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 mulitple 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 a 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

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

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

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

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

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

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

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

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

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)
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/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	

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

Sending system-assigned local ID of the case investigation with which the subject is associated.	Text	R	N	
States use this identifier to link NEDSS investigations back to their own state investigations.	Text	O	N	
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.	Text	P	N	
Subject age at time of case investigation	Numeric	P	N	

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 Jurisdic
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

Indicates the state (or Province) in which the disease was likely acquired. 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.	Coded	P	N	State or Province of Expo
Indicates the city in which the disease was likely acquired Note: If country of exposure is US, populate with US city. For all other cities, can be populated but not required.	Text	P	N	
Indicates the county in which the disease was likely acquired Note: If country of exposure is US, populate with US county. Otherwise, leave null.	Text	P	N	

Code for the mechanism by which disease or condition was acquired by the subject of the investigation.	Coded	O	N	Case Transmission Mode
Status of the case/event as suspect, probable, confirmed, or not a case per CSTE/CDC/ surveillance case definitions.	Coded	R	N	Case Classification Status

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 National 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 Jurisdi
Use this field, if needed, to communicate anything unusual about this case, which is not already covered with the other data elements. Do not send personally identifiable information to CDC in this field.	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]	**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' Refer to Conformance Statement CN-009 and CN-010 in the PHIN Messaging Guide for Case Notification Reporting, Version 3.0, Release 1.
	PID-3 Patient Identifier List	CX	R	[1..1]	PID-3.1 ID Number is the local Subject ID from the sending system's internally assigned Subject ID; PID-3.4 Assigning Authority format <localID&OID&ISO> Does not pass Variable ID or label.
	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_CDC_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_CDC_Unk	PID-22 Ethnic Group	CE	RE	[0..1]	
PHVS_BirthCountry_CDC	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_3166-1	OBX segment with OBX-3.1=77983-5 OBX-5=Value from value Set	CWE	RE	[0..1]	

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.
	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_CDC	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'

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

	OBR-3 Filler Order Number in the OBR segment with an OBR-4 value of '68991-9^Epidemiologic Information^LN'	EI	R	[1..1]	OBR-3.1 is the internally assigned case/investigation ID. OBR-3.3 is the OID for sending application as assigning authority. OBR-3.4 is the literal value: 'ISO'. 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=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]	For a NETSS case ID, please use the following format: Case ID(6) - State(2) - Site(3) - Year(4) e.g., CaseId01LAB2009.
	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]	AGE should populate the second component of the OBX.5 field. In HL7, components are typically separated by the character '^' (Caret). OBX-5.2 will contain '9999' for unknown Age at case investigation.

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.

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.
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]	

PHVS_YesNoUnknown_CDC	OBX segment with OBX-3.1=77965-2 OBX-5=Value from value Set	CWE	RE	[0..1]	If Immediate National Notifiable Condition = ‘Y’ (meaning the condition is immediately nationally notifiable), populate OBX.5 with ‘Y^Yes^HL70136’. If Immediate National Notifiable Condition= ‘N’ (meaning it is NOT immediately nationally notifiable) , populate OBX.5 with ‘N^No^HL70136’. 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’.
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..*]	

	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.

	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]	

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

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	OBX|1|ST|32624-9^Other Race Text^LN||Place details Other Race here |||||F
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
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

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
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
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	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

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

NO	OBR|2|""|CASE/Investigation ID^SendAppName^2.16.840.1.114222.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||2014IN100000001||||||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

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

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

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

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]	**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~FDD_MMG_V1.0^PHINMsgMapID^2.16.840.1.11422	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|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||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^**1809731010 3**||||||||||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=48551000124100 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 Cryptosporidum 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 Cryptosporidum 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 Refuse	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 Refuse	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 Refuse	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 Refuse	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 (Lis	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 Refuse	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^Doxycycline^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 Refuse	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

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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^Doxycycline^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 (FI	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

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End: Outbreak Questions															
Begin: Escherichia Coli STEC Questions															
E. Coli O157 Antigen Test Result	44087-5	LN	For possible *E.coli* 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 E. coli, was it H7 antigen positive?	Coded	P	N	Yes No Unknown Not Do	PHVS_YesNoUnkNotDone_CDC	OBX segment with OBX-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 Stool7^LN||N^No^HL70136||||||F
STEC H Antigen Number	FDD_Q_900	PHINQUESTION	If E. coli, 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 E. coli, 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 E. coli, was it O157 positive?	Coded	P	N	Yes No Unknown Not Do	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 E. coli, 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 E. coli Shiga toxin-producing?	Coded	P	N	Yes No Unknown Not Do	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 (FD	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_FDD	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 Sou	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 repurpo						
It simply provides a place to pass the associated laboratory report data that may be useful for CDC progra						
Please refer to the ELR specification for more details regarding OBR/OBX/SPM interaction (specimen orier						
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
"Laboratory Information" category OBR segment with an OBR-4 value of '30954-2^Laboratory Information^L							
s/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1107) to identify the laboratory information.							
ose the ELR message, nor does it impose any of the additional requirements and constraints that are in the I							
ms.							
nted OBRs), OBRs for multiple specimens, parent-child lab tests/reflex tests, susceptibilities, and other com							
nts one ORDER_OBSERVATION Group in the message.							
to the condition in the case notification are available in the surveillance data system.							
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_Specimen ActionCode_H L7_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 Resul	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 Measu	PHVS_UnitsOfMeasure_CDC	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_AbnormalFlag_HL7_27	OBX segment with OBX-8=value from value set	IS	RE	[0..*]
R	N	Observation Re	PHVS_ObservationResultStatus_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_LabTestMethods_CDC	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_CDC	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|||
The value of 'G' indicates "Generated order; reflex order". If 'G' value is provided OBR-26 and OBR-29 **SHOULD** be populated. (refer to ELR implementation guide for more details)	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||||||||121121121^^^^^^^^NPI&2.16.840.1.113883.4.6&ISO^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||||||||
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&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 Immunoassay&LN^1**||| HEP23456-
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|||||
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|||
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&ISO^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^XX^^^1236||9876543^^^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^^^^NPI

OBX-4 is used to group related observations.	N/A	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^XX^^^1236||9876543^^^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^^^^NPI
"PHVS_LabTestResultQualitative_CDC" is the broader VADS value set from ELR that contains wide range of coded qualitative results. "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.	N/A	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^XX^^^1236||9876543^^^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^^^^NPI
"PHVS_Microorganism_CDC" is the broader VADS value set from ELR that contains all the lab result organisms.	N/A	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^XX^^^1236||9876543^^^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^^^^NPI
	N/A	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
	N/A	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
	N/A	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^XX^^^1236||9876543^^^^^^^^NPI&1.3.6.1.4.1.562.2.4.1.43&ISO^^^^NPI

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.	N/A	OBX|1|ED|PDF^PDFName|| ^TEXT^^Base64^JVBERi0xLjUNCiW1tbW1DQoxIDAgb2JqD… HJlZg0KMzU3MTk2DQolJUVPRg==||||||F||| 20140225|||||20140226||||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
Optional OBX for capturing isolate identifiers. The isolate identifier of the sample being tested. Typically the Isolate ID from the Specimen ID Filler Assigned Identifier,	N/A	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
	N/A	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
OBX-8 in ELR is noted to have pre-adopted the CWE datatype.	N/A	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
	N/A	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^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^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^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&IS O^^^^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&IS O^^^^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&I SO^^^^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^HEP97 00122-1&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

	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**