeating Group | | | | | | | | | | | | | | | |
| START: Antimicrobial Susceptibility Repeating Questions NOTE: This group repeats for any concepts related to the assigned value set that are collected for the condition reported. | | | | | | | | | | | | | | | |
| Antimicrobial Susceptibility Test Type | LABAST6 | PHINQUESTION | Antibiotic name or class | Coded | P | N | Antibiotics (FDD) | PHVS_Antibiotics_FDD | OBX segment with OBX-3.1=LABAST6 OBX-4=obs sub-id OBX-5=Value from value set OBX-5.9=string up to 199 characters | CWE | RE | [0..1] | | PRIMARY/PARENT | OBX nn CWE LABAST6^Antimicrobial Susceptibility Test Type^PHINQUESTION 1 733^AMPICILLIN^RXNORM F |
| Antimicrobial Susceptibility Test Interpretation | LABAST8 | PHINQUESTION | Was organism resistant to specified antibiotic? | Coded | P | N | Yes No Not Tested | PHVS_YesNoNotTested_NND | OBX segment with OBX-3.1=LABAST8 OBX-4=obs sub-id OBX-5=Value from value set | CWE | RE | [0..1] | | CHILD | OBX nn CWE LABAST8^Antimicrobial Susceptibility Test Interpretation^PHINQUESTION 1 N^No^HL70136 F |
| END: Antimicrobial Susceptibility Repeating Questions | | | | | | | | | | | | | | | |
| END: FoodNet Questions | | | | | | | | | | | | | | | |

| PHIN Variable | PHIN Variable Code System | Data Element (DE) Name | DE Identifier Sent in HL7 Message | DE Code System | Data Element Description | Data Type |
|---|---------------------------|------------------------|-----------------------------------|----------------|---|-----------|
| START: LABORATORY INFORMATION SECTION: The observations in this section will be mapped under a or another value not in the PHVS_NotificationSectionHeader_CDC value set (https://phinvads.cdc.gov/vads; | | | | | | |
| NOTE: This implementation guide primarily supports the case notification and does not attempt to repurpose It simply provides a place to pass the associated laboratory report data that may be useful for CDC program Please refer to the ELR specification for more details regarding OBR/OBX/SPM interaction (specimen orient | | | | | | |
| START: [Optional/Preferred] Laboratory Template - Note that everything in the laboratory template represe | | | | | | |
| NOTE: Optional laboratory findings section to be used by the jurisdictions if the lab data elements related | | | | | | |
| N/A | N/A | Placer Order Number | N/A: OBR-2 | N/A | A unique order number that uniquely identifies an order among all orders from an ordering application | Text |
| N/A | N/A | Filler Order Number | N/A: OBR-3 | N/A | A laboratory generated number that identifies the test/order instance | Text |
| N/A | N/A | Test Ordered Name | N/A: OBR-4 | N/A | Test that was ordered by the physician / provider (Example: a lab test panel which would lead to several lab tests) | Coded |
| N/A | N/A | Observation Date/Time | N/A: OBR-7 | N/A | The clinically relevant date/time of the observation | Date |
| N/A | N/A | Specimen Action Code | N/A: OBR-11 | N/A | The action to be taken with respect to the specimens that accompany or precede this order | Coded |
| N/A | N/A | Ordering Provider | N/A: OBR-16 | N/A | The physician / provider who ordered the test | Text |

| | | | | | | |
|-----|-----|-------------------------------------|-------------|-----|---|-------|
| N/A | N/A | Results Rpt/Status Chng - Date/Time | N/A: OBR-22 | N/A | Indicates the date and time that the results were reported or that a status changed | Date |
| N/A | N/A | Result Status | N/A: OBR-25 | N/A | The status of results for this order | Coded |
| N/A | N/A | Parent Result | N/A: OBR-26 | N/A | Used together with the information in OBR-29 (Parent), to uniquely identify the parent result's OBX segment related to this order | Coded |
| N/A | N/A | Parent | N/A: OBR-29 | N/A | Relates a child to its parent when a parent/child relationship exists | Coded |
| N/A | N/A | Reason for Study | N/A: OBR-31 | N/A | Reason for the study | Coded |
| N/A | N/A | Parent Universal Service Identifier | N/A: OBR-50 | N/A | The identifier code for the parent order, which caused this observation/test/battery to be performed | Coded |
| N/A | N/A | Test Performed Name | N/A: OBX-3 | N/A | The lab test or analysis that was performed on the specimen (also referred as "Resulted Test Name") | Coded |

| | | | | | | |
|-----|-----|--|--------------------------------------|-----|---|---------|
| N/A | N/A | Observation Sub-ID | N/A: OBX-4 | N/A | Distinguishes between multiple OBX segments with the same observation ID organized under one OBR | Text |
| N/A | N/A | Test Result - Coded Qualitative (Non-organism) | N/A: OBX-5 | N/A | Coded qualitative test result value where OBX-2 is CE or CWE value type | Coded |
| N/A | N/A | Test Result - Coded Organism | N/A: OBX-5 | N/A | Coded result, where result is a coded organism (SNOMED) and OBX-2 is CE or CWE value type | Coded |
| N/A | N/A | Test Result - Numeric | N/A: OBX-5 | N/A | Numeric result value, used where OBX-2 is SN or NM value type | Numeric |
| N/A | N/A | Units of Measure | N/A: OBX-6 for Test Result - Numeric | N/A | Numeric result value units, used where OBX-2 is SN or NM value type | Coded |
| N/A | N/A | Test Result - Text | N/A: OBX-5 | N/A | Lab result text value, used value type where result is neither numeric nor coded and OBX-2 is TX value type | Text |

| | | | | | | |
|-----|-----|--------------------------------------|-------------|-----|---|-----------------------------|
| N/A | N/A | Test Result - Encapsulated Data | N/A: OBX-5 | N/A | Encapsulated Data result value, used where OBX-2 is ED value type Supported to allow sending of encapsulated data such as images or PDF files associated with lab report, commonly Base64 encoded. | image / document attachment |
| N/A | N/A | Unique identifier for Current sample | 80398-1 | LN | Unique isolate identifier for current sample | Text |
| N/A | N/A | Test Result - Reference Range | N/A: OBX-7 | N/A | Identifies the upper and lower limits or bounds of test result values | Text |
| N/A | N/A | Test Result - Interpretation Flag | N/A: OBX-8 | N/A | Abnormal flags used for laboratory result interpretation by the lab (not epidemiologist's interpretation). The interpretation flag identifies a result that is not typical as well | Coded |
| N/A | N/A | Observation Result Status | N/A: OBX-11 | N/A | Result status is the degree of completion of the lab test | Coded |
| N/A | N/A | Specimen Collection Date | N/A: OBX-14 | N/A | Date/time of observation in OBX segment for ELR infers the specimen collection date | Date |
| N/A | N/A | Test Method | N/A: OBX-17 | N/A | The technique or method used to perform the test and obtain the test results (Examples: serum neutralization, titration, dipstick, test strip, anaerobic culture) | Coded |

| | | | | | | |
|-----|-----|----------------------------|-------------|-----|---|------|
| N/A | N/A | Specimen Analyzed Date | N/A: OBX-19 | N/A | Date/time associated with generation of the result | Date |
| N/A | N/A | Performing Laboratory Name | N/A: OBX-23 | N/A | Name of laboratory that performed the lab test | Text |
| N/A | N/A | Performing Person Name | N/A: OBX-25 | N/A | Performing organization medical director / performing person name | Text |
| N/A | N/A | Test Result Comments | N/A: NTE-3 | N/A | The notes and comment related to the result being reported in the OBX segment (Examples: information amplifying the reference range provided, comments about how a clinical finding was reached, clarification regarding the meaning of a clinical finding, additional information not directly related to the clinical finding such as | Text |
| N/A | N/A | Specimen ID | N/A: SPM-2 | N/A | A laboratory generated number that identifies the specimen related to this test | Text |

| | | | | | | |
|-----|-----|--|--------------|-----|--|---------|
| N/A | N/A | Specimen ID Placer Assigned Identifier | N/A: SPM-2.1 | N/A | Specimen ID placer assigned identifier | Text |
| N/A | N/A | Specimen ID Filler Assigned Identifier | N/A: SPM-2.2 | N/A | Specimen ID filler assigned identifier | Text |
| N/A | N/A | Specimen Type | N/A: SPM-4 | N/A | The type of specimen used in testing the resulted lab test | Coded |
| N/A | N/A | Specimen Source Site | N/A: SPM-8 | N/A | This indicates the physical location of the subject where the specimen originated (Examples: right internal jugular, left arm, buttock, right eye) | Coded |
| N/A | N/A | Specimen Role | N/A: SPM-11 | N/A | Indicates the role of the sample | Coded |
| N/A | N/A | Specimen Collection Amount | N/A: SPM-12 | N/A | Specifies the volume or mass of the collected specimen | Numeric |
| N/A | N/A | Specimen Description | N/A: SPM-14 | N/A | Text description of the specimen | Text |

| | | | | | | |
|-----|-----|-------------------------------|-------------|-----|--|---------------|
| N/A | N/A | Specimen Collection Date/Time | N/A: SPM-17 | N/A | The date the specimen was collected | Date |
| N/A | N/A | Specimen Received Date/Time | N/A: SPM-18 | N/A | The date/time the specimen is received | Date/ time |

END: [Optional/Preferred] Laboratory Template
END: LABORATORY INFORMATION SECTION

| CDC Priority | May Repeat | Value Set Name (VADS Hyperlink) | Value Set Code | HL7 Message Context | HL7 Data Type | HL7 Usage | HL7 Cardinality |
|--|------------|---------------------------------|------------------------------|--|---------------|-----------|-----------------|
| <p>"Laboratory Information" category OBR segment with an OBR-4 value of '30954-2^Laboratory Information^Ls/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1107) to identify the laboratory information.</p> <p>use the ELR message, nor does it impose any of the additional requirements and constraints that are in the I ms.</p> <p>nted OBRs), OBRs for multiple specimens, parent-child lab tests/reflex tests, susceptibilities, and other com nts one ORDER_OBSERVATION Group in the message.</p> <p>to the condition in the case notification are available in the surveillance data system.</p> | | | | | | | |
| P | N | N/A | N/A | OBR segment with OBR-2=placer order number | EI | RE | [0..1] |
| O | N | N/A | N/A | OBR segment with OBR-3=filler order number | EI | R | [1..1] |
| R | N | Ordered Test | PHVS_LabTes | OBR segment with OBR-4=value from value set | CE | R | [1..1] |
| R | N | N/A | N/A | OBR segment with OBR-7=date | TS | R | [1..1] |
| O | N | Specimen Actio | PH_SpecimenActionCode_HL7_2x | OBR segment with OBR-11=Value from value set | ID | O | [0..1] |
| P | N | N/A | N/A | OBR segment with OBR-16=ordering provider | XCN | RE | [0..1] |

| | | | | | | | |
|---|---|----------------------------------|----------------------------------|---|-----|----|--------|
| O | N | N/A | N/A | OBR segment with OBR-22=date | TS | RE | [0..1] |
| R | N | Result status (H | PHVS_Result Status_HL7_2 x | OBR segment with OBR-25=value from value set | ID | R | [1..1] |
| P | N | N/A | N/A | OBR segment with OBR-26=parent result | PRL | RE | [0..1] |
| O | N | N/A | N/A | OBR segment with OBR-29=parent | EIP | RE | [0..1] |
| O | Y | N/A | N/A | OBR segment with OBR-31=value from value set | CE | RE | [0..*] |
| O | N | N/A | N/A | OBR segment with OBR-50=Parent universal service identifier | CWE | O | [0..1] |
| R | N | Lab Test Result | PHVS_LabTe stName_CDC | OBX segment with OBX-3.1=value from value set | CE | R | [1..1] |

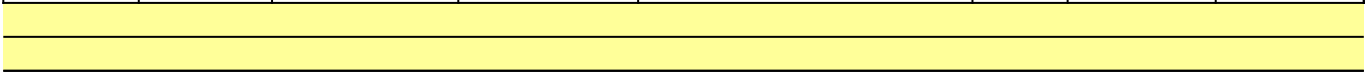
| | | | | | | | |
|---|---|----------------------------------|-----------------------------------|--|--------------|---------|--------|
| P | N | N/A | N/A | OBX segment with OBX-4=numeric value up to 20 characters | ST | C(R/RE) | [0..1] |
| P | N | Lab Test Result | PHVS_LabTestResultQualitative_CDC | OBX segment with OBX-3.1=value from value set for Test Performed Name OBX-5=value from value set | CE or CWE | RE | [0..1] |
| P | N | Microorganism | PHVS_Microorganism_CDC | OBX segment with OBX-3.1=value from value set for Test Performed Name OBX-5=value from value set | CE or CWE | RE | [0..1] |
| P | N | N/A | N/A | OBX segment with OBX-3.1=value from value set for Test Performed Name If OBX-2=SN: OBX-5=numeric value (see SN data type) If OBX-2=NM: OBX-5=numeric value OBX-6=units value from LAB115 value set | SN or NM | RE | [0..1] |
| P | N | Units Of Measure | PHVS_UnitsOfMeasure_CD C | OBX-6 Units for OBX segment identified by Test Result - Numeric | CE | RE | [0..1] |
| P | N | N/A | N/A | OBX segment with OBX-3.1=value from value set for Test Performed Name OBX-5=string with undefined max length | TX | RE | [0..1] |

| | | | | | | | |
|---|---|--------------------------------|---|---|----|----|--------|
| P | N | N/A | N/A | OBX segment with OBX-3.1=data format type OBX-5=string with undefined max length | ED | RE | [0..1] |
| P | N | N/A | N/A | OBX segment with OBX-3.1=80398-1 OBX-5=the isolate identifier assigned by the laboratory | CX | O | [0..1] |
| P | N | N/A | N/A | OBX segment with OBX-7=string up to 60 characters | ST | RE | [0..1] |
| P | Y | Abnormal Flag | PHVS_Abnor malFlag_HL7_ 27 | OBX segment with OBX-8=value from value set | IS | RE | [0..*] |
| R | N | Observation Re | PHVS_Observ ationResultSta tus_HL7_2x | OBX segment with OBX-11=value from value set | ID | R | [1..1] |
| O | N | N/A | N/A | OBX segment with OBX-14=date | TS | RE | [0..1] |
| O | Y | Observation Me | PHVS_LabTe stMethods_C DC | OBX segment with OBX-17=value from value set | CE | O | [0..*] |

| | | | | | | | |
|---|---|-----|-----|--|-----|---------------------------------------|--------|
| O | N | N/A | N/A | OBX segment with OBX-19=date | TS | O | [0..1] |
| O | N | N/A | N/A | OBX segment with OBX-23.1=string up to 50 characters | XON | RE | [0..1] |
| O | N | N/A | N/A | OBX segment with OBX-25=performing organization medical director | XCN | RE | [0..1] |
| O | Y | N/A | N/A | NTE segment with NTE-3=string with undefined max length | FT | R if the NTE segment is used | [1..*] |
| O | N | N/A | N/A | SPM segment with SPM-2.1=placer assigned specimen ID SPM-2.2=filler assigned specimen ID | EIP | RE | [0..1] |

| | | | | | | | |
|---|---|-------------------------------|------------------------|--|-----|------------------------------|--------|
| P | N | N/A | N/A | SPM segment with SPM-2.1=placer assigned specimen ID | EI | RE | [0..1] |
| P | N | N/A | N/A | SPM segment with SPM-2.2=filler assigned specimen ID | EI | RE | [0..1] |
| R | N | Specimen | PHVS_Specimen_CDC | SPM segment with SPM-4=value from value set | CWE | R if the SPM segment is used | [1..1] |
| O | N | Body site | PHVS_BodySite_CDC | SPM segment with SPM-8=value from value set | CWE | O | [0..1] |
| P | N | Specimen Role | PHVS_SpecimenRole_CD C | SPM segment with SPM-11=value from value set | CWE | O | [0..1] |
| P | N | N/A | N/A | SPM segment with SPM-12.1=numeric value SPM-12.2=units value from UCUM value set | CQ | O | [0..1] |
| O | N | N/A | N/A | SPM segment with SPM-14=string up to 199 characters | ST | O | [0..1] |

| | | | | | | | |
|---|---|-----|-----|-----------------------------------|----|----|--------|
| O | N | N/A | N/A | SPM segment with SPM-17.1=date | DR | RE | [0..1] |
| P | N | N/A | N/A | SPM segment with SPM-18=date | TS | RE | [0..1] |



| HL7 Implementation Notes | Repeating Group Element | Sample Segment |
|---|-------------------------|--|
| LN' | | |
| ELR Implementation Guide. | | |
| plex laboratory messages. | | |
| | | |
| | N/A | OBR 2 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775-3^Hepatitis A virus Ab panel in Serum^LN 20140226 |
| | N/A | OBR 2 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775-3^Hepatitis A virus Ab panel in Serum^LN 20140226 121121121^^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5.26&ISO^^^^^^^MD 20140226 F K759^Inflammatory liver disease, unspecified^I10C |
| | N/A | OBR 2 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775-3^Hepatitis A virus Ab panel in Serum^LN |
| | N/A | OBR 2 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775-3^Hepatitis A virus Ab panel in Serum^LN |
| <p>The value of 'G' indicates "Generated order; reflex order".</p> <p>If 'G' value is provided OBR-26 and OBR-29 SHOULD be populated. (refer to ELR implementation guide for more details)</p> | N/A | OBR 3 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 75542-1^Hepatitis A virus RNA^LN 20140226 G 121121121^^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5.26&ISO^^^^^^^MD 20140226 F 13950-1&Hepatitis A virus IgM Ab [Presence] in Serum by |
| | N/A | OBR 2 HEP23456-1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123-1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775-3^Hepatitis A virus Ab panel in Serum^LN 20140226 121121121^^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5.26&ISO^^^^^^^MD 20140226 F K759^Inflammatory liver disease, unspecified^I10C |

| | | |
|---|-----------------------------|--|
| | N/A | OBR 2 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775- 3^Hepatitis A virus Ab panel in Serum^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| | N/A | OBR 2 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775- 3^Hepatitis A virus Ab panel in Serum^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| OBR-26 is used with OBR-29 Parent to link a specific OBX segment associated with another OBR segment, used primarily for linking susceptibility tests to parent culture. Also, commonly used for reflex testing. | N/A | OBR 3 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 75542- 1^Hepatitis A virus RNA^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 .26&ISO^^^^^^MD 20140226 F 13950-1^Hepatitis A virus IgM Ab [Presence] in Serum by Immunoassay&LN^1 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 75542- 1^Hepatitis A virus RNA^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| OBR-29 is used to link the OBR with a parent OBR, commonly used to link susceptibility results with the parent culture. Also, commonly used for reflex testing. | N/A | OBR 3 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 75542- 1^Hepatitis A virus RNA^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| OBR-31 uses values from various code systems for that reason they are not referenced directly. Commonly used code systems: ICD9, ICD10, and CPT | N/A | OBR 2 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 53775- 3^Hepatitis A virus Ab panel in Serum^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| OBR-50 optionally allowed for Labs that do not support unique placer or filler order numbers. In this case for parent/child result linking OBR-29 will need to be populated. | N/A | OBR 3 HEP23456- 1^EHR^2.16.840.1.113883.19.3.2.3^ISO HEP9700123- 1^Lab^2.16.840.1.113883.19.3.1.6^ISO 75542- 1^Hepatitis A virus RNA^LN 20140226 G 121121121^^^^^^NPI&2.16.840.1.113883.4.6&IS O^L^^^NPI^NPI_Facility&2.16.840.1.113883.3.72.5 |
| The OBX segments in an associated laboratory report may use OBX-4 Obs Sub-ID if there is a need to uniquely identify where OBX-3 Observation Identifier is re-used. Typical parsing rules will apply if OBX-4 is detected. "PHVS_LabTestName_CDC" is the broader VADS value set from the | See HL7 Implementation Note | OBX 1 CWE 13950-1^Hepatitis A virus IgM Ab [Presence] in Serum by Immunoassay^LN 1 10828004^Positive^SCT Negative POS F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^1236 9876543^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&IS O^^^NPI |

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|---|------------|---|
| <p>OBX-4 is used to group related observations.</p> | <p>N/A</p> | <p>OBX 1 CWE 13950-1^Hepatitis A virus IgM Ab [Presence] in Serum by Immunoassay^LN 1 10828004^Positive^SCT Negative POS F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI</p> |
| <p>"PHVS_LabTestResultQualitative_CDC" is the broader VADS value set from ELR that contains wide range of coded qualitative results.</p> <p>"PHVS_QualLabResult_RCMT" is the value set from the Reportable Condition Mapping Tables (RCMT) Project which contains commonly used positive, negative and inconclusive qualitative test results associated with infectious diseases.</p> | <p>N/A</p> | <p>OBX 1 CWE 13950-1^Hepatitis A virus IgM Ab [Presence] in Serum by Immunoassay^LN 1 10828004^Positive^SCT Negative POS F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI</p> |
| <p>"PHVS_Microorganism_CDC" is the broader VADS value set from ELR that contains all the lab result organisms.</p> | <p>N/A</p> | <p>OBX 1 CWE 49883-2^Hepatitis B virus resistance panel by Genotype method^LN 703892007^Hepatitis B virus genotype G (organism)^SCT F 20140225 20140226 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI</p> |
| | <p>N/A</p> | <p>OBX 1 SN 1742-6^Alanine aminotransferase [Enzymatic activity/Volume] in Serum or Plasma^LN^SALT^Serum ALT^L^2.40^V1 =^65 U/L^enzyme unit per liter^UCUM 7-56 units per liter of serum H F 20120806 0262^Spectrophotometry^OBSMETHOD</p> |
| | <p>N/A</p> | <p>OBX 1 SN 1742-6^Alanine aminotransferase [Enzymatic activity/Volume] in Serum or Plasma^LN^SALT^Serum ALT^L^2.40^V1 =^65 U/L^enzyme unit per liter^UCUM 7-56 units per liter of serum H F 20120806 0262^Spectrophotometry^OBSMETHOD</p> |
| | <p>N/A</p> | <p>OBX 1 TX 13950-1^Hepatitis A virus IgM Ab [Presence] in Serum by Immunoassay^LN positive F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI</p> |

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|--|------------|--|
| <p>This data type transmits encapsulated data from a source system to a destination system. It contains the identity of the source system, the type of data, the encoding method of the data, and the data itself.</p> | <p>N/A</p> | <p>OBX 1 ED PDF^PDFName ^TEXT^^Base64^JVBERi0xLjUNCiW1tbW1DQoxI DAgb2JqD... HJIZg0KMzU3MTk2DQoJUVPRg== F 20140225 20140226 GHH Lab^L^^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^^1236 9876543^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&IS O^^^^NPI</p> |
| <p>Optional OBX for capturing isolate identifiers.</p> <p>The isolate identifier of the sample being tested. Typically the Isolate ID from the Specimen ID Filler Assigned Identifier, OBX-8</p> | <p>N/A</p> | <p>OBX 1 CX 80398-1^Isolate Identifier^LN Isolate1^^^ISOLAB&2.16.840.1.113883.19.3.1.6 &ISO F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^^1236 </p> |
| <p></p> | <p>N/A</p> | <p>OBX 1 SN 1742-6^Alanine aminotransferase [Enzymatic activity/Volume] in Serum or Plasma^LN^SALT^Serum ALT^L^2.40^V1 =^65 U/L^enzyme unit per liter^UCUM 7-56 units per liter of serum H F 20120806 0262^Spectrophotometry^OBSMETHOD</p> |
| <p>OBX-8 in ELR is noted to have pre-adopted the CWE datatype.</p> | <p>N/A</p> | <p>OBX 1 SN 1742-6^Alanine aminotransferase [Enzymatic activity/Volume] in Serum or Plasma^LN^SALT^Serum ALT^L^2.40^V1 =^65 U/L^enzyme unit per liter^UCUM 7-56 units per liter of serum H F 20120806 0262^Spectrophotometry^OBSMETHOD</p> |
| <p></p> | <p>N/A</p> | <p>OBX 1 CWE 51660-9^Hepatitis A virus IgM Ab [Presence] in Body fluid^LN 10828004^Positive^SCT Negative POS F 20140225 0101^Immunoassay^OBSMETHOD 20140226 GHH Lab^L^^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^^1236 9876543^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&IS O^^^^NPI</p> |
| <p></p> | <p>N/A</p> | <p>OBX 1 SN 11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN ^20400 Not detected F 20140117 0132^Polymerase Chain Reaction (PCR)^OBSMETHOD 20140118 GHH Lab^L^^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^^1236 9876543^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&IS O^^^^NPI</p> |
| <p></p> | <p>N/A</p> | <p>OBX 1 SN 11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN ^20400 Not detected F 20140117 0132^Polymerase Chain Reaction (PCR)^OBSMETHOD 20140118 GHH Lab^L^^^^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^^^1236 9876543^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&IS O^^^^NPI</p> |

| | | |
|---|-----|--|
| | N/A | OBX 1 SN 11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN ^20400 Not detected F 20140117 0132^Polymerase Chain Reaction (PCR)^OBSMETHOD 20140118 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI |
| OBX-23.1 in ELR is a 50 character string representing performing organization name | N/A | OBX 1 SN 11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN ^20400 Not detected F 20140117 0132^Polymerase Chain Reaction (PCR)^OBSMETHOD 20140118 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^XX^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI |
| | N/A | OBX 1 SN 11011-4^Hepatitis C virus RNA [Units/volume] (viral load) in Serum or Plasma by Probe and target amplification method^LN ^20400 Not detected F 20140117 0132^Polymerase Chain Reaction (PCR)^OBSMETHOD 20140118 GHH Lab^L^CLIA&2.16.840.1.113883.19.4.6&ISO^X X^1236 9876543^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^NPI |
| Multiple NTE segments following the OBX may be used to convey result notes. NTE-1 Set ID is used to keep them in order. | N/A | NTE 1 L Result in log IU/mL is 4.31. The quantification range of this assay is 15 to 100,000,000 IU/mL (1.18 log to 8.00 log IU/mL). Testing was performed by the COBAS AmpliPrep/COBAS TaqMan HCV Test, version 2.0 (Roche Molecular Systems, Inc.) |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |

| | | |
|---|-----|---|
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| Units for lab test in SPM-12.2 would be using UCUM code system. UCUM provides syntax . UCUM value sets are available in VADS which includes commonly used units from LOINC website. | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |

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|--|-----|---|
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
| | N/A | SPM 1 HEP23456-1&EHR&2.16.840.1.113883.19.3.2.3&ISO^HEP9700122-1&Lab&2.16.840.1.113883.19.3.1.6&ISO 119364003^Serum specimen^SCT 244001006^Antecubital fossa^SCT P^Patient^HL70369 2^mL&milliliter&UCUM Serum Sample 20140225 20140225101500 |
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