

TABLE 5-1. MESSAGE PROFILE ATTRIBUTES

Abbreviation	Definition
Segment	<ul style="list-style-type: none"> • Three-character code for the segment and the abstract syntax (e.g., the square and curly braces). Note that for segment groups there is no segment code present, but the square and curly braces will still be present. • [XXX] Optional • { XXX } Repeating • XXX Required • [{ XXX }] Optional and Repeating
Name	Name of the segment or segment group element.
Usage	Use of the segment for PHLIP. Indicates if the segment is required, optional, or conditional in a message. Legal values are: <ul style="list-style-type: none"> • R – Required. Must always be populated. • O – Optional. • C – Conditional. Must be populated based on computable Conditionality Statement. • X – Not used.
Cardinality	Minimum and maximum number of times the segment may appear. <ul style="list-style-type: none"> • [0..0] Segment never present. • [0..1] Segment may be omitted and can have, at most, one occurrence. • [1..1] Segment must have exactly one occurrence. • [0..n] Segment may be omitted or may repeat up to <i>n</i> times. • [1..n] Segment must appear at least once, and may repeat up to <i>n</i> times. • [0..*] Segment may be omitted or repeat an unlimited number of times. • [1..*] Segment must appear at least once, and may repeat unlimited number of times. • [m..n] Segment must appear at least <i>m</i> and at most <i>n</i> times.
Description	Explanation of the use of the segment.

1.1 HL7 V2.3.1 MESSAGE ORU^R01 SYNTAX

The 2.3.1 version ORU^R01 abstract message has been constrained for PHLIP Influenza Test Result Reporting as follows:

TABLE 5-2. HL7 V2.3.1 MESSAGE ORU^R01 SYNTAX

Segment	Name	Usage	Cardinality	Description
Header	<i>HEADER Begin</i>	R	[1..1]	

Public reporting burden of this collection of information is estimated to average 5 minutes per response. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-24, Atlanta, Georgia 30333; ATTN: PRA (0920-0004).

MSH	Message Header	R	[1..1]	The Message Header (MSH) Segment contains information explaining how to parse and process the message. This includes identification of message delimiters, sender, receiver, message type, timestamp, etc.
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Segment	Name	Usage	Cardinality	Description
	HEADER End			
	PATIENT GROUP Begin	R	[1..1]	The Patient Group is required for PHLIP. This is a deviation from the HL7 Version 2.3.1 standard.
PID	Patient Identification	R	[1..1]	The Patient Identification (PID) segment contains patient identifying and demographic information. The PID is required for PHLIP.
[NK1]	Next-of-Kin/ Associated Parties	O	[0..1]	The Next-of-Kin/Associated Parties (NK1) segment contains the relationship information of patient and others. If the subject of the testing is something other than a person, the NK1 will document the person or organization responsible for, or owning, the subject. For patients who are persons, the NK1 documents the next of kin of the patient.
[NTE]	Notes and Comments	O	[0..*]	The Notes and Comments (NTE) segment for the NK1 Segment can be used to carry any associated party's related comments.
	PATIENT GROUP End			
	ORDER_OBSERVATION Begin	R	[1..*]	The Order_Observation group is required and may repeat. This means that multiple test results may be reported on a single specimen.
[ORC]	Common Order	O	[0..1]	The Common Order (ORC) segment identifies basic information about the order for testing of the specimen. This segment includes identifiers for the order, who placed the order , when it was placed, etc.
OBR	Observation Request	R	[1..1]	The Observation Request (OBR) segment is used to capture information about a single test being performed on the specimen, or to report information about patient and specimen.
[NTE]	Notes and Comments	O	[0..*]	The Notes and Comments (NTE) segment for the OBR Segment can be used to carry any order-related comments.

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TABLE 5-2. HL7 V2.3.1 MESSAGE ORU^R01 SYNTAX

Segment Name	Name	Usage	Cardinality	Description
{	OBSERVATION Begin	R	[1..*]	For PHLIP, the Observation group is required in the ORU^R01 message. This is a deviation from the HL7 Version 2.3.1 standard.
OBX	Observation/Result	R	[1..1]	The Observation/Result (OBX) segment following the OBR is used for observations regarding the test ordered. For instance, this may be used to capture test results, the specimen identifying information, and epidemiologically important information regarding the case diagnosis, such as patient vaccination history, travel history, treatment history, etc. For PHLIP, the OBX is required in the ORU^R01 message. This is a deviation from the HL7 Version 2.3.1 standard.
[NTE]	Notes and Comments	O	[0..*]	The Notes and Comments (NTE) segment for the OBX segment can be used to carry any observation-related comments.
}	OBSERVATION End			
}	ORDER_OBSERVATION End			

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I.2 SEGMENT PROFILE ATTRIBUTES

Fields or components that are NOT documented in this guide are considered NOT SUPPORTED. Inclusion of any field or component that is not supported will result in the creation of an error message.

The abbreviated terms and their definitions used in the ORU^R01 segment profile are detailed in the following table.

TABLE 5-3. SEGMENT PROFILE ATTRIBUTES

Abbreviation	Definition
Seq	Sequence of the elements as they are numbered in the HL7 segment.

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TABLE 5-3. SEGMENT PROFILE ATTRIBUTES

Abbreviation	Definition
Len	<p>PHIN maximum length of the element. Length of an element is calculated using the following rules: Field length = (Sum of all supported component lengths) + (component number of the last supported component) – 1. Component length = (Sum of all supported sub-component lengths) + (sub-component number of the last supported component) – 1. Lengths should be considered recommendations, not absolutes. The receiver can truncate fields, components and sub-components that are longer than the recommended length. The receiver should continue to process a message even when a field, component, or sub-component length exceeds the maximum recommended length identified in this specification.</p>
DT	<p>Data type used by PHIN for HL7 element.</p>
Usage	<p>Indicator whether a data element is required, optional, or conditional in a message. Legal values are:</p> <ul style="list-style-type: none"> • R Required. Must always be populated. May use "" (two sets of quote marks) for a null value if no specific value is delineated in the Description column of the table. • RE¹ Required, but may be empty (no values, no quotes) • O Optional. • C Conditional, must be populated, when condition is met, must be empty if condition is not met. • CE Conditional, must be populated, but may be empty when condition is met, must be empty if condition is not met, • X Not used. <p>Note: A required field in an optional segment does not mean the segment must be present in the message. It means that if the segment is present, the required fields within that segment must be populated. The same applies to required components of optional fields. If the field is being populated, then the required components must be populated. The same applies to required sub-components of optional components. If a component is being populated, then the required sub-components of that component must be populated.</p>

¹ The element may be missing from the message, but must be sent by sending application if there is relevant data. A conforming sending application must be capable of providing all 'RE' elements. If conforming sending application knows required values for the element, it must send that element. If conforming sending application does not know the required values, then that element will be omitted.

Receiving applications will be expected to process (save/print/archive, etc.) or ignore data contained in the element, but must be able to successfully process the message if the element is omitted (no error message should be generated because the element is missing).

Health Level Seven, Version 2.5, July 2003, Section 2.12.6.2

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TABLE 5-3. SEGMENT PROFILE ATTRIBUTES

Abbreviation	Definition
Cardinality	Minimum and maximum number of times the segment may appear. <ul style="list-style-type: none"> • [0..0] Segment never present. • [0..1] Segment may be omitted and can have, at most, one occurrence. • [1..1] Segment must have exactly one occurrence. • [0..n] Segment may be omitted or may repeat up to <i>n</i> times. • [1..n] Segment must appear at least once, and may repeat up to <i>n</i> times. • [0..*] Segment may be omitted or repeat an unlimited number of times. • [1..*] Segment must appear at least once, and may repeat unlimited number of times. • [m..n] Segment must appear at least <i>m</i> and at most <i>n</i> times.
Value Set Name	Pre-coordinated tables used in public health messages, accessible via the Public Health Information Network Vocabulary Access and Distribution Services at http://www.cdc.gov/PhinVSBrowser/StrutsController.do .
HL7 Tbl	The HL7 table number as defined in the HL7 V2.3.1 (1999) standard.
Element Name	Descriptive name of the data element.
Description	Explanation of the use of the field/component/sub-component.

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I.3 MESSAGE HEADER (MSH) SEGMENT LEVEL PROFILE

The MSH Segment is used to define the intent, source, destination, and some specifics of the syntax of the message. This segment includes identification of message delimiters, sender, receiver, message type, timestamp, etc. The message header is required for the test result message.

TABLE 5-4. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	1	ST	R	[1..1]		Field Separator	Character to be used as the field separator for the rest of the message. The supported value is , ASCII (124).
2	4	ST	R	[1..1]		Encoding Characters	Literal value: '^~&'.
3	224	HD	O	[0..1]		Sending Application	Field that may be used to uniquely identify the sending application for messaging purposes. If populated, it will contain an OID that represents the sending application instance. For this version of PHLIP, the sending application will be the name and OID from the state that is sending the message.
3.1	20	IS	RE	[0..1]		Namespace ID	Laboratory information system name.
3.2	199	ST	R	[1..1]		Universal ID	OID.
3.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'.
4	224	HD	R	[1..1]		Sending Facility	Unique identifier of the facility that sends the message. The sending facility must be part of the PHIN OID registry. For this version of PHLIP, the sending facility will be the name and OID from the state that is sending the message.
4.1	20	IS	RE	[0..1]		Namespace ID	Laboratory name.
4.2	199	ST	R	[1..1]		Universal ID	OID.

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TABLE 5-4. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
4.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'
5	224	HD	O	[0..1]		Receiving Application	Unique identifier of the receiving application for messaging purposes. If populated, it will contain an OID that represents the receiving application instance. For this version of PHLIP, the receiving application will always be the CDC application, as denoted in MSH-5.1 and MSH-5.2.
5.1	20	IS	RE	[0..1]		Namespace ID	Laboratory information system name. Literal value: 'US WHO Collab LabSys'
5.2	199	ST	R	[1..1]		Universal ID	Literal value: '2.16.840.1.114222.4.3.3.7'
5.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'
6	224	HD	R	[1..1]		Receiving Facility	Unique identifier of the facility that is to receive the message. This unique identifier must be part of the PHIN OID registry. For this version of PHLIP, the receiving facility will always be the CDC facility, as denoted in MSH-6.1 & MSH-6.2.
6.1	20	IS	RE	[0..1]		Namespace ID	Laboratory name. Literal value: 'CDC-EPI Surv Branch'
6.2	199	ST	R	[1..1]		Universal ID	Literal value: '2.16.840.1.114222.4.1.10416'
6.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'
7	26	TS	R	[1..1]		Date/Time of Message	Date and time the message was created by the sending system. The user inputs values for the field only as far as needed. When a system has only a partial date/time, e.g., month, day, and year, but not hour and minute, the missing values may be interpreted as zeros.

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TABLE 5-4. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
7.1	24	DTM	R	[1..1]		Time	YYYY[MMDD[HH[MM[SS[S[S[S[S]]]]]]]]+/-ZZZZ], where at least the first fourteen are used to specify to a precision of "second." The time zone (+/-ZZZZ) is represented as +/-HHMM offset from Coordinated Universal Time (UTC) (formerly Greenwich Mean Time [GMT]), where +0000 or -0000 both represent UTC (without offset). It is strongly recommended that the time zone be used in PHIN messaging.
9	7	CM	R	[1..1]		Message Type	Literal value: 'ORU^R01'.
9.1	3	ID	R	[1..1]		Message Code	Literal value: 'ORU'. Null flavors are not allowed.
9.2	3	ID	R	[1..1]		Trigger Event	Literal value: 'R01'. Null flavors are not allowed.
9.3	3	ID	?	?		Message Structure	Literal value: 'ORU_R01'. Null flavors are not allowed.
10	30	ST	R	[1..1]		Message Control ID	String that uniquely identifies the message instance from the sending application. Recommended to use a counter.
11	3	PT	R	[1..1]	Processing ID (HL7)table# HL70103	Processing ID	Indicator of the intent for processing the message, such as "T" - training, "D" - de-bugging, or "P" - production. For PHLIP, this field will always contain "P."
12	60	VID	R	[1..1]		Version ID	Literal value: "2.3.1."
21	424	EI	R	[1..1]		Message Profile Identifier	Field used to reference or assert adherence to a message profile. Message profiles contain detailed explanations of grammar, syntax, and usage for a particular message or set of messages.

TABLE 5-4. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
21.1	199	ST	R	[1..1]		Entity Identifier	Literal value: 'PHLIP_ORU_v1.0.2'
21.2	20	IS	RE	[1..1]		Namespace ID	Recommended value: 'PHIN_Profile_ID'.
21.3	199	ST	R	[1..1]		Universal ID	First instance literal value: '2.16.840.1.114222.4.10.3'.
21.4	3	ID	R	[1..1]	Constrained HL7 table #301	Universal ID Type	Literal value: 'ISO'

I.4 PATIENT IDENTIFICATION (PID) SEGMENT LEVEL PROFILE

The PID Segment is used as the primary means of communicating patient identification information. This segment contains pertinent patient identifying and demographic information. The PID Segment is required in the patient group. For PHLIP, the patient group is required. If the message sender has detailed patient information, and that information is needed/required by the message receiver, this patient group will be used. For the PHLIP influenza test result message, only one PID Segment is expected per message. If the message sender does not have sufficient information to construct a legal PID Segment, such as a patient name and patient ID, the message sender should send the default data as noted in the Description column, below.

TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1..1]		Set ID - PID	Literal value: "1."
3	564	CX	R	[1..*]		Patient Identifier List	This field contains the list of identifiers (one or more) used by the facility to uniquely identify a patient (e.g., medical record number, billing number, birth registry, national unique individual identifier, etc.)

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TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
3.1	30	ST	R	[1..1]		Patient ID	. The assigning authority is required for PHLIP. Do NOT send social security numbers at all! <i>Note: If no Patient ID is available, the Specimen ID should be defaulted into this field. For PHLIP, the Specimen ID will be an observation sent in OBX-5 (Observation Value) with a data type of "CX." In the case where the Specimen ID is used in place of the Patient ID, it should also be a separate OBX.</i>
3.4	252	HD	R	[1..1]		Assigning Authority	Entity that assigned the Identifier.
3.4.1	48	IS	O	[0..1]		Namespace ID	
3.4.2	199	ST	R	[1..1]		Universal ID	OID.
3.4.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'.
3.5	25	IS	R	[1..1]	Identifier Type Composite value set: values from HL7 table# 203 or PHVS_IdentifierType _CDC	Identifier Type Code	
3.6	252	HD	O	[0..1]		Assigning Facility	Facility that assigned the Identifier.
3.6.1	48	IS	R	[1..1]		Namespace	
3.6.2	199	ST	R	[1..1]		Universal ID	OID.
3.6.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'.

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TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
5	236	XPN	R	[0..*]		Patient Name	Do not send patient name - the default value for this field SHALL be: The 1 st repeat of PID-5 empty. The 2 nd repeat shall contain an "S" (code for pseudonym) in the Name Type Code component (~^^^^^S)
7	26	TS	RE	[0..1]		Date/Time of Birth	Patient's date and time of birth.
8	1	IS	RE	[0..1]	Administrative Sex (HL7) table# 1	Sex	Patient's sex.
10	703	CE	RE	[0..*]		Race	Patient's race(s).
10.1	50	ST	C	[0..1]	Race Category (PHVS_Race_CDC)	Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
10.2	100	ST	O	[0..1]		Text	Standardized description.
10.3	199	ID	C	[0..1]	Coding System (HL7) table# 396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
10.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.

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TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
10.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
10.6	199	ID	C	[0..1]		Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
11	608	XAD	RE	[0..*]		Patient Address	Residence address of the patient. If multiple patient addresses are sent, the 1 st repeat should contain the patient's primary address. <i>Note: If the state is not sent in the message, the receiver should default the sending system's state in PID-11.4.</i>
11.1	100	ST	RE	[0..1]		Street Address	
11.2	100	ST	RE	[0..1]		Other Designation	
11.3	100	ST	RE	[0..1]		City	
11.4	20	ST	RE	[0..1]	State (FIPS_5-2)	State or Province	Reference the FIPS 5-2 alpha codes here, though this is not a coded field, so no coding system will be identified.
11.5	10	ST	RE	[0..1]		Zip or Postal Code	US Zip Codes, Zip+4 and Canadian Postal Codes will be supported.
11.6	100	ID	RE	[0..1]	Country (PH_Country_ISO_3166-1)	Country	

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TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
11.7	20	ID	RE	[0..1]	Address Type (HL7) table# 190	Address Type	
11.8	50	ST	RE	[0..1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf
11.9	100	IS	RE	[0..1]	County (PH_County_FIPS_6-4)	County/Parish	
22	703	CE	RE	[0..1]		Ethnic Group	Field that defines the patient as Hispanic, Non-Hispanic or Unknown.
22.1	50	ST	C	[0..1]	Ethnicity Group (PHVS_Ethnicity_CD C) including Unknown (subset of PH_NullFlavor_HL7_V3)	Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
22.2	100	ST	O	[0..1]		Text	Standardized description.
22.3	199	ID	C	[0..1]	Coding system (HL7) table 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
22.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.

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TABLE 5-5. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
22.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is Coded. Rule of conditionality: Required if no standardized code or local code value passed.
22.6	199	ID	C	[0..1]		Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
29	26	TS	RE	[0..1]		Patient Death Date and Time	Date and time of patient's death, if the patient is known to be deceased at the time of the message.
30	1	ID	RE	[0..1]	Yes No Indicator (HL7)table# 136	Patient Death Indicator	Indicator (Y) of patient's death , #death if the patient is known to be deceased at the time of the message. If unknown, this field should be empty (no value, no quotes).

I.5 NEXT OF KIN/ASSOCIATED PARTIES (NKI) SEGMENT LEVEL PROFILE

The NKI Segment contains information regarding the patient's other related parties.

TABLE 5-6. NEXT OF KIN/ASSOCIATED PARTIES (NKI) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1..1]		Set ID - NK1	Literal Value: "1."
2	236	XPN	RE	[0..1]		Name	Name of the next of kin or associated party.

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TABLE 5-6. NEXT OF KIN/ASSOCIATED PARTIES (NKI) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
2.1	50	ST	R	[1..1]		Last Name	
2.2	50	ST	R	[1..1]		First Name	
2.3	50	ST	RE	[0..1]		Middle Initial/Middle Name	
2.4	20	ST	RE	[0..1]		Suffix	
2.5	20	ST	RE	[0..1]		Prefix	
2.6	20	IS	RE	[0..1]	Degree License Certification (HL7) table# 360	Degree	
2.7	20	ID	RE	[0..1]	Name Type (HL7) table# 200	Name Type Code	
3	703	CE	RE	[0..1]		Relationship	Description of the relationship between the next of kin/related party and the patient.
3.1	50	ST	C	[0..1]	Relationship (HL7) table# 63	Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
3.2	100	ST	O	[0..1]		Text	Standardized description.
3.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.

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TABLE 5-6. NEXT OF KIN/ASSOCIATED PARTIES (NK1) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
3.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
3.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is Coded. Rule of conditionality: Required if no standardized code or local code value passed.
3.6	199	ID	C	[0..1]		Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
4	608	XAD	O	[0..*]		Address	The address of the next of kin/associated party. If multiple addresses are sent, the 1st repeat should contain the next of kin's primary address. <i>Note: If the state is not sent in the message, the receiver should default the sending system's state in NK1-4.4</i>
4.1	100	ST	O	[0..1]		Street Address	
4.2	100	ST	O	[0..1]		Other Designation	
4.3	100	ST	O	[0..1]		City	
4.4	20	ST	RE	[0..1]	State (FIPS_5-2)	State or Province	Reference the FIPS 5-2 alpha codes here, though this is not a coded field, so no coding system will be identified.

TABLE 5-6. NEXT OF KIN/ASSOCIATED PARTIES (NK1) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
4.5	10	ST	O	[0..1]		Zip or Postal Code	US Zip Codes, Zip+4 and Canadian Postal Codes will be supported.
4.6	100	ID	O	[0..1]	Country (PH_Country_ISO_3166-1)	Country	
4.7	20	ID	RE	[0..1]	Address Type (HL7) table# 190	Address Type	
4.8	50	ST	O	[0..1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf
4.9	100	IS	O	[0..1]	County (PH_County_FIPS_6-4)	County/Parish	http://www.census.gov/geo/www/fips/fips.html

I.6 COMMON ORDER (ORC) SEGMENT LEVEL PROFILE

The ORC Segment is used to transmit test order information. This segment includes identifiers for the order, who placed the order, when order when it was placed, etc. The ORC Segment is optional in the Test Result (ORU) message. Any information that could be included in either the ORC or the OBR must be included in the OBR on reporting.

TABLE 5-7. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	2	ID	R	[1..1]	Order Control Code (HL7) table# 119	Order Control	Order action to be performed with this specific order message. For the PHLIP result message, "RE" (observations to follow) is used.

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TABLE 5-7. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
2	255	EI	RE	[0..1]		Placer Order Number	Unique identifying number assigned to the test request or order by the system that initiated the request for performance of the test. <i>Note: The same value is populated in ORC.2 and OBR.2.</i>
2.1	30	ST	R	[1..1]		Entity Identifier	
2.2	20	IS	RE	[0..1]		Namespace ID	Assigning authority.
2.3	199	ST	R	[1..1]		Universal ID	Field required to contain an assigning authority OID for the application/ organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
2.4	3	ID	RE	[0..1]		Universal ID type	Literal value: 'ISO'.
3	255	EI	R	[1..1]		Filler Order Number	Order number associated with the filling application. <i>Note: The same value is populated in ORC.3 and OBR.3.</i>
3.1	30	ST	R	[1..1]		Entity Identifier	
3.2	20	IS	RE	[0..1]		Namespace ID	
3.3	199	ST	RE	[0..1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
3.4	3	ID	RE	[0..1]		Universal ID Type	Literal value: 'ISO'.
5	2	ID	RE	[0..1]	Order Status (HL7) table# 38	Order Status	Status of an order.

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TABLE 5-7. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
21	50	XON	RE	[0..1]		Ordering Facility Name	Name of the facility that placed the order.
21.1	50	ST	R	[1..1]		Organization Name	
22	608	XAD	RE	[0..*]		Ordering Facility Address	Address of the facility that placed the order. If multiple addresses are sent, the 1st repeat should contain the ordering facility's primary address. <i>Note: If the state is not sent in the message, the receiver should default the sending system's state in ORC-22.4.</i>
22.1	100	ST	O	[0..1]		Street Address	
22.2	100	ST	O	[0..1]		Other Designation	
22.3	100	ST	O	[0..1]		City	
22.4	20	ST	R	[1..1]	State (FIPS_5-2)	State or Province	Reference the FIPS 5-2 alpha codes here
22.5	10	ST	O	[0..1]		Zip/Postal Code	US Zip Codes, Zip+4 and Canadian Postal Codes will be supported.
22.6	100	ID	O	[0..1]	Country (PH_Country_ISO_3166-1)	Country	
22.7	20	ID	RE	[0..1]	Address Type (HL7) table# 190	Address Type	
22.8	50	ST	O	[0..1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf

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TABLE 5-7. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
22.9	100	IS	RE	[0..1]	County (PH_County_FIPS_6-4)	County/Parish	
23	211	XTN	RE	[0..*]		Ordering Facility Phone Number	Telephone number of the facility placing the order. The receiver must minimally support the 1 st repeat when populating this field. Email address, if sent, is a separate "repeat" with appropriate Telecommunication Use Code and Telecommunication Equipment Type.
23.2	20	ID	RE	[0..1]	Telecommunication Use Code (HL7) table# 201	Telecom use code	
23.3	100	ST	RE	[0..1]	Telecommunication Equipment Type (HL7) table# 202	Telecom Equipment Type	
23.4	20	ST	RE	[0..1]		Email Address	Example of email address format: x@x.x
23.5	3	NM	RE	[0..1]		Country Code	
23.6	3	NM	RE	[0..1]		Area Code	Look-up service for area codes: http://www.nanpa.com/nas/public/npa_query_step1.do?method=resetNpaReportModel
23.7	17	NM	RE	[0..1]		Phone Number	
23.8	20	NM	RE	[0..1]		Extension	
23.9	20	ST	RE	[0..1]		Any Text	

I.7 OBSERVATION REQUEST (OBR) SEGMENT LEVEL PROFILE

The OBR Segment in the Test Result Message (ORU) is used to capture information about one test being performed on the specimen or report information about patient and specimen.

Note: For PHLIP, only one specimen is allowed per ORU^R01 message.

TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1..1]		Set ID - OBR	Sequence number of the OBR in relation to the Result message to which it refers. The sequence number should start at 1 and be incremented by 1 for each OBR in the result message.
2	255	EI	RE	[0..1]		Placer Order Number	Unique identifying number assigned to the test request or order by the system that initiated the request for performance of the test. <i>Note: The same value is populated in ORC.2 and OBR.2.</i>
2.1	30	ST	R	[1..1]		Entity Identifier	
2.2	20	IS	RE	[0..1]		Namespace ID	Assigning authority.
2.3	199	ST	R	[1..1]		Universal ID	Field required to contain an assigning authority OID for the application/ organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
2.4	3	ID	RE	[0..1]		Universal ID Type	Literal value: 'ISO'.
3	255	EI	R	[1..1]		Filler Order Number	Order number associated with the filling application. <i>Note: The same value is populated in ORC.3 and OBR.3.</i>
3.1	30	ST	R	[1..1]		Entity Identifier	

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
3.2	20	IS	RE	[0..1]		Namespace ID	
3.3	199	ST	RE	[0..1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
3.4	3	ID	RE	[0..1]		Universal ID Type	Literal value: 'ISO'.
4	643	CE	R	[1..1]		Universal Service ID	Identifier code for the test. This will be used to pass PHLIP orderable test codes.
4.1	20	ST	C	[0..1]	Lab Test Order (PHLIP Flu) (Composite value set: values from LOINC and PLT)	Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
4.2	100	ST	O	[0..1]		Text	Standardized description.
4.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
4.4	20	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
4.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
4.6	199	ID	C	[0..1]		Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
7	26	TS	R	[1..1]		Observation Date/Time	The date and time the specimen was collected. A minimum of year, month and day must be provided when the actual date/time is known. For unknown collection date/time use "0000".
10	337	XCN	O	[0..1]		Collector Identifier	This field will identify the person, department or facility that collected the specimen.
10.1	100	ST	O	[0..1]		ID Number	
10.2	50	ST	O	[0..1]		Family Name	
10.3	50	ST	O	[0..1]		Given Name	
10.4	50	ST	O	[0..1]		Middle Name/Initial	
10.5	20	ST	O	[0..1]		Suffix	
10.6	20	ST	O	[0..1]		Prefix	
10.7	20	IS	O	[0..1]		Degree	
10.10	20	IS	O	[0..1]		Name Type Code	

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
14	26	TS	RE	[0..1]		Specimen Received Date/Time	Date and time specimen is received at the submitter.
15	1060	CM	R	[1..1]		Specimen Source	Identifier of the type and/or source of specimen on which a test is performed.
15.1	703	CE	R	[1..1]	Specimen Source (HL7) table#70	Specimen Source Name or Code	Identifier of the type and/or source of specimen on which a test is performed. The SNOMED CT specimen concepts will not be used to encode this component in PHLIP. For this version of PHLIP, the HL7 table 0070 will be used as the reference table for OBR 15.1. If specimen source is not known, enter the HL7 table 0070 item: "USUB" and "Unknown substance" in the sub-components OBR-15.1.1 & 15.1.2, respectively.
15.1.1	50	ST	R	[1..1]		Identifier	Standardized code. The standard code sub-component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. If the specimen source is not listed in table 0070, enter "ORH" and "Other" in sub-components 15.1.1 & 15.1.2, with the description of the specimen source in sub-component 15.1.5 (Alternate Text).
15.1.2	100	ST	O	[0..1]		Text	Standardized description.

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
15.1.3	199	ID	R	[1..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
15.1.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code sub-component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in sub-component 5.
15.1.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if standard code (15.1.1) is "ORH" .
15.1.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
15.4	354	CE	O	[0..1]		Body Site	For PHLIP, the 1 st 3 sub-components of 15.4 are not supported. The local information will be entered in the Alternate Text sub-component OBR-15.4.5

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
15.4.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code sub-component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in sub-component 5.
15.4.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
15.4.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
16	591	XCN	RE	[0..1]		Ordering Provider	Identifier of the provider who ordered the testing being performed.
16.1	100	ST	RE	[0..1]		Ordering Provider ID	
16.2	50	ST	RE	[0..1]		Last Name	
16.3	50	ST	RE	[0..1]		First Name	
16.4	50	ST	RE	[0..1]		Middle Initial/Middle Name	
16.5	20	ST	RE	[0..1]		Suffix	
16.6	20	ST	RE	[0..1]		Prefix	

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
16.7	20	IS	RE	[0..1]	Degree License Certification (HL7) table# 360	Degree	
16.9	252	HD	O	[0..1]		Assigning Authority	Entity that assigned the ID.
16.9.1	48	IS	R	[1..1]		Namespace ID	
16.9.2	199	ST	R	[1..1]		Universal ID	OID.
16.9.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'
16.10	20	ID	RE	[0..1]	Name Type (HL7) table# 200	Name Type Code	
17	211	XTN	RE	[0..*]		Order Callback Phone Number	Phone number that can be called to obtain additional clarification regarding the order. <i>Note: The receiver must minimally support the 1st repeat when populating this field.</i> Email address, if sent, is a separate "Repeat" with appropriate Telecommunication Use Code and Telecommunication Equipment Type.
17.2	20	ID	RE	[0..1]	Telecommunication Use Code (HL7) table# 201	Telecom Use Code	
17.3	100	ST	RE	[0..1]	Telecommunication Equipment Type (HL7) table# 202	Telecom Equipment Type	
17.4	20	ST	RE	[0..1]		Email Address	Example of email address format: x@x.x
17.5	3	NM	RE	[0..1]		Country Code	

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
17.6	3	NM	RE	[0..1]		Area Code	Look-up service for area codes: http://www.nanpa.com/nas/public/npa_query_step1.do?method=resetNpaReportModel
17.7	17	NM	RE	[0..1]		Phone Number	
17.8	20	NM	RE	[0..1]		Extension	
17.9	20	ST	RE	[0..1]		Any Text	
22	26	TS	RE	[0..1]		Results Rpt/Status Change - Date/Time	Date/time the results were reported <u>reported</u> , or status changed.
25	1	ID	R	[1..1]	Result Status (HL7 table# 123)	Result Status	Status of results for this order. Corrected Results: A corrected result occurs when a previously final result report (i.e., an OBR and associated OBXs where OBR-25 was Final and all OBX-11s were Final) is being resent with a change to a value in one or more OBXs. OBR-25 (Result Status): The status of the entire report is marked as "C-Corrected" in OBR-25. OBX-11 (Observation Result Status): The status of each OBX is marked as either "Final" or "Corrected." Those OBX values being corrected should have an OBX-11 status of "C-Corrected." Those OBX values that remain unchanged should have an OBX-11 status of "F-Final." A minimum of one OBX must be marked as corrected.
26	745	CM	RE	[0..1]		Parent Result	Field defined to make it available for linkages between the parent result and its children result. This important information, together with the information in OBR.29 Parent, uniquely identifies the OBX Segment of the

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
							parent result related to this order.
26.1	623	CE	RE	[0..1]		OBX-3 (Observation Identifier) of Parent Result	
26.1.1	50	ST	C	[0..1]		Identifier	Standardized code. Rule of conditionality: The standard code sub-component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
26.1.2	100	ST	O	[0..1]		Text	Standardized description.
26.1.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
26.1.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code sub-component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in sub-component 5.
26.1.5	199	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.

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TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
26.1.6	20	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
26.2	20	ST	O	[0..1]		OBX-4 (Sub-ID) of Parent Result	
26.3	100	TX	RE	[0..1]		Part of OBX-5 (Observation Result) from Parent Result	The description of the organism from OBX-5, which will have a data type of "ST" or "TX."
29	511	CM	RE	[0..1]		Parent	Parent ID number. Field that relates a child to its parent when a parent-child relationship exists.
29.1	255	EI	RE	[0..1]		Placer Order Number of Parent Result	From ORC-2 (Placer Order Number) or OBR-2 (Placer Order Number) of parent.
29.1.1	30	ST	R	[1..1]		Entity Identifier	
29.1.2	20	IS	RE	[0..1]		Namespace ID	
29.1.3	199	ST	RE	[0..1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
29.1.4	3	ID	RE	[0..1]		Universal ID Type	Literal value: 'ISO'.
29.2	255	EI	R	[1..1]		Filler Order Number of Parent Result	From ORC-3 (Filler Order Number) or OBR-3 (Filler Order Number) of parent.
29.2.1	30	ST	R	[1..1]		Entity Identifier	

TABLE 5-8. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
29.2.2	20	IS	RE	[0..1]		Namespace ID	
29.2.3	199	ST	RE	[0..1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
29.2.4	3	ID	RE	[0..1]		Universal ID Type	Literal value: 'ISO'.

I.8 OBSERVATION/RESULT (OBX) SEGMENT LEVEL PROFILE

The OBX Segment in the Test Result (ORU) Message is used to transmit observations related to the test result and other information about patient and specimen, including test result, specimen-related information (such as specimen IDs from both the test order and the test filler), additional information passed by the test order, etc.

TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1..1]		Set ID - OBX	Sequence number of the OBX in relation to the OBR Segment to which it refers. The sequence number should start at 1 and increment by 1 for each OBX in the Order_Observation group.
2	3	ID	R	[1..1]	Value Type (HL7) table# 125	Value Type	Field in which allowed values are "CE," "CX," "NM," "SN," "ST," "TS" and "TX." The CE data type is used primarily to convey epidemiologically important information and coded lab results like organism name. The CX data type is used

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
							primarily to convey additional specimen identifiers in OBXs. The NM data type is used to report a numeric value. The SN data type is used to report a numeric clinical value with qualifications. The ST data type is used to report a short string of text. The TS data type is used to convey the date/time of illness onset. The TX data type is used to carry a large text observation.
3	703	CE	R	[1..1]	Resulted Lab Test Name (PHLIP Flu) (Composite value set: values from LOINC and PLT) or PHLIP Questions (Flu) (Composite value set: values from LOINC and PHINQUESTIONS)	Observation Identifier	Unique identifier for the observation. This field will be populated by either a resulted test identifier or an identifier for an observation related to patient or specimen information (EPI question).
3.1	50	ST	C	[0..1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard.
3.2	100	ST	O	[0..1]		Text	Standardized description.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
3.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
3.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
3.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed. Not required but recommended to always send local codes.
3.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
4	20	ST	CE	[0..1]		Observation Sub-ID	Conditionality Rule: Field required if there is more than one OBX with the same OBX.3 (Observation Identifier) associated with the same OBR. Normally, this field is populated with a number, but text values may also be used.
5	65536	Varies Varies S- see below w	Varies Varies S by data type	[0..*]		Observation Value	Actual observation associated with the test order. The data type in OBX.2 Value Type indicates the format of the observation.
5	703	CE	C	[0..1]	Lab Test Result (PHLIP Flu) Composite value set: values from SNOMED CT and PLR) or Patient Location Status at Specimen Collection (Composite value set:HL7 table# 4 and PH_HealthcareProviderTaxonomy_HIPAA) or Yes No Unknown (YNU) Composite value set: values from HI7 table#136 and NullFlavor_HL7_V3 or Country (ISO_3166-1)	Observation Value	Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'. This data type transmits a code and the text associated with the code.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
5.1	50	ST	C	[0..1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
5.2	100	ST	O	[0..1]		Text	Standardized Description
5.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
5.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
5.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the value type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
5.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
5	285	CX	R	[1..1]		Observation Value	The CX data type is used to carry the specimen ID from the filler.
5.1	30	ST	R	[1..1]		Specimen ID	The laboratory-generated (local) number that identifies the specimen related to the test. <i>Note: PHLIP only supports 1 specimen per message.</i>
5.4	252	HD	R	[1..1]		Assigning Authority	Entity that assigned the ID.
5.4.1	48	IS	O	[0..1]		Namespace ID	
5.4.2	199	ST	R	[1..1]		Universal ID	OID.
5.4.3	3	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'.
5	65536	TX	C	[0..1]		Observation Value	Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'. Field using the TX data type to carry a text result value. Numeric results and numeric results with units of measure should not be reported as text. These should be reported as "NM" or "SN" with the units of measure in OBX-6. The TX data type is intended for strings longer than 200 characters.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
5.1	65536	TX	R	[1..1]		Text Data	Text observation in the result message.
5	36	SN	C	[0..1]		Observation Value	<p>Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'.</p> <p>Test result in structured numeric format (i.e., an unambiguous expression of numeric clinical results along with qualifications). Structured numeric include intervals ($^0\text{--}^1$), ratios ($^1\text{}/^2$ or $^1\text{}^\wedge\text{2}$), inequalities ($<^10$), or categorical results (2^+). The units for the structured numeric value should be reported in OBX-6.</p>
5.1	2	ST	RE	[0..1]		Comparator	Component that must be one of '>' or '<' or '>=' or '<=' or '=' or '<>'. If this component is not valued, it defaults to equal ('=').
5.2	15	NM	R	[1..1]		Num1	
5.3	1	ST	RE	[0..1]		Separator/Suffix	Component that must be one of '-' or '+' or '/' or '.' or ':'. .
5.4	15	NM	RE	[0..1]		Num2	
5	16	NM	C	[0..1]		Observation Value	<p>Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'.</p> <p>Test result in numeric format.</p>
5.1	16	NM	R	[1..1]		Numeric Data	Number consisting of an optional leading sign (+ or -), the digits, and an optional decimal point. In the absence of a sign, the number is assumed to be positive. If there is no decimal point, the

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
							number is assumed to be an integer.
5	26	TS	R	[1..1]		Observation Value	Contains the test result as a time stamp. The date portion of the time stamp follows the rules of a date field (DT), and the time portion follows the rules of a time field (TM).
5.1	26	TS	R	[1..1]		Date and Time	Field uses the following format: YYYY[MM[DD[HHMM]]] Example: 200707060000 for July 6, 2007, 12:00 a.m.
5	199	ST	C	[0..*]		Observation Value	Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'. Field using the ST data type to carry a short text result value. Numeric results and numeric results with units of measure should not be reported as text. These should be reported as NM or SN, with the units of measure in OBX-6.
5.1	199	ST	R	[1..1]		String Data	The ST data type is intended for short strings (e.g., less than 200 characters).

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
6	703	CE	C or CE?	[0..1]	PH_UnitsOfMeasure_UCUM (subset of UCUM) or Age Unit Composite value set: values from UCUM NullFlavor_HL7_V3)	Units	Field populated with units of measure if the data type identified in OBX.2 (and carried in OBX.5) is "SN." If we use C, then need to explain to use "1" for any unitless value in OBX.5, for example a titer.
6.1	50	ST	C	[0..1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
6.2	100	ST	O	[0..1]		Text	Standardized description.
6.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
6.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
6.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
6.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
7	60	ST	RE	[0..1]		References Range	Interpretation range that applies to the value reported in OBX-5. It should provide enough information to understand the abnormal flags reported in OBX.8.
8	5	ID	RE	[0..1]	Abnormal Flag (HL7) table# 78	Abnormal Flags	Indicator of the normalcy of the result found in OBX.5.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
11	1	ID	R	[1..1]	Observation Result Status (HL7) table# 85	Observation Result Status	<p>Status of the observation result.</p> <p>Corrected Results: A corrected result occurs when a previously final result report (i.e., an OBR and associated OBXs where OBR-25 was "Final" and all OBX-11s were Final) is being resent with a change to a value in one or more OBXs.</p> <p>OBR-25 (Result Status): The status of the entire report is marked as "C-Corrected" in OBR-25.</p> <p>OBX-11 (Observation Result Status): The status of each OBX is marked as either "Final" or "Corrected." Those OBX values being corrected should have an OBX-11 status of "C-Corrected." Those OBX values that remain unchanged should have an OBX-11 status of "F-Final." A minimum of one OBX must be marked as corrected.</p> <p>OBX-11 = "N" - Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.</p> <p>OBX-11 = 'X' - Results cannot be obtained for this observation</p>

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
14	26	TS	RE	[0..1]		Date/Time of the Observation	For PHLIP, this field will be used to record the observation time. <i>Note: This is a deviation from the HL7 Version 2.3.1 standard, which is the Specimen Collection Date/Time. In HL7 Version 2.5, the specimen information has been expanded. OBX-14 is Specimen Collection Date/Time; OBX-19 is Date/Time of the Analysis.</i>
17	354	CE	RE	[0..1]		Observation Method	Identifier of the method used to find the result. <i>Note: For PHLIP, the 1st 3 components are not supported. The local information will be entered in the Alternate Text component OBX-17.5.</i>
17.1	50	ST	C	[0..1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
17.2	100	ST	O	[0..1]		Text	Standardized description.
17.3	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.

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TABLE 5-9. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
17.4	50	ST	C	[0..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
17.5	100	ST	C	[0..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
17.6	199	ID	C	[0..1]	Coding system (HL7) table# 0396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.

I.9 NOTES AND COMMENTS (NTE) SEGMENT LEVEL PROFILE

The NTE Segment in the test result message can be used to carry comments for the NK I, OBR, and OBX segments. The NTE segment applies to the entity that immediately precedes it (e.g., order-related comments if it follows the OBR segment, observation-related comments if it follows the OBX segment).

TABLE 5-10. NOTES AND COMMENTS SEGMENT (NTE) PROFILE – ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	O	[0..1]		Set ID - NTE	
2	8	ID	O	[0..1]	Source of Comment (HL7) table# 105	Source of Comment	HL7 defined values from Table 0105 of the standard ("L" = Filler, "P" = Placer, "O" = Other)
3	65536	FT	R	[1..*]		Comment	This field uses an FT rather than a TX data type. Since there is no difference between an FT data type without any embedded formatting commands, and a TX data type, this change is compatible with previous versions.

2 HL7 V2.5.1 MESSAGE ORU^R01 SYNTAX

TABLE 5-11. MESSAGE PROFILE ATTRIBUTES

Abbreviation	Definition
Segment	<ul style="list-style-type: none"> • Three-character code for the segment and the abstract syntax (e.g., the square and curly braces). Note that for segment groups there is no segment code present, but the square and curly braces will still be present. • [XXX] Optional • { XXX } Repeating • XXX Required • [{ XXX }] Optional and Repeating
Name	Name of the segment or segment group element.
Usage	<p>Use of the segment for PHLIP. Indicates if the segment is required, optional, or conditional in a message. Legal values are:</p> <ul style="list-style-type: none"> • R – Required. Must always be populated. • O – Optional. • C – Conditional. Must be populated based on computable Conditionality Statement. • X – Not used.
Cardinality	<p>Minimum and maximum number of times the segment may appear.</p> <ul style="list-style-type: none"> • [0..0] Segment never present. • [0..1] Segment may be omitted and can have, at most, one occurrence. • [1..1] Segment must have exactly one occurrence. • [0..n] Segment may be omitted or may repeat up to <i>n</i> times. • [1..n] Segment must appear at least once, and may repeat up to <i>n</i> times. • [0..*] Segment may be omitted or repeat an unlimited number of times. • [1..*] Segment must appear at least once, and may repeat unlimited number of times. • [m..n] Segment must appear at least <i>m</i> and at most <i>n</i> times.
Description	Explanation of the use of the segment.

2.1 HL7 V2.5.1 MESSAGE ORU^R01 SYNTAX

The 2.5.1 version ORU^R01 abstract message has been constrained for PHLIP Influenza Test Result Reporting as follows:

TABLE 5-12. HL7 V2.5.1 MESSAGE ORU^R01 SYNTAX

Segment	Name	Usage	Cardinality	Description
	HEADER Begin	R	[1..1]	
MSH	Message Header	R	[1..1]	The Message Header (MSH) Segment contains information explaining how to parse and process the message. This includes identification of message delimiters, sender, receiver, message type, timestamp, etc.

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Public reporting burden of this collection of information is estimated to average 5 minutes per response. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-24, Atlanta, Georgia 30333; ATTN: PRA (0920-0004).

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TABLE 5-12. HL7 2.5.1 MESSAGE ORU^R01 SYNTAX

Segment	Name	Usage	Cardinality	Description
SFT	Software	O	[1..1]	The Software segment provides additional information about the software product(s) used as a sending application.
	<i>HEADER End</i>			
	<i>SPECIMEN GROUP Begin</i>	R		The Patient Group is required for PHLIP. This is a deviation from the HL7 Version 2.5.1 standard.
SPM	Specimen Identification	R	[1..1]	The Specimen (SPM) segment describes the characteristics of a specimen collected for use in a laboratory test.
NTE	Notes and Comments	O	[0..*]	The Notes and Comments (NTE) segment for the SPM Segment can be used to carry any specimen related comments.
	<i>SPECIMEN GROUP End</i>			
	<i>PATIENT GROUP Begin</i>	R	[1..1]	The Patient Group is required for PHLIP. This is a deviation from the HL7 Version 2.5.1 standard.
PID	Patient Identification	R	[1..1]	The Patient Identification (PID) segment contains patient identifying and demographic information. The PID is required for PHLIP.
PV1	Patient Visit	O	[0..1]	The Patient Visit Segment (PV1) segment is to communicate information on an account or visit-specific basis.
NTE	Notes and Comments	O	[0..*]	The Notes and Comments (NTE) segment for the PV1 Segment can be used to carry any patient visit related comments.
	<i>PATIENT GROUP End</i>			
{	<i>ORDER OBSERVATIO N Begin</i>	R	[1..*]	The Order Observation group is required and may repeat. This means that multiple test results may be reported on a single specimen.

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TABLE 5-12. HL7 2.5.1 MESSAGE ORU^R01 SYNTAX

Segment	Name	Usage	Cardinality	Description
<u>ORC</u>	<u>Common Order</u>	<u>O</u>	<u>[0..1]</u>	<u>The Common Order (ORC) segment identifies basic information about the order for testing of the specimen. This segment includes identifiers for the order, who placed the order when it was placed, etc.</u>
<u>OBR</u>	<u>Observation Request</u>	<u>R</u>	<u>[1..1]</u>	<u>The Observation Request (OBR) segment is used to capture information about a single test being performed on the specimen, or to report information about patient and specimen.</u>
<u>NTE</u>	<u>Notes and Comments</u>	<u>O</u>	<u>[0..*]</u>	<u>The Notes and Comments (NTE) segment for the OBR Segment can be used to carry any order-related comments.</u>
{	<u>OBSERVATION Begin</u>	<u>R</u>	<u>[1..*]</u>	<u>For PHLIP, the Observation group is required in the ORU^R01 message. This is a deviation from the HL7 Version 2.5.1 standard.</u>
<u>OBX</u>	<u>Observation/Result</u>	<u>R</u>	<u>[1..1]</u>	<u>The Observation/Result (OBX) segment following the OBR is used for observations regarding the test ordered. For instance, this may be used to capture test results, the specimen identifying information, and epidemiologically important information regarding the case diagnosis, such as patient vaccination history, travel history, treatment history, etc. For PHLIP, the OBX is required in the ORU^R01 message. This is a deviation from the HL7 Version 2.5.1 standard.</u>
<u>INTE</u>	<u>Notes and Comments</u>	<u>O</u>	<u>[0..*]</u>	<u>The Notes and Comments (NTE) segment for the OBX segment can be used to carry any observation-related comments.</u>
}	<u>OBSERVATION End</u>			
}	<u>ORDER OBSERVATION End</u>			

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2.2 SEGMENT PROFILE ATTRIBUTES

Fields or components that are NOT documented in this guide are considered NOT SUPPORTED. Inclusion of any field or component

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Public reporting burden of this collection of information is estimated to average 5 minutes per response. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-24, Atlanta, Georgia 30333; ATTN: PRA (0920-0004).

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that is not supported will result in the creation of an error message.
The abbreviated terms and their definitions used in the ORU^R01
segment profile are detailed in the following table.

TABLE 5-13. SEGMENT PROFILE ATTRIBUTES

Abbreviation	Definition
Seg	<u>Sequence of the elements as they are numbered in the HL7 segment.</u>
Len	<p><u>PHIN maximum length of the element. Length of an element is calculated using the following rules:</u> <u>Field length = (Sum of all supported component lengths) + (component number of the last supported component) – 1.</u> <u>Component length = (Sum of all supported sub-component lengths) + (sub-component number of the last supported component) – 1.</u> <u>Lengths should be considered recommendations, not absolutes. The receiver can truncate fields, components and sub-components that are longer than the recommended length. The receiver should continue to process a message even when a field, component, or sub-component length exceeds the maximum recommended length identified in this specification.</u></p>
DT	<u>Data type used by PHIN for HL7 element.</u>
Usage	<p><u>Indicator whether a data element is required, optional, or conditional in a message. Legal values are:</u></p> <ul style="list-style-type: none"> • <u>R Required. Must always be populated. May use "" (two sets of quote marks) for a null value if no specific value is delineated in the Description column of the table.</u> • <u>RE¹ Required, but may be empty (no values, no quotes)</u> • <u>O Optional.</u> • <u>C Conditional, must be populated, when condition is met, must be empty if condition is not met.</u> • <u>CE Conditional, must be populated, but may be empty when condition is met, must be empty if condition is not met.</u> • <u>X Not used.</u> <p><u>Note: A required field in an optional segment does not mean the segment must be present in the message. It means that if the segment is present, the required fields within that segment must be populated. The same applies to required components of optional fields. If the field is being populated, then the required components must be populated. The same applies to required sub-components of optional components. If a component is being populated, then the required sub-components of that component must be populated.</u></p>

¹The element may be missing from the message, but must be sent by sending application if there is relevant data. A conforming sending application must be capable of providing all 'RE' elements. If conforming sending application knows required values for the element, it must send that element. If conforming sending application does not know the required values, then that element will be omitted. Receiving applications will be expected to process (save/print/archive, etc.) or ignore data contained in the element, but must be able to successfully process the message if the element is omitted (no error message should be generated because the element is missing).
Health Level Seven, Version 2.5, July 2003, Section 2.12.6.2

Public reporting burden of this collection of information is estimated to average 5 minutes per response. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-24, Atlanta, Georgia 30333; ATTN: PRA (0920-0004).

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TABLE 5-13. SEGMENT PROFILE ATTRIBUTES

<u>Abbreviation</u>	<u>Definition</u>
<u>Cardinality</u>	<p>Minimum and maximum number of times the segment may appear.</p> <ul style="list-style-type: none"> • [0..0] Segment never present. • [0..1] Segment may be omitted and can have, at most, one occurrence. • [1..1] Segment must have exactly one occurrence. • [0..n] Segment may be omitted or may repeat up to <i>n</i> times. • [1..n] Segment must appear at least once, and may repeat up to <i>n</i> times. • [0..*] Segment may be omitted or repeat an unlimited number of times. • [1..*] Segment must appear at least once, and may repeat unlimited number of times. • [m..n] Segment must appear at least <i>m</i> and at most <i>n</i> times.
<u>Value Set Name</u>	<p>Pre-coordinated tables used in public health messages, accessible via the Public Health Information Network Vocabulary Access and Distribution Services at http://www.cdc.gov/PhinVSBrowser/StrutsController.do.</p>
<u>HL7 Tb </u>	<p>The HL7 table number as defined in the HL7 V2.5.1 standard.</p>
<u>Element Name</u>	<p>Descriptive name of the data element.</p>
<u>Description</u>	<p>Explanation of the use of the field/component/sub-component.</p>

2.3 MESSAGE HEADER (MSH) SEGMENT LEVEL PROFILE

The MSH Segment is used to define the intent, source, destination, and some specifics of the syntax of the message. This segment includes identification of message delimiters, sender, receiver, message type, timestamp, etc. The message header is required for the test result message.

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TABLE 5-14. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	1	ST	R	[1,1]		Field Separator	The HL7 field separator, shall contain the constant value ' ', ASCII (124).
2	5	ST	R	[1,1]		Encoding Characters	The HL7 encoding characters, shall contain the constant value '^~\&#'
3	227	HD	R	[1,1]		Sending Application	Field that may be used to uniquely identify the sending application for messaging purposes. If populated, it will contain an OID that represents the sending application instance. For this version of PHLIP, the sending application will be the PHIN namespace ID and OID of your LIMS
3.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of LIMS
3.2	199	ST	R			Universal ID	OID of LIMS
3.3	6	ID	R	[1,1]		Universal ID Type	Literal value: 'ISO'
4	227	HD	R	[1,1]		Sending Facility	Unique identifier of the facility that sends the message. The sending facility must be part of the PHIN OID registry. For this version of PHLIP, the sending facility will be the PHIN namespace ID and OID of your Lab
4.1	20	IS	RE	[1,1]		Namespace ID	The PHIN namespace ID of Lab
4.2	199	ST	R			Universal ID	OID of Lab
4.3	6	ID	R	[1,1]		Universal ID Type	Literal value: 'ISO'
5	227	HD	R	[1,1]		Receiving Application	Unique identifier of the receiving application for messaging purposes. If populated, it will contain an OID that represents the receiving application instance. For this version of PHLIP, the receiving application will always be the CDC application, as denoted in MSH-5.1 and MSH-5.2.
5.1	20	IS	RE	[1,1]		Namespace ID	Laboratory name. Literal value: "US WHO Collab LabSys"
5.2	199	ST	R	[1,1]		Universal ID	US WHO Collab LabSys OID Literal value: "2.16.840.1.114222.4.3.3.7"

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TABLE 5-14. MESSAGE HEADER (MSH) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
12	973	VID	R	[1..1]		Version ID	The version of HL7 that this PHLIP message spec is based upon
12.1	5	ID	R	[1..1]		Version ID	Literal value: '2.5.1'
12.2	705	CE	O	[1..1]		Internationalization Code	
12.3	705	CE	O	[1..1]		International Version ID	
13	15	NM	O	[0..1]		Sequence Number	
14	180	ST	O	[0..1]		Continuation Pointer	
15	2	ID	C(R/RE)	[0..1]		Accept Acknowledgment Type	The PHLIP program does not send system level acknowledgements (ACKs) therefore the literal value of "NE" should always be used
16	2	ID	C(R/RE)	[0..1]		Application Acknowledgment Type	The PHLIP program does not send application level acknowledgements (ACKs) therefore the literal value of "NE" should always be used
17	3	ID	O	[0..1]		Country Code	
18	15	ID	O	[0..*]		Character Set	
19	483	CWE	O	[0..1]		Principal Language Of Message	
20	13	ID	O	[0..1]		Alternate Character Set Handling Scheme	
21[1]	427	EI	R	[1..*]		Message Profile Identifier	Information about the ELR message profile
21.1[1]	199	ST	R	[1..1]		Entity Identifier	Literal: 'PHLabReport-NoAck'
21.2[1]	20	IS	RE	[1..1]		Namespace ID	-
21.3[1]	199	ST	R	[1..1]		Universal ID	Literal: '2.16.840.1.113883.9.11'
21.4[1]	6	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'
21[2]	427	EI	R	[1..*]		Message Profile Identifier	Information about the PHLIP message profile
21.1[2]	199	ST	R	[1..1]		Entity Identifier	Literal: 'PHLIP_ELSM_251'
21.2[2]	20	IS	RE	[1..1]		Namespace ID	-
21.3[2]	199	ST	R	[1..1]		Universal ID	Literal: '2.16.840.1.113883.9.179'
21.4[2]	6	ID	R	[1..1]		Universal ID Type	Literal value: 'ISO'

2.4 SOFTWARE (SFT) SEGMENT LEVEL PROFILE

The SFT segment is used primarily for diagnostic purposes. The SFT segment is not required in the header group.

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TABLE 5-15. SOFTWARE (SFT) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	567	XON	R	[1,1]		Software Vendor Organization	Name of LIMS or Interface Engine Vendor
1.1	50	ST	C(R/RE)	[1,1]		Organization Name	
1.2	20	IS	RE	[1,1]	HL70204	Organization Name Type Code	Note: Not needed for PHLIP
1.4	4	NM	O	[1,1]		Check Digit	
1.5	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
1.6	227	HD	C(R/X)	[1,1]		Assigning Authority	Note: Not needed for PHLIP
1.6.1	20	IS	RE	[1,1]		Namespace ID	Note: Not needed for PHLIP
1.6.2	199	ST	R			Universal ID	Note: Not needed for PHLIP
1.6.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Note: Not needed for PHLIP
1.7	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	Note: Not needed for PHLIP
1.8	227	HD	O	[1,1]		Assigning Facility	
1.9	1	ID	O	[1,1]	HL70465	Name Representation Code	
1.9.1	20	IS	RE	[1,1]		Namespace ID	
1.9.2	199	ST	R			Universal ID	ELR-063:IF HD.3(Universal ID type) value is "ISO", SHALL be a valid ISO OID format. ELR-062:IF HD.3(Universal ID type) value is "CLIA", SHALL be a valid CLIA identifier format
1.9.3	6	ID	R	[1,1]	HL70301	Universal ID Type	ELR-007:IF element is MSH-4.3 (Universal ID type) , then HD.3 (Universal ID type) SHALL contain the value "ISO" OR "CLIA", ELSE HD.3 (Universal ID type) SHALL contain the value "ISO"
1.10	20	ST	RE	[1,1]		Organization Identifier	Note: Not needed for PHLIP
2	15	ST	R	[1,1]		Software Certified Version or Release Number	Latest software version of LIMS or Interface Engine.
3	20	ST	R	[1,1]		Software Product Name	Name of the LIMS or Interface Engine that submitted the HL7 message

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TABLE 5-16. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
2.2.1	199	ST	R	[1..1]		Entity Identifier	The unique Specimen number
2.2.2	20	IS	RE	[1..1]		Namespace ID	Namespace ID of LIMS
2.2.3	199	ST	R	[1..1]		Universal ID	OID of LIMS
2.2.4	6	ID	R	[1..1]	HL70301	Universal ID Type	Literal value: 'ISO'
3	855	EIP	O	[0..*]		Specimen Parent IDs	
4	705	CWE	R	[1..1]	Specimen Type Value Set	Specimen Type	Specimen type Recommend send both the Standard (SNOMED) and local code.
4.1	20	ST	RE	[1..1]		Identifier	Code for Specimen Type. Use SNOMED code or local code
4.2	199	ST	C(RE/X)	[1..1]		Text	Specimen Type Concept Name If using SNOMED code use fully specified concept name
4.3	12	ID	C(R/X)	[1..1]	HL70396	Name of Coding System	Code System for Specimen Type If SNOMED use 'SCT'. If local use 'L' or '99zzz' (where ZZ is any alphanumeric character - not constrained to 3).
4.4	20	ST	RE	[1..1]		Alternate Identifier	Code for Specimen Type
4.5	199	ST	C(RE/X)	[1..1]		Alternate Text	Specimen Type Concept Name If using SNOMED code use fully specified concept name
4.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	Code System for Specimen Type If SNOMED use 'SCT'. If local use 'L' or '99zzz' (where zzz is any alphanumeric character - not constrained to 3).
4.7	10	ST	RE	[1..1]		Coding System Version ID	Version of code system identified in component 3
4.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	Version of code system identified in component 6
4.9	199	ST	C(R/X)	[1..1]		Original Text	Original text for Specimen type
5	705	CWE	RE	[0..*]	PHVS Modifier Or Qualifier CDC	Specimen Type Modifier	Modifier term for Specimen type
5.1	20	ST	RE	[1..1]		Identifier	SNOMED Code for qualifier
5.2	199	ST	C(RE/X)	[1..1]		Text	SNOMED Concept Name

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TABLE 5-6. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

<u>Seq</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
5.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	Literal: 'SCT' This will be SCT (for SNOMED) - can be hardcoded if always populate first triplet with SNOMED codes. If you put a SNOMED specimen code in SPM4.1, you must put SCT in SPM4.3. If you leave SPM4.1 empty, you should also leave SPM4.3 empty
5.4	20	ST	RE	[1,1]		Alternate Identifier	
5.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
5.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	
5.7	10	ST	RE	[1,1]		Coding System Version ID	SNOMED Version ID
5.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
5.9	199	ST	C(R/X)	[1,1]		Original Text	
6	705	CWE	RE	[0,*]	HL70371	Specimen Additives	Uses HL7 table 371 for additives
6.1	20	ST	RE	[1,1]		Identifier	
6.2	199	ST	C(RE/X)	[1,1]		Text	
6.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	
6.4	20	ST	RE	[1,1]		Alternate Identifier	
6.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
6.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	
6.7	10	ST	RE	[1,1]		Coding System Version ID	Note: Recommended if a coding system is identified in component 3
6.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
6.9	199	ST	C(R/X)	[1,1]		Original Text	
7	705	CWE	RE	[0,1]	Specimen Collection Method Value Set	Specimen Collection Method	Uses HL7 table 488 or SNOMED CT from procedure hierarchy under specimen collection
7.1	20	ST	RE	[1,1]		Identifier	
7.2	199	ST	C(RE/X)	[1,1]		Text	
7.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	

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TABLE 5-16. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
7.4	20	ST	RE	[1..1]		Alternate Identifier	
7.5	199	ST	C(RE/X)	[1..1]		Alternate Text	
7.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	
7.7	10	ST	RE	[1..1]		Coding System Version ID	
7.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	
7.9	199	ST	C(R/X)	[1..1]		Original Text	
8	705	CWE	RE	[0..1]	Body Site Value Set	Specimen Source Site	Specimen Source (body)Site
8.1	20	ST	RE	[1..1]		Identifier	Code for Specimen Type. Use SNOMED code or local code
8.2	199	ST	C(RE/X)	[1..1]		Text	Specimen Type Concept Name If using SNOMED code use fully specified concept name
8.3	12	ID	C(R/X)	[1..1]	HL70396	Name of Coding System	Code System for Specimen Type If SNOMED use 'SCT'. If local use 'L' or '99zzz' (where zzz is any alphanumeric character - not constrained to 3).
8.4	20	ST	RE	[1..1]		Alternate Identifier	Code for Specimen Type. Use SNOMED code or local code
8.5	199	ST	C(RE/X)	[1..1]		Alternate Text	Specimen Type Concept Name If using SNOMED code use fully specified concept name
8.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	Code System for Specimen Type If SNOMED use 'SCT'. If local use 'L' or '99zzz' (where zzz is any alphanumeric character - not constrained to 3).
8.7	10	ST	RE	[1..1]		Coding System Version ID	Version of code system identified in component 3
8.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	Version of code system identified in component 6
8.9	199	ST	C(R/X)	[1..1]		Original Text	Original text
9	705	CWE	RE	[0..*]	PHYS Modifier or Qualifier CDC	Specimen Source Site Modifier	
9.1	20	ST	RE	[1..1]		Identifier	SNOMED Code for qualifier

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TABLE 5-16. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
9.2	199	ST	C(RE/X)	[1,1]		Text	SNOMED Concept Name
9.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	Literal: 'SCT' This will be SCT (for SNOMED) - can be hardcoded if always populate first triplet with SNOMED codes. If you put a SNOMED specimen code in SPM4.1, you must put SCT in SPM4.3. If you leave SPM4.1 empty, you should also leave SPM4.3 empty
9.4	20	ST	RE	[1,1]		Alternate Identifier	
9.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
9.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	
9.7	10	ST	RE	[1,1]		Coding System Version ID	SNOMED Version ID
9.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
9.9	199	ST	C(R/X)	[1,1]		Original Text	
10	705	CWE	O	[0,1]	HL70543	Specimen Collection Site	
11	705	CWE	RE	[0,*]	HL70369	Specimen Role	For PHLIP, this element can be empty
11.1	20	ST	RE	[1,1]		Identifier	
11.2	199	ST	C(RE/X)	[1,1]		Text	
11.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	
11.4	20	ST	RE	[1,1]		Alternate Identifier	
11.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
11.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	
11.7	10	ST	RE	[1,1]		Coding System Version ID	
11.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
11.9	199	ST	C(R/X)	[1,1]		Original Text	
12	500	CQ	RE	[0,1]	UCUM	Specimen Collection Amount	For PLHIP, this element can be empty
12.1	16	NM	R	[1,1]		Quantity	

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TABLE 5-16. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
12.2	483	CE	RE	[1.1]		Units	
12.1	20	ST	RE	[1.1]		Identifier	
12.2	199	ST	C(RE/X)	[1.1]		Text	
12.3	12	ID	C(R/X)	[1.1]	HL70396	Name of Coding System	
12.4	20	ST	RE	[1.1]		Alternate Identifier	
12.5	199	ST	C(RE/X)	[1.1]		Alternate Text	
12.6	12	ID	C(R/X)	[1.1]	HL70396	Name of Alternate Coding System	
12.7	10	ST	RE	[1.1]		Coding System Version ID	
12.8	10	ST	RE	[1.1]		Alternate Coding System Version ID	
12.9	199	ST	C(R/X)	[1.1]		Original Text	
13	6	NM	O	[0.1]		Grouped Specimen Count	
14	250	ST	O	[0.*]		Specimen Description	
15	705	CWE	O	[0.*]	HL70376	Specimen Handling Code	
16	705	CWE	O	[0.*]	HL70489	Specimen Risk Code	
17	53	DR	R	[1.1]		Specimen Collection Date/Time	Specimen Collection Date/Time Range
17.1	26	TS	RE	[1.1]		Range Start Date/Time	Specimen Collection Date/Time
17.1.1	24	DTM	R	[1.1]		Time	Specimen Collection Date/Time
17.2	26	TS	RE	[1.1]		Range End Date/Time	
17.2.1	24	DTM	R	[1.1]		Time	
18	26	TS	R	[1.1]		Specimen Received Date/Time	Specimen Received Date/Time
18.1	24	DTM	R	[1.1]		Time	Specimen Received Date/Time Format: YYYYMMDD[HH[MM[SS[S[S[S[S]]]]]]][+/-ZZZZ]
19	26	TS	O	[0.1]		Specimen Expiration Date/Time	
20	1	ID	O	[0.1]	HL70136	Specimen Availability	

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TABLE 5-16. SPECIMEN (SPM) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
21	705	CWE	RE	[0..*]	HL70490	Specimen Reject Reason	Note: Not Needed for PHLIP
21.1	20	ST	RE	[1..1]		Identifier	
21.2	199	ST	C(RE/X)	[1..1]		Text	
21.3	12	ID	C(R/X)	[1..1]	HL70396	Name of Coding System	
21.4	20	ST	RE	[1..1]		Alternate Identifier	
21.5	199	ST	C(RE/X)	[1..1]		Alternate Text	
21.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	
21.7	10	ST	RE	[1..1]		Coding System Version ID	
21.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	
21.9	199	ST	C(R/X)	[1..1]		Original Text	
22	705	CWE	O	[0..1]	HL70491	Specimen Quality	
23	705	CWE	O	[0..1]	HL70492	Specimen Appropriateness	
24	705	CWE	O	[0..*]	HL70493	Specimen Condition	
25	500	CQ	O	[0..1]	UCUM	Specimen Current Quantity	
26	4	NM	O	[0..1]		Number of Specimen Containers	
27	705	CWE	O	[0..1]		Container Type	
28	705	CWE	O	[0..1]	HL70544	Container Condition	
29	705	CWE	O	[0..1]	HL70494	Specimen Child Role	

2.6 NOTES AND COMMENTS (NTE) SEGMENT LEVEL PROFILE

The NTE Segment in the test result message can be used to carry comments for the SPM, PVI, OBR, and OBX segments. The NTE segment applies to the entity that immediately precedes it (e.g., order-related comments if it follows the OBR segment, observation-related comments if it follows the OBX segment).

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TABLE 5-17. NOTES AND COMMENTS (NTE) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1,1]		Set ID - NTE	
2	1	ID	RE	[0,1]	HL70105	Source of Comment	HL7 defined values from Table 0105 of where the comment originated ("L" = Filler, "P" = Placer, "O" = Other).
3	65536	FT	R	[1,*]		Comment	The comment Note: This field uses an FT rather than a TX data type. Since there is no difference between an FT data type without any embedded formatting commands, and a TX data type, this change is compatible with previous versions.
4	483	CWE	RE	[0,1]	HL70364	Comment Type	
4.1	20	ST	RE	[1,1]		Identifier	Code for Source of Comment
4.2	199	ST	C(RE/X)	[1,1]		Text	Source of Comment Concept Name
4.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	Code System for Source of Comment
4.4	20	ST	RE	[1,1]		Alternate Identifier	Code for Source of Comment
4.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Source of Comment Concept Name
4.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Code System for Source of Comment
4.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
4.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
4.9	199	ST	C(R/X)	[1,1]		Original Text	Original text

2.7 PATIENT IDENTIFICATION (PID) SEGMENT LEVEL PROFILE

The PID Segment is used as the primary means of communicating patient identification information. This segment contains pertinent patient identifying and demographic information. The PID Segment is required in the patient group. For PHLIP, the patient group is required. If the message sender has detailed patient information, and that information is needed/required by the message receiver, this patient group will be used. For the PHLIP influenza test result message, only one PID Segment is expected per message. If the message sender does not have sufficient information to construct a legal PID Segment, such as a patient name and patient ID, the message sender should send the default data as noted in the Description column, below.

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TABLE 5-18. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1,1]		Set ID - PID	Literal value: "1"
3	1913	CX	R	[1,*]		Patient Identifier List	This field contains the list of identifiers (one or more) used to uniquely identify a patient (e.g., medical record number, billing number, birth registry, national unique individual identifier, etc.)
3.1	15	ST	R	[1,1]		ID Number	The unique Patient ID number. Do NOT send social security numbers at all. Note: If no Patient ID is available, the Specimen ID should be defaulted into this field. For PHLIP, the Specimen ID will be an observation sent in OBX-5 (Observation Value) with a data type of "CX." In the case where the Specimen ID is used in place of the Patient ID, it should also be a separate OBX.
3.2	4	ST	O	[1,1]		Check Digit	
3.3	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
3.4	227	HD	R	[1,1]		Assigning Authority	Entity that assigned the patient identifier.
3.4.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of LIMS
3.4.2	199	ST	R			Universal ID	OID of your LIMS(assuming LIMS assigned the ID above)
3.4.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'.
3.5	5	ID	R	[1,1]	HL70203	Identifier Type Code	Patient Identifier type
3.6	227	HD	RE	[1,1]		Assigning Facility	Facility that assigned the patient identifier.
3.6.1	20	IS	RE	[1,1]		Namespace ID	
3.6.2	199	ST	R			Universal ID	OID of your LIMS(assuming LIMS assigned the ID above)

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TABLE 5-18. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
10.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
10.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
10.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
10.9	199	ST	C(R/X)	[1,1]		Original Text	Original text
11	578	XAD	RE	[0,*]		Patient Address	Residence address of the patient. If multiple patient addresses are sent, the 1st repeat should contain the patient's primary address. Note: If the state is not sent in the message, the receiver should default the sending system's state in PID-11.4.
11.1	184	SAD	RE	[1,1]		Street Address	
11.1.1	120	ST	R	[1,1]		Street or Mailing Address	
11.1.2	50	ST	O	[0,1]		Street Name	
11.1.3	12	ST	O	[0,1]		Dwelling Number	
11.2	120	ST	RE	[1,1]		Other Designation	
11.3	50	ST	RE	[1,1]		City	
11.4	50	ST	RE	[1,1]	State Value Set	State or Province	Reference the FIPS 5-2 alpha codes here, though this is not a coded field, so no coding system will be identified.
11.5	12	ST	RE	[1,1]	Postal Code Value Set	Zip or Postal Code	US Zip Codes, Zip+4 and Canadian Postal Codes will be supported.
11.6	3	ID	RE	[1,1]	HL70399	Country	
11.7	3	ID	RE	[1,1]	HL70190	Address Type	
11.8	50	ST	O	[1,1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf

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TABLE 5-18. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
11.9	20	IS	RE	[1,1]	PHVS County FIPS 6-4	County/Parish Code	Map to FIPS 6-4 code
11.10	20	IS	O	[1,1]		Census Tract	
11.11	1	ID	O	[1,1]		Address Representation Code	
11.13	24	TS	O	[1,1]		Effective Date	
11.14	24	TS	O	[1,1]		Expiration Date	
13	651	XTN	RE	[0,*]		Phone Number - Home	DO NOT send patient telephone information
14	651	XTN	RE	[0,*]		Phone Number - Business	DO NOT send patient telephone information
15	483	CWE	O	[0,*]	PHVS Language ISO 639-2 Alpha3	Primary Language	
16	483	CWE	O	[0,1]	HL702	Marital Status	
17	483	CWE	O	[0,1]	HL706	Religion	
18	1913	CX	O	[0,1]		Patient Account Number	
21	1913	CX	O	[0,*]		Mother's Identifier	
22	483	CWE	RE	[0,*]	HL70189	Ethnic Group	Patient's ethnicity defined as Hispanic, Non-Hispanic, or Unknown
22.1	20	ST	RE	[1,1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
22.2	199	ST	C(RE/X)	[1,1]		Text	Standardized description.
22.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
22.4	20	ST	RE	[1,1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.

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TABLE 5-18. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
22.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is Coded. Rule of conditionality: Required if no standardized code or local code value passed.
22.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
22.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
22.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
22.9	199	ST	C(R/X)	[1,1]		Original Text	Original text
23	250	ST	O	[0,1]		Birth Place	
24	1	ID	O	[0,1]	HL70136	Multiple Birth Indicator	
25	2	NM	O	[0,1]		Birth Order	
26	483	CWE	O	[0,*]	HL70171	Citizenship	
27	483	CWE	O	[0,1]	HL70172	Veterans Military Status	
29	26	TS	RE	[0,1]		Patient Death Date and Time	Date and time of patient's death, if the patient is known to be deceased at the time of the message.
29.1	24	DTM	R	[1,1]		Time	
30	1	ID	RE	[0,1]	HL70136	Patient Death Indicator	Indicator (Y) of patient's death, if the patient is known to be deceased at the time of the message. If unknown, this field should be empty (no value, no quotes).
31	1	ID	O	[0,1]	HL70136	Identity Unknown Indicator	
32	20	IS	O	[0,*]	HL70445	Identity Reliability Code	
33	26	TS	RE	[0,1]		Last Update Date/Time	When updating demographic information update this field to flag receiver of new information.
33.1	24	DTM	R	[1,1]		Time	
34	241	HD	C(R/X)	[0,1]		Last Update Facility	The PHIN namespace ID and OID of your Lab

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TABLE 5-18. PATIENT IDENTIFICATION (PID) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
34.1	20	IS	RE	[1,1]		Namespace ID	
34.2	199	ST	R			Universal ID	
34.3	6	ID	R	[1,1]	HL70301	Universal ID Type	
35	483	CWE	RE	[0,1]	PHVS Animal CDC	Species Code	Note: For PHLIP, this element can be empty
35.1	20	ST	RE	[1,1]		Identifier	
35.2	199	ST	C(RE/X)	[1,1]		Text	
35.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	
35.4	20	ST	RE	[1,1]		Alternate Identifier	
35.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
35.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	
35.7	10	ST	RE	[1,1]		Coding System Version ID	
35.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
35.9	199	ST	C(R/X)	[1,1]		Original Text	
36	483	CWE	O	[0,1]		Breed Code	
37	80	ST	O	[0,1]		Strain	
38	483	CWE	O	[0,2]	HL70429	Production Class Code	
39	705	CWE	O	[0,*]	Tribal Citizenship Value Set	Tribal Citizenship	

2.8 PATIENT VISIT (PVI) SEGMENT LEVEL PROFILE

The PVI Segment contains information on patient visits at the visit- or account-level.

TABLE 5-19. PATIENT VISIT (PVI) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1,1]		Set ID - PV1	SHALL contain the constant value '1'
1	4	SI	R	[1,1]		Set ID - PV1	SHALL contain the constant value '1'

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TABLE 5-19. PATIENT VISIT (PVI) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
2	20	IS	R	[1,1]	HL70004	Patient Class	Kind of patient, should be indicated in EPI question LAB330 instead of in PV1 segment
3	1230	PL	O	[0,1]		Assigned Patient Location	The patients initial assigned location or location where the patient is being moved at point of care
4	20	IS	RE	[0,1]	HL70007	Admission Type	
5	1913	CX	O	[0,1]		Preadmit Number	
6	1230	PL	O	[0,1]		Prior Patient Location	
7	2945	XCN	O	[0,*]		Attending Doctor	
8	2945	XCN	O	[0,*]		Referring Doctor	
9	2945	XCN	O	[0,*]		Consulting Doctor	
10	20	IS	O	[0,1]		Hospital Service	
11	1230	PL	O	[0,1]		Temporary Location	
12	20	IS	O	[0,1]	HL7087	Preadmit Test Indicator	
14	20	IS	O	[0,1]	HL7023	Admit Source	
17	2945	XCN	O	[0,*]		Admitting Doctor	
18	20	IS	O	[0,1]	HL7018	Patient Type	
19	1913	CX	O	[0,1]		Visit Number	
20	50	FC	O	[0,*]		Financial Class	
30	8	DT	O	[0,1]		Transfer to Bad Debt Date	
31	20	IS	O	[0,1]	HL7021	Bad Debt Agency Code	
32	12	NM	O	[0,1]		Bad Debt Transfer Amount	
33	12	NM	O	[0,1]		Bad Debt Recovery Amount	
34	20	IS	O	[0,1]	HL70111	Delete Account Indicator	
35	8	DT	O	[0,1]		Delete Account Date	
36	20	IS	O	[0,1]	HL70112	Discharge Disposition	
37	47	DLD	O	[0,1]		Discharged to Location	
38	483	CWE	O	[0,1]	HL70114	Diet Type	
39	20	IS	O	[0,1]	HL70115	Servicing Facility	
41	20	IS	O	[0,1]	HL70117	Account Status	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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TABLE 5-19. PATIENT VISIT (PVI) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
42	1230	PL	O	[0,1]		Pending Location	
43	1230	PL	O	[0,1]		Prior Temporary Location	
44	26	TS	RE	[0,1]		Admit Date/Time	Admit Date/Time SHALL follow the format YYYY[MM][DD][HH][MM][SS].[S][S][S][S][M][M][M][M][+/-ZZZZ]
44.1	24	DTM	R	[1,1]		Time	
45	26	TS	RE	[1,1]		Discharge Date/Time	Discharge Date/Time SHALL follow the format YYYY[MM][DD][HH][MM][SS].[S][S][S][S][M][M][M][M][+/-ZZZZ]
45.1	24	DTM	R	[1,1]		Time	
46	12	NM	O	[0,1]		Current Patient Balance	
47	12	NM	O	[0,1]		Total Charges	
48	12	NM	O	[0,1]		Total Adjustments	
49	12	NM	O	[0,1]		Total Payments	
50	1913	CX	O	[0,1]		Alternate Visit ID	
51	20	IS	O	[0,1]	HL70326	Visit Indicator	
52	2945	XCN	O	[0,*]		Other Healthcare Provider	

2.9 COMMON ORDER (ORC) SEGMENT LEVEL PROFILE

The ORC Segment is used to transmit test order information. This segment includes identifiers for the order, who placed the order, when it was placed, etc. The ORC Segment is optional in the Test Result (ORU) message. Any information that could be included in either the ORC or the OBR must be included in the OBR on reporting.

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	2	ID	R	[1,1]	HL70119	Order Control	HL7 Order Control Codes indicate the order action to be performed, i.e., the circumstances of the order that is contained in this message. For PHLIP messages the Order Control Code is RE (Observations/Performed Service to follow).

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
2	427	EI	C(R/X)	[0,1]		Placer Order Number	Unique identifying number assigned to the test request or order by the system that initiated the request for performance of the test. Note: The same value is populated in ORC.2 and OBR.2.
2.1	199	ST	R	[1,1]		Entity Identifier	
2.2	20	IS	RE	[1,1]		Namespace ID	Assigning authority
2.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/ organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
2.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
3	427	EI	R	[1,1]		Filler Order Number	Order number associated with the filling application. Note: The same value is populated in ORC.3 and OBR.3.
3.1	199	ST	R	[1,1]		Entity Identifier	
3.2	20	IS	RE	[1,1]		Namespace ID	Namespace ID of the application/organization responsible for creating the filler order number
3.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
3.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
4	427	EI	RE	[0,1]		Placer Group Number	Note: Not needed for PLHIP
5	2	ID	O	[0,1]	HL7038	Order Status	Status of an order
6	1	ID	O	[0,1]	HL70121	Response Flag	
8	855	EIP	O	[0,1]		Parent	
9	26	TS	O	[0,1]		Date/Time of Transaction	
10	2945	XCN	O	[0,*]		Entered By	
11	2945	XCN	O	[0,*]		Verified By	
12	2945	XCN	C(R/X)	[0,*]		Ordering Provider	Physician or other provider who ordered the test
12.1	15	ST	RE	[1,1]		ID Number	Provider ID
12.2	194	FN	RE	[1,1]		Family Name	Ordering provider's last name
12.2.1	50	ST	R	[1,1]		Surname	

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
12.2.2	20	ST	O	[1,1]		Own Surname Prefix	
12.2.3	50	ST	O	[1,1]		Own Surname	
12.2.4	20	ST	O	[1,1]		Surname Prefix From Partner/Spouse	
12.2.5	50	ST	O	[1,1]		Surname From Partner/Spouse	
12.3	30	ST	RE	[1,1]		Given Name	Ordering provider's last name
12.4	30	ST	RE	[1,1]		Second and Further Given Names or Initials Thereof	Ordering provider's middle Initial or middle name
12.5	20	ST	RE	[1,1]		Suffix (e.g., JR or III)	Ordering provider's name suffix
12.6	20	ST	RE	[1,1]		Prefix (e.g., DR)	Ordering provider's name prefix
12.7	20	IS	O	[1,1]	HL70360	Degree (e.g., MD)	
12.8	20	IS	O	[1,1]	HL70297	Source Table	
12.9	227	HD	C(R/X)	[1,1]		Assigning Authority	The assigning authority for the ordering provider's ID
12.9.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of entity (e.g. NPI, your LIMS, etc) that assigned the identifier above
12.9.2	199	ST	R			Universal ID	OID of entity (e.g. NPI, your LIMS, etc) that assignee the identifier above
12.9.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
12.10	5	ID	RE	[1,1]	HL70200	Name Type Code	
12.11	4	ST	O	[1,1]		Identifier Check Digit	
12.12	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
12.13	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	
12.14	227	HD	RE	[1,1]		Assigning Facility	The Assigning Facility identifies the place or location that the ID Number was assigned for use. (Not needed in most states)
12.14.1	20	IS	RE	[1,1]		Namespace ID	
12.14.2	199	ST	R			Universal ID	
12.14.3	6	ID	R	[1,1]	HL70301	Universal ID Type	

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
12.15	1	ID	O	[1,1]	HL70465	Name Representation Code	
12.16	483	CE	O	[1,1]	HL70448	Name Context	
12.18	1	ID	O	[1,1]	HL70444	Name Assembly Order	
12.19	8	TS	O	[1,1]		Effective Date	
12.20	8	TS	O	[1,1]		Expiration Date	
12.21	199	ST	RE	[1,1]	HL70360	Professional Suffix	Ordering provider's name suffix
12.22	705	CWE	O	[1,1]		Assigning Jurisdiction	
12.23	705	CWE	O	[1,1]		Assigning Agency or Department	
13	1230	PL	O	[0,1]		Enterer's Location	
14	651	XTN	C(R/X)	[0,2]		Call Back Phone Number	Submitter's contact info Notes: Not needed for PHLIP
15	26	TS	O	[0,1]		Order Effective Date/Time	
16	483	CWE	O	[0,1]		Order Control Code Reason	
17	483	CWE	O	[0,1]		Entering Organization	
18	483	CWE	O	[0,1]		Entering Device	
19	2945	XCN	O	[0,*]		Action By	
21	563	XON	R	[1,1]		Ordering Facility Name	Name and ID of the facility that placed the order
21.1	50	ST	C(R/RE)	[1,1]		Organization Name	Name of the organization
21.2	20	IS	RE	[1,1]	HL70204	Organization Name Type Code	Name type code of the organization
21.4	4	NM	O	[1,1]		Check Digit	
21.5	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
21.6	227	HD	C(R/X)	[1,1]		Assigning Authority	The Assigning Authority component is used to identify the system, application, organization, etc. that assigned the ID in component 10.
21.6.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of entity (e.g. NPI, submitting public health lab LIMS, etc) that assigned the facility identified below
21.6.2	199	ST	R			Universal ID	OID of entity (e.g. NPI, submitting public health lab LIMS, etc) that assigned the identifier below

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
21.6.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
21.7	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	
21.8	227	HD	O	[1,1]		Assigning Facility	
21.9	1	ID	O	[1,1]	HL70465	Name Representation Code	
21.10	20	ST	RE	[1,1]		Organization Identifier	Ordering facility ID
22	578	XAD	R	[1,1]		Ordering Facility Address	Address of the facility that placed the order. If multiple addresses are sent, the 1st repeat should contain the ordering facility's primary address. Note: If the state is not sent in the message, the receiver should default the sending system's state in ORC-22.4.
22.1	184	SAD	RE	[1,1]		Street Address	Street Address
22.1.1	120	ST	R	[1,1]		Street or Mailing Address	
22.1.2	50	ST	O	[0,1]		Street Name	
22.1.3	12	ST	O	[0,1]		Dwelling Number	
22.2	120	ST	RE	[1,1]		Other Designation	Other Designation Note: This isn't needed for most addresses. It could be a district name, building name, floor number, etc
22.3	50	ST	RE	[1,1]		City	City
22.4	50	ST	RE	[1,1]	State Value Set	State or Province	State or Province Note: FIPS 5-2 alpha codes are supported
22.5	12	ST	RE	[1,1]	Postal Code Value Set	Zip or Postal Code	Zip or Postal Code Note: US Zip Codes, Zip+4 and Canadian Postal Codes are supported.
22.6	3	ID	RE	[1,1]	Country Value Set	Country	Country
22.7	3	ID	RE	[1,1]	HL70190	Address Type	Address Type code from HL7 Table 190
22.8	50	ST	O	[1,1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf
22.9	20	IS	RE	[1,1]	PHVS County FIPS 6-4	County/Parish Code	County code from FIPS6 4 Note: This element can be empty in PHLIP
22.10	20	IS	O	[1,1]		Census Tract	

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
22.11	1	ID	O	[1,1]		Address Representation Code	
22.13	24	TS	O	[1,1]		Effective Date	
22.14	24	TS	O	[1,1]		Expiration Date	
23	651	XTN	R	[1,*]		Ordering Facility Phone Number	Telephone number of the facility placing the order. The receiver must minimally support the 1st repeat when populating this field. Email address, if sent, is a separate "repeat" with appropriate Telecommunication Use Code and Telecommunication Equipment Type.
23.2	3	ID	RE	[1,1]	HL70201	Telecommunication Use Code	Ordering facility telecom use code from HL7 table 0201
23.3	8	ID	RE	[1,1]	HL70202	Telecommunication Equipment Type	Ordering facility telecom equipment type from HL7 table 0202
23.4	199	ST	C(R/X)	[1,1]		Email Address	Ordering facility email address Example of email address format: x@x.x
23.5	3	NM	C(RE/X)	[1,1]		Country Code	Ordering facility international dialing code
23.6	3	NM	C(RE/X)	[1,1]		Area/City Code	Ordering facility area code
23.7	9	NM	C(R/X)	[1,1]		Local Number	Ordering facility phone number
23.8	5	NM	C(RE/X)	[1,1]		Extension	Extension for phone number
23.9	199	ST	RE	[1,1]		Any Text	Any text
24	578	XAD	RE	[0,*]		Ordering Provider Address	The address of the ordering provider.
24.1	184	SAD	RE	[1,1]		Street Address	Street Address
24.1.1	120	ST	R	[1,1]		Street or Mailing Address	
24.1.2	50	ST	O	[0,1]		Street Name	
24.1.3	12	ST	O	[0,1]		Dwelling Number	
24.2	120	ST	RE	[1,1]		Other Designation	Other Designation Note: This isn't needed for most addresses. It could be a district name, building name, floor number, etc
24.3	50	ST	RE	[1,1]		City	City
24.4	50	ST	RE	[1,1]	State Value Set	State or Province	State or Province Note: FIPS 5-2 alpha codes are supported

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TABLE 5-20. COMMON ORDER (ORC) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
24.5	12	ST	RE	[1,1]	Postal Code Value Set	Zip or Postal Code	Zip or Postal Code Note: US Zip Codes, Zip+4 and Canadian Postal Codes are supported.
24.6	3	ID	RE	[1,1]	Country Value Set	Country	Country
24.7	3	ID	RE	[1,1]	HL70190	Address Type	Address Type code from HL7 Table 190
24.8	50	ST	O	[1,1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf
24.9	20	IS	RE	[1,1]	PHVS County FIPS 6-4	County/Parish Code	County code from FIPS6_4 Note: This element can be empty of PHLIP
24.10	20	IS	O	[1,1]		Census Tract	
24.11	1	ID	O	[1,1]		Address Representation Code	
24.13	24	TS	O	[1,1]		Effective Date	
24.14	24	TS	O	[1,1]		Expiration Date	
25	705	CWE	O	[0,1]		Order Status Modifier	
27	26	TS	O	[0,1]		Filler's Expected Availability Date/Time	
28	705	CWE	O	[0,1]	HL70177	Confidentiality Code	
29	705	CWE	O	[0,1]	HL70482	Order Type	
30	705	CNE	O	[0,1]	HL70483	Enterer Authorization Mode	
31	705	CWE	O	[0,1]	Laboratory Order Value Set	Parent Universal Service Identifier	

2.10 OBSERVATION REQUEST (OBR) SEGMENT LEVEL PROFILE

The OBR Segment in the Test Result Message (ORU) is used to capture information about one test being performed on the specimen or report information about patient and specimen.

Note: For PHLIP, only one specimen is allowed per ORU^R01 message.

Formatted: Left, Outline numbered + Level: 2 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.1" + Indent at: 0.5"

TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1,1]		Set ID - OBR	Sequence number of the OBR in relation to the Result message to which it refers. The sequence number should start at 1 and be incremented by 1 for each OBR in the result message.
2	427	EI	RE	[1,1]		Placer Order Number	Unique identifying number assigned to the test request or order by the system that initiated the request for performance of the test. Note: The same value is populated in ORC.2 and OBR.2.
2.1	199	ST	R	[1,1]		Entity Identifier	Placer order number
2.2	20	IS	RE	[1,1]		Namespace ID	Namespace ID of placer (e.g. EHR)
2.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/ organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
2.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
3	427	EI	R	[1,1]		Filler Order Number	Order number associated with the filling application. Note: The same value is populated in ORC.3 and OBR.3.
3.1	199	ST	R	[1,1]		Entity Identifier	Lab order number Note: This filler number should be a system-generated number from the LIMS.
3.2	20	IS	RE	[1,1]		Namespace ID	Namespace ID of your LIMS
3.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
3.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
4	483	CWE	R	[1,1]	Laboratory Order Value Set	Universal Service Identifier	Identifier code for the test. This will be used to pass PHLIP orderable test codes.
4.1	20	ST	RE	[1,1]		Identifier	Standardized Ordered test code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
4.2	199	ST	C(RE/X)	[1,1]		Text	Standardized Ordered test name
4.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
4.4	20	ST	RE	[1,1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
4.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Local ordered test name. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
4.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Locally defined ordered test code system for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
4.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
4.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
4.9	199	ST	C(R/X)	[1,1]		Original Text	Original text

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
7	26	TS	R	[1,1]		Observation Date/Time	The date and time the specimen was collected. A minimum of year, month and day must be provided when the actual date/time is known. For unknown collection date/time use "0000".
7.1	24	DTM	R	[1,1]		Time	Date and time the specimen was collected Note: This field must contain the same value as the first component of SPM-17 and OBX.14 If you know the date and time, you must include at least the year, month and day. Format use: YYYYMMDD[HH[MM[SS].S[S[S[S]]]]][+/-ZZZ] Example: 20091124. If collection date and time is unknown use "0000".
8	26	TS	C(R/X)	[0,1]		Observation End Date/Time	If specimen was collected over a period of time, include observation end date/time
8.1	24	DTM	R	[1,1]		Time	End point Date and time the specimen was collected
10	2945	XCEN	O	[0,*]		Collector Identifier	This field will identify the person, department or facility that collected the specimen.
11	1	ID	O	[0,1]	HL7065	Specimen Action Code	Specimen action code for identifying
12	483	CWE	O	[0,1]		Danger Code	
13	300	ST	RE	[0,1]		Relevant Clinical Information	
16	2945	XCEN	RE	[0,*]		Ordering Provider	Identifier of the provider who ordered the testing being performed. Note: Either this element is required or ORC.21 and ORC.22 This is the same as ORC.12 If all you have is a single field text name then populate OBR 16.2.1 with this value This element may repeat
16.1	15	ST	RE	[1,1]		ID Number	Provider ID
16.2	194	FN	RE	[1,1]		Family Name	Ordering provider's last name
16.2.1	50	ST	R	[1,1]		Surname	
16.2.2	20	ST	O	[1,1]		Own Surname Prefix	
16.2.3	50	ST	O	[1,1]		Own Surname	
16.2.4	20	ST	O	[1,1]		Surname Prefix From Partner/Spouse	

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
16.2.5	50	ST	O	[1,1]		Surname From Partner/Spouse	
16.3	30	ST	RE	[1,1]		Given Name	Ordering provider's first name
16.4	30	ST	RE	[1,1]		Second and Further Given Names or Initials Thereof	Ordering provider's middle Initial or middle name
16.5	20	ST	RE	[1,1]		Suffix (e.g., JR or III)	Ordering provider's name suffix
16.6	20	ST	RE	[1,1]		Prefix (e.g., DR)	Ordering provider's name prefix
16.7	20	IS	O	[1,1]	HL70360	Degree (e.g., MD)	
16.8	20	IS	O	[1,1]	HL70297	Source Table	
16.9	227	HD	C(R/X)	[1,1]		Assigning Authority	The assigning authority for the ordering provider's ID
16.9.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of entity (e.g. NPI, your LIMS, etc) that assigned the identifier above
16.9.2	199	ST	R			Universal ID	OID of entity (e.g. NPI, your LIMS, etc) that assigned the identifier above
16.9.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
16.10	5	ID	RE	[1,1]	HL70200	Name Type Code	
16.11	4	ST	O	[1,1]		Identifier Check Digit	
16.12	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
16.13	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	
16.14	227	HD	RE	[1,1]		Assigning Facility	The facility that assigned the patient identifier. (Not needed in most states)
16.14.1	20	IS	RE	[1,1]		Namespace ID	
16.14.2	199	ST	R			Universal ID	
16.14.3	6	ID	R	[1,1]	HL70301	Universal ID Type	
16.15	1	ID	O	[1,1]	HL70465	Name Representation Code	
16.16	483	CE	O	[1,1]	HL70448	Name Context	
16.18	1	ID	O	[1,1]	HL70444	Name Assembly Order	
16.19	8	TS	O	[1,1]		Effective Date	
16.20	8	TS	O	[1,1]		Expiration Date	
16.21	199	ST	RE	[1,1]		Professional Suffix	Ordering provider's name suffix
16.22	705	CWE	O	[1,1]		Assigning Jurisdiction	

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

<u>Seg</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
16.23	705	CWE	O	[1,1]		Assigning Agency or Department	
17	651	XTN	RE	[0,2]		Order Callback Phone Number	Submitter's contact info Note: Not needed for PHLIP
18	199	ST	O	[0,1]		Placer Field 1	
19	199	ST	O	[0,1]		Placer Field 2	
20	199	ST	O	[0,1]		Filler Field 1	
21	199	ST	O	[0,1]		Filler Field 2	
22	26	TS	R	[1,1]		Results Rpt/Status Chng - Date/Time	Date/time the results were reported. Note: MUST always generate a new time each time a report is sent (e.g. prelim, final, corrected, resend)
22.1	24	DTM	R	[1,1]		Time	
23	504	MOC	O	[0,1]		Charge to Practice	
24	3	ID	O	[0,1]	HL7074	Diagnostic Serv Sect ID	
25	1	ID	R	[1,1]	HL70123	Result Status	Status of results for this order. Corrected Results: A corrected result occurs when a previously final result report (i.e., an OBR and associated OBXs where OBR-25 was Final and all OBX-11s were Final) is being resent with a change to a value in one or more OBXs. OBR-25 (Result Status): The status of the entire report is marked as "C-Corrected" in OBR-25. OBX-11 (Observation Result Status): The status of each OBX is marked as either "Final" or "Corrected." Those OBX values being corrected should have an OBX-11 status of "C-Corrected." Those OBX values that remain unchanged should have an OBX-11 status of "F-Final." A minimum of one OBX must be marked as corrected.
26	755	PRL	CE	[0,1]		Parent Result	The parent result Field defined to make it available for linkages between the parent result and its children result. This important information, together with the information in OBR.29 Parent, uniquely identifies the OBX Segment of the parent result related to this order.
26.1	483	CWE	R	[1,1]	Laboratory Observation Identifier Value Set	Parent Observation Identifier	The OBX3 of the parent result

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
26.1.1	20	ST	RE	[1,1]		Identifier	Standardized code. Rule of conditionality: The standard code sub-component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
26.1.2	199	ST	C(RE/X)	[1,1]		Text	Standardized description.
26.1.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
26.1.4	20	ST	RE	[1,1]		Alternate Identifier	Local code. Rule of conditionality: The local code sub-component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in sub-component 5.
26.1.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
26.1.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
26.1.7	10	ST	RE	[1,1]		Coding System Version ID	
26.1.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	
26.1.9	199	ST	C(R/X)	[1,1]		Original Text	
26.1.10	20	ST	O	[1,1]		Second Alternate Identifier	
26.1.11	199	ST	O	[1,1]		Second Alternate Text	
26.1.12	12	ID	O	[1,1]	HL70396	Second Name of Alternate Coding System	

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
26.1.13	10	ST	O	[1,1]		Second Alternate Coding System Version ID	
26.1.14	199	ST	O	[1,1]		Coding System OID	
26.2	20	ST	RE	[1,1]		Parent Observation Sub-identifier	OBX4 (Sub-ID) of the Parent Result
26.3	250	TX	RE	[1,1]		Parent Observation Value Descriptor	The description of the organism from OBX-5, which will have a data type of "ST" or "TX."
28	2945	XCN	O	[0,*]		Result Copies To	
29	855	EIP	CE	[0,1]		Parent	Parent ID number. Field that relates a child to its parent when a parent-child relationship exists. Note: OBR-29 is a complex field that contains both the Placer order number (OBR-2) and the Filler order number (OBR-3). OBR-29 is only needed if you need to reference a parent result.
29.1	427	EI	O	[1,1]		Placer Assigned Identifier	From ORC-2 (Placer Order Number) or OBR-2 (Placer Order Number) of parent.
29.1.1	199	ST	R	[1,1]		Entity Identifier	
29.1.2	20	IS	RE	[1,1]		Namespace ID	
29.1.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the placer order number. The placer order number is expected to be unique within this assigning authority.
29.1.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'.
29.2	427	EI	R	[1,1]		Filler Assigned Identifier	From ORC-3 (Filler Order Number) or OBR-3 (Filler Order Number) of parent.
29.2.1	199	ST	R	[1,1]		Entity Identifier	
29.2.2	20	IS	RE	[1,1]		Namespace ID	
29.2.3	199	ST	R	[1,1]		Universal ID	Field required to contain an assigning authority OID for the application/organization responsible for creating the filler order number. The filler order number is expected to be unique within this assigning authority.
29.2.4	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'.

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
31	483	CWE	RE	[0..*]	Reason For Study Value Set	Reason for Study	
31.1	20	ST	RE	[1..1]		Identifier	Code for Reason for Study Note: Use Standard code (ICD-9, ICD-10, SNOMED, PHLIP) or local code here.
31.2	199	ST	C(RE/X)	[1..1]		Text	Reason for Study Concept Name Note: If SNOMED code, Use either SNOMED fully specified concept name or SNOMED Preferred concept name
31.3	12	ID	C(R/X)	[1..1]	HL70396	Name of Coding System	Code System for Reason for Study Note: This will be SCT (for SNOMED), I9CD (ICD9), or "L" or "99zzz" (where zzz is any alphanumeric character - not constrained to 3) for local coding system.
31.4	20	ST	RE	[1..1]		Alternate Identifier	Code for Reason for Study Note: Use Standard code (ICD-9, ICD-10, SNOMED, PHLIP) or local code here.
31.5	199	ST	C(RE/X)	[1..1]		Alternate Text	Reason for Study Concept Name Note: If SNOMED code, Use either SNOMED fully specified concept name or SNOMED Preferred concept name
31.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	Code System for Reason for Study Note: This will be SCT (for SNOMED), I9CD (ICD9), or "L" or "99zzz" (where zzz is any alphanumeric character - not constrained to 3) for local coding system.
31.7	10	ST	RE	[1..1]		Coding System Version ID	Version of code system identified in component 3
31.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	Version of code system identified in component 6
31.9	199	ST	C(R/X)	[1..1]		Original Text	Original text
32	838	NDL	RE	[0..1]		Principal Result Interpreter	
32.1	409	CNN	R	[1..1]		Name	
32.1.1	15	ST	RE	[1..1]		ID Number	
32.1.2	50	ST	RE	[1..1]		Family Name	
32.1.3	30	ST	RE	[1..1]		Given Name	

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TABLE 5-21. OBSERVATION REQUEST (OBR) SEGMENT PROFILE - ORU^R01 USAGE

<u>Seq</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
32.1.4	30	ST	RE	[1,1]		Second and Further Given Names or Initials Thereof	
32.1.5	20	ST	RE	[1,1]		Suffix (e.g., JR or III)	
32.1.6	20	ST	RE	[1,1]		Prefix (e.g., DR)	
32.1.7	5	IS	RE	[1,1]	HL70360	Degree (e.g., MD)	
32.1.9	20	IS	RE	[1,1]		Assigning Authority - Namespace ID	
32.1.10	199	ST	C(R/X)	[1,1]		Assigning Authority - Universal ID	
32.1.11	6	ID	C(R/X)	[1,1]	HL70301	Assigning Authority - Universal ID Type	
33	838	NDL	O	[0,*]		Assistant Result Interpreter	
34	838	NDL	O	[0,*]		Technician	
35	838	NDL	O	[0,*]		Transcriptionist	
36	26	TS	O	[0,1]		Scheduled Date/Time	
39	483	CWE	O	[0,*]		Collector's Comment	
44	483	CWE	O	[0,1]	HL7088	Procedure Code	
45	483	CWE	O	[0,*]	HL70340	Procedure Code Modifier	
46	483	CWE	O	[0,*]	HL70411	Placer Supplemental Service Information	
47	483	CWE	O	[0,*]	HL70411	Filler Supplemental Service Information	
48	705	CWE	O	[0,*]	HL70476	Medically Necessary Duplicate Procedure Reason	
49	2	IS	O	[0,1]	HL70507	Result Handling	
50	705	CWE	O	[0,1]	Laboratory Order Value Set	Parent Universal Service Identifier	

2.1.1 OBSERVATION/RESULT (OBX) SEGMENT LEVEL PROFILE

The OBX Segment in the Test Result (ORU) Message is used to transmit observations related to the test result and other information about patient and specimen, including test result, specimen-related information (such as specimen IDs from both the test order and the test filler), additional information passed by the test order, etc.

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TABLE 5-22. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
1	4	SI	R	[1,1]		Set ID - OBX	Sequence number of the OBX in relation to the OBR Segment to which it refers. The sequence number should start at 1 and increment by 1 for each OBX in the Order Observation group.
2	3	ID	C(R/X)	[0,1]	HL70125	Value Type	The HL7 data type of the result in OBX-5. Field in which allowed values are "CE," "CX," "NM," "SN," "ST," "TS" and "TX." The CE data type is used primarily to convey epidemiologically important information and coded lab results like organism name. The CX data type is used primarily to convey additional specimen identifiers in OBXs. The NM data type is used to report a numeric value. The SN data type is used to report a numeric clinical value with qualifications. The ST data type is used to report a short string of text. The TS data type is used to convey the date/time of illness onset. The TX data type is used to carry a large text observation.
3	483	CWE	R	[1,1]	Laboratory Observation Identifier Value Set	Observation Identifier	Unique identifier for the observation. This field will be populated by either a resulted test identifier (i.e., LOINC or PLT) or an identifier for an observation related to patient or specimen information (EPI question).
3.1	20	ST	RE	[1,1]		Identifier	Standardized code (LOINC or PLR) Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard.
3.2	199	ST	C(RE/X)	[1,1]		Text	Standardized description. Note: If LOINC, use LOINC Short Name or LOINC Long Common Name

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TABLE 5-22. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
3.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
3.4	20	ST	RE	[1,1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
3.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed. Not required but recommended to always send local codes.
3.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
3.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
3.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
3.9	199	ST	C(R/X)	[1,1]		Original Text	Original text
4	20	ST	C(R/X)	[0,1]		Observation Sub-ID	Conditionality Rule: Field required if there is more than one OBX with the same OBX.3 (Observation Identifier) associated with the same OBR. Normally, this field is populated with a number, but text values may also be used.
5	99999	VARI ES	C(RE/X)	[0,1]		Observation Value	Actual observation associated with the test order. The data type in OBX.2 Value Type indicates the format of the observation. Note: Rule of conditionality: This data element is required unless OBX.11 = 'X' or 'N'. This data type transmits a code and the text associated with the code.

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TABLE 5-22. OBSERVATION/RESULT SEGMENT (OBX) PROFILE - ORU^R01 USAGE

<u>Seg</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
Begin OBX-5 Data Types							
<u>CWE</u>							<u>coded results</u>
<u>5.1</u>	<u>20</u>	<u>ST</u>	<u>R</u>			<u>Identifier</u>	<u>coded result</u>
<u>5.2</u>	<u>199</u>	<u>ST</u>	<u>RE</u>			<u>Text</u>	<u>coded result text</u>
<u>5.3</u>	<u>12</u>	<u>ID</u>	<u>R</u>		<u>HL70396</u>	<u>Name of Coding System</u>	<u>code system for coded result in component 1</u>
<u>5.4</u>	<u>20</u>	<u>ST</u>	<u>RE</u>			<u>Alternate Identifier</u>	<u>coded result</u>
<u>5.5</u>	<u>199</u>	<u>ST</u>	<u>RE</u>			<u>Alternate Text</u>	<u>coded result text</u>
<u>5.6</u>	<u>12</u>	<u>ID</u>	<u>C(R/X)</u>		<u>HL70396</u>	<u>Name of Alternate Coding System</u>	<u>code system for coded result in component 1</u>
<u>5.7</u>	<u>10</u>	<u>ST</u>	<u>RE</u>			<u>Coding System Version ID</u>	<u>Version of code system identified in component 3</u>
<u>5.8</u>	<u>10</u>	<u>ST</u>	<u>RE</u>			<u>Alternate Coding System Version ID</u>	<u>Version of code system identified in component 6</u>
<u>5.9</u>	<u>199</u>	<u>ST</u>	<u>RE</u>			<u>Original Text</u>	<u>original text of result</u>
<u>SN</u>							
<u>5.1</u>	<u>2</u>	<u>ST</u>	<u>RE</u>	<u>[1,1]</u>		<u>Comparator</u>	
<u>5.2</u>	<u>65536</u>	<u>NM</u>	<u>RE</u>	<u>[1,1]</u>		<u>Num1</u>	
<u>5.3</u>	<u>1</u>	<u>ST</u>	<u>RE</u>	<u>[1,1]</u>		<u>Separator/Suffix</u>	
<u>5.4</u>	<u>65536</u>	<u>NM</u>	<u>RE</u>	<u>[1,1]</u>		<u>Num2</u>	
<u>ST</u>							
<u>5</u>	<u>99999</u>	<u>ST</u>	<u>C(RE/X)</u>	<u>[0,1]</u>		<u>Observation Value</u>	
<u>TX</u>							
<u>5</u>	<u>99999</u>	<u>ST, TX, or FT</u>	<u>C(RE/X)</u>	<u>[0,1]</u>		<u>Observation Value</u>	
<u>TX</u>							
<u>5.1</u>	<u>24</u>	<u>DTM</u>	<u>C(RE/X)</u>	<u>[0,1]</u>		<u>Date/Time</u>	
<u>NM</u>							
<u>5</u>	<u>99999</u>	<u>NM</u>	<u>C(RE/X)</u>	<u>[0,1]</u>		<u>Observation Value</u>	
<u>CX</u>							
<u>5</u>	<u>1913</u>	<u>CX</u>	<u>R</u>	<u>[1,*]</u>		<u>Identifier</u>	

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Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
5.1	15	ST	R	[1,1]		ID Number	
5.2	4	ST	O	[1,1]		Check Digit	
5.3	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
5.4	227	HD	R	[1,1]		Assigning Authority	
5.4.1	20	IS	RE	[1,1]		Namespace ID	
5.4.2	199	ST	R			Universal ID	
5.4.3	6	ID	R	[1,1]	HL70301	Universal ID Type	
5.5	5	ID	R	[1,1]	HL70203	Identifier Type Code	
5.6	227	HD	RE	[1,1]		Assigning Facility	
5.6.1	20	IS	RE	[1,1]		Universal ID	
5.6.2	199	ST	R			Universal ID Type	
5.6.3	6	ID	R	[1,1]	HL70301	Identifier Type Code	
5.7	8	DT	O	[1,1]		Effective Date	
5.8	8	DT	O	[1,1]		Expiration Date	
5.9	705	CWE	O	[1,1]		Assigning Jurisdiction	
5.10	70	CWE	O	[1,1]		Assigning Agency or Department	
<u>End OBX-5 Data Types</u>							
6	483	CWE	C(R/X)	[0,1]	UCUM	Units	Field populated with units of measure if the data type identified in OBX.2 (and carried in OBX.5) is ""SN." If we use C, then need to explain to use "1" for any unitless value in OBX.5, for example a titer. Note: If the data type in OBX 2 is "NM" or "SN" and the OBX-11 observation result status is not 'X' then this field is Required.
6.1	20	ST	RE	[1,1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
6.2	199	ST	C(RE/X)	[1,1]		Text	Standardized description.

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Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
6.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
6.4	20	ST	RE	[1,1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
6.5	199	ST	C(RE/X)	[1,1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
6.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
6.7	10	ST	RE	[1,1]		Coding System Version ID	Version of code system identified in component 3
6.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Version of code system identified in component 6
6.9	199	ST	C(R/X)	[1,1]		Original Text	Original text
7	60	ST	RE	[0,1]		References Range	Interpretation range that applies to the value reported in OBX-5. It should provide enough information to understand the abnormal flags reported in OBX.8.
8	20	CWE	C(RE/X)	[0,*]	HL7078	Abnormal Flags	Indicator of the normalcy of the result found in OBX.5.
8.1	20	ST	RE	[1,1]		Identifier	Interpretation code from HL7 table 0078
8.2	199	ST	C(RE/X)	[1,1]		Text	Interpretation code text from HL7 table 0078
8.3	12	ID	C(R/X)	[1,1]	HL70396	Name of Coding System	Literal: 'HL70078'
8.4	20	ST	RE	[1,1]		Alternate Identifier	Note: Can be empty in PHLIP
8.5	199	ST	C(RE/X)	[1,1]		Alternate Text	
8.6	12	ID	C(R/X)	[1,1]	HL70396	Name of Alternate Coding System	

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Seq	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
8.7	10	ST	RE	[1,1]		Coding System Version ID	Version of HL7 table 0078
8.8	10	ST	RE	[1,1]		Alternate Coding System Version ID	Recommended if a coding system is identified in component 6.
8.9	199	ST	C(R/X)	[1,1]		Original Text	Original text
9	5	NM	O	[0,1]		Probability	
10	2	ID	O	[0,1]	HL7080	Nature of Abnormal Test	
11	1	ID	R	[1,1]	HL7085	Observation Result Status	<p>Status of the observation result.</p> <p>Corrected Results: A corrected result occurs when a previously final result report (i.e., an OBR and associated OBXs where OBR-25 was "Final" and all OBX-11s were Final) is being resent with a change to a value in one or more OBXs.</p> <p>OBR-25 (Result Status): The status of the entire report is marked as "C-Corrected" in OBR-25.</p> <p>OBX-11 (Observation Result Status): The status of each OBX is marked as either "Final" or "Corrected." Those OBX values being corrected should have an OBX-11 status of "C-Corrected." Those OBX values that remain unchanged should have an OBX-11 status of "F-Final." A minimum of one OBX must be marked as corrected.</p> <p>OBX-11 = "N" - Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.</p> <p>OBX-11 = "X" - Results cannot be obtained for this observation</p>
12	26	TS	O	[0,1]		Effective Date of Reference Range Values	
13	20	ST	O	[0,1]		User Defined Access Checks	
14	26	TS	CE	[0,1]		Date/Time of the Observation	Specimen collection date and time. This is the same as OBR.7 and SPM.17
14.1	24	DTM	R	[1,1]		Time	
15	483	CWE	O	[0,1]		Producer's ID	

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Seg	Len	Dt	Usage	Cardinality	Value Set Name	Element Name	Description
16	2945	XCN	O	[0..*]		Responsible Observer	
17	483	CWE	RE	[0..*]	HL7 V3 Observation Method	Observation Method	Additional details about the test method
17.1	20	ST	RE	[1..1]		Identifier	Standardized code. Rule of conditionality: The standard code component is mandatory unless there is no standard to match the local value passed by the application. An attempt will be made by the sender to map the local value to the standard. In the case that no standard code was found, this field may be blank.
17.2	199	ST	C(RE/X)	[1..1]		Text	Standardized description.
17.3	12	ID	C(R/X)	[1..1]	HL70396	Name of Coding System	HL7 identifier for Coding System (e.g. "LN" = LOINC). Rule of conditionality: The HL7 coding system identifier is always required if there is a value in component 1.
17.4	20	ST	RE	[1..1]		Alternate Identifier	Local code. Rule of conditionality: The local code component is mandatory if there is no standard to match the local value passed by the application AND there is no text present in component 5.
17.5	199	ST	C(RE/X)	[1..1]		Alternate Text	Local description. Note that if the field is collected as text in the application, this may be the only field populated if the data type is "Coded." Rule of conditionality: Required if no standardized code or local code value passed.
17.6	12	ID	C(R/X)	[1..1]	HL70396	Name of Alternate Coding System	Locally defined codes for purpose of sender or receiver. Local codes can be identified by "L" (for backward compatibility) or "99zzz" (where z is an alphanumeric character). Rule of conditionality: Required if an alternate identifier is present.
17.7	10	ST	RE	[1..1]		Coding System Version ID	Recommended if a coding system is identified in component 3.
17.8	10	ST	RE	[1..1]		Alternate Coding System Version ID	Recommended if a coding system is identified in component 6.
17.9	199	ST	C(R/X)	[1..1]		Original Text	Original text
18	427	EI	O	[0..*]		Equipment Instance Identifier	

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<u>Seq</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
19	26	TS	RE	[0,1]		Date/Time of the Analysis	Time at which the testing was performed Note: Use this field instead of OBX.14 for date and time of testing. (CLIA requirement)
19.1	24	DTM	R	[1,1]		Time	
23	567	XON	R	[1,1]		Performing Organization Name	Name and ID of the performing lab Note: For producing laboratories that are CLIA-certified, the CLIA identifier should be used for the organization identifier (component 10).
23.1	50	ST	C(R/RE)	[1,1]		Organization Name	Name of the performing lab
23.2	20	IS	RE	[1,1]	HL70204	Organization Name Type Code	Name type code of the performing Lab
23.4	4	NM	O	[1,1]		Check Digit	
23.5	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
23.6	227	HD	C(R/X)	[1,1]		Assigning Authority	Organization that assigned LAB ID Note: The assigning authority is CLIA for CLIA certified labs
23.6.1	20	IS	RE	[1,1]		Namespace ID	Namespace ID of entity (e.g. CLIA) that assigned the facility identified below
23.6.2	199	ST	R			Universal ID	OID of entity (e.g. CLIA) that assigned the identifier Note: If the ID is an NPI use: 2.16.840.1.113883.4.6. If it's a CLIA number use: 2.16.840.1.113883.4.7
23.6.3	6	ID	R	[1,1]	HL70301	Universal ID Type	Literal value: 'ISO'
23.7	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	
23.8	227	HD	O	[1,1]		Assigning Facility	
23.9	1	ID	O	[1,1]	HL70465	Name Representation Code	
23.10	20	ST	RE	[1,1]		Organization Identifier	Public Health Lab CLIA ID
24	631	XAD	R	[1,1]		Performing Organization Address	The Address of the laboratory that actually performed the test - whether or not is used as a reference laboratory.
24.1	184	SAD	RE	[1,1]		Street Address	
24.1.1	120	ST	R	[1,1]		Street or Mailing Address	
24.1.2	50	ST	O	[0,1]		Street Name	
24.1.3	12	ST	O	[0,1]		Dwelling Number	

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<u>Seq</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
24.2	120	ST	RE	[1,1]		Other Designation	Other Designation Note: This isn't needed for most addresses. It could be a district name, building name, floor number, etc
24.3	50	ST	RE	[1,1]		City	City
24.4	50	ST	RE	[1,1]	State Value Set	State or Province	State or Province Note: FIPS 5-2 alpha codes are supported
24.5	12	ST	RE	[1,1]	Postal Code Value Set	Zip or Postal Code	Zip or Postal Code Note: US Zip Codes, Zip+4 and Canadian Postal Codes are supported.
24.6	3	ID	RE	[1,1]	Country Value Set	Country	Country
24.7	3	ID	RE	[1,1]	HL70190	Address Type	Address Type code from HL7 Table 190
24.8	50	ST	O	[1,1]		Other Geographic Designation	May be used for MSAs (Metropolitan and Micropolitan Statistical Areas). Source: http://www.whitehouse.gov/omb/bulletins/fy2007/b07-01.pdf
24.9	20	IS	RE	[1,1]	PHYS County FIPS 6-4	County/Parish Code	County code from FIPS6_4 Note: This element can be empty of PHLIP
24.10	20	IS	O	[1,1]		Census Tract	
24.11	1	ID	O	[1,1]		Address Representation Code	
24.13	24	TS	O	[1,1]		Effective Date	
24.14	24	TS	O	[1,1]		Expiration Date	
25	3002	XCN	RE	[0,1]		Performing Organization Medical Director	Public Health Lab Director
25.1	15	ST	RE	[1,1]		ID Number	
25.2	194	FN	RE	[1,1]		Family Name	
25.2.1	50	ST	R	[1,1]		Surname	
25.2.2	20	ST	O	[1,1]		Own Surname Prefix	
25.2.3	50	ST	O	[1,1]		Own Surname	
25.2.4	20	ST	O	[1,1]		Surname Prefix From Partner/Spouse	
25.2.5	50	ST	O	[1,1]		Surname From Partner/Spouse	
25.3	30	ST	RE	[1,1]		Given Name	

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<u>Seg</u>	<u>Len</u>	<u>Dt</u>	<u>Usage</u>	<u>Cardinality</u>	<u>Value Set Name</u>	<u>Element Name</u>	<u>Description</u>
25.4	30	ST	RE	[1,1]		Second and Further Given Names or Initials Thereof	
25.5	20	ST	RE	[1,1]		Suffix (e.g., JR or III)	
25.6	20	ST	RE	[1,1]		Prefix (e.g., DR)	
25.7	20	IS	O	[1,1]	HL70360	Degree (e.g., MD)	
25.8	20	IS	O	[1,1]	HL70297	Source Table	
25.9	227	HD	C(R/X)	[1,1]		Assigning Authority	
25.6.1	20	IS	RE	[1,1]		Namespace ID	
25.6.2	199	ST	R			Universal ID	
25.6.3	6	ID	R	[1,1]	HL70301	Universal ID Type	
25.10	5	ID	RE	[1,1]	HL70200	Name Type Code	
25.11	4	ST	O	[1,1]		Identifier Check Digit	
25.12	3	ID	O	[1,1]	HL7061	Check Digit Scheme	
25.13	5	ID	C(R/X)	[1,1]	HL70203	Identifier Type Code	
25.14	227	HD	RE	[1,1]		Assigning Facility	
25.14.1	20	IS	RE	[1,1]		Namespace ID	
25.14.2	199	ST	R			Universal ID	
25.14.3	6	ID	R	[1,1]	HL70301	Universal ID Type	
25.15	1	ID	O	[1,1]	HL70465	Name Representation Code	
25.16	483	CE	O	[1,1]	HL70448	Name Context	
25.18	1	ID	O	[1,1]	HL70444	Name Assembly Order	
25.19	8	TS	O	[1,1]		Effective Date	
25.20	8	TS	O	[1,1]		Expiration Date	
25.21	199	ST	RE	[1,1]		Professional Suffix	
25.22	705	CWE	O	[1,1]		Assigning Jurisdiction	
25.23	705	CWE	O	[1,1]		Assigning Agency or Department	

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3 PHLIP DATA ELEMENTS OF INTEREST

3.1 COLUMN DEFINITIONS FOR ELEMENTS OF INTEREST TABLE

Column	Description
Program Variables Section	
PHIN Variable ID	PHIN element UID drawn from the coding system PH_PHINQuestions_CDC
Label	Short name for the data element, which is passed in the message.
Description	Description of the data element.
Data Type	Data type for the variable response expected by the program area
Prog. Req/Opt	Indicator whether the program specifies the field as: R - Required - mandatory for sending the message RE – Required, but may be empty – sender must be able to process (collect/store, display/print etc) this data element and needs to send data, if information is available, but need not make up “null” values, if information is not available O - Optional - if the data is available it should be passed
May Rpt	Indicator whether the response to the data element may repeat. “Yes” in the field indicates that it may; otherwise, the field is not populated. Repeats require special processing.
Value Set Name	Name of the pre-coordinated value set from which the response is drawn. The value sets and coding systems are accessible via the Public Health Information Network Vocabulary Access and Distribution Services at http://phinvads.cdc.gov/vads/SearchVocab.action
Message Mapping Methodology Section	
Message Context	Specific HL7 segment and field mapping for the element.

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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HL7 Data Type	HL7 data type used by PHIN to express the variable.
HL7 Usage	Use of the field for PHIN. Indicates if the field is required, optional, or conditional in a segment. The only values that appear in the Message Mapping are: <ul style="list-style-type: none"> • R – Required. Must always be populated • O – Optional. May optionally be populated.
HL7 Rpt	Indicator whether the response to the data element may repeat. "Yes" in the field indicates that it may; otherwise, the field is not populated. Repeats require special processing.

3.2 DATA ELEMENTS OF INTEREST FOR UNSOLICITED RESULTS

The CDC Influenza Epidemiologists have defined the elements listed in the following table as Data Elements of Interest.

The PHLIP Data Elements of Interest are cross-referenced below to the HL7 context in which the element would be expressed in the unsolicited result message. Please note that all of the Data Elements of Interest for the unsolicited result are included, although each site may opt not to send a particular data element that is not a required data element.

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
DEM197	Local patient ID	The local ID of the patient/entity.	Text	R			PID-3 Patient Identifier List (Note that the variable ID and label do not appear in the message.)	CX	R	
DEM115	Birth Date	Reported date of birth of patient.	Date	RE			PID-7 Date/Time of Birth (Note that the variable ID and label do not appear in the message.)	TS	O	
DEM113	Patient's sex	Patient's current sex.	Code	O		Administrative Sex	PID-8 Administrative Sex (Note that the variable ID and label do not appear in the message.)	IS	O	
DEM162	Patient Address State	Patient's address state.	Code	RE		State	PID-11.4 Patient Address - State (Note that the variable ID and label do not appear in the message.)	ST	O	
DEM163	Patient Address Zip Code	Patient's address zip code.	Text	RE			PID-11.5 Patient Address - Postal Code (Note that the variable ID and label do not appear in the message.)	ST	O	
DEM165	Patient Address County	County of residence of the subject.	Code	RE		County	PID-11.9 Patient Address – County or OBX.5 Observation Value	IS	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB505	Submitting Laboratory Name	Name of organization collecting specimen	Text	O			OBR-10 Collector Identifier (Note that the variable ID and label do not appear in the message.)	XCN	O	
LAB128	Submitting Physician Name	Ordering Provider	Text	O			OBR-16 Ordering Provider (Note that the variable ID and label do not appear in the message.)	XCN	O	
LAB143	Laboratory ID	Laboratory ID of the public health lab sending the result	OID	R			MSH-4.2 Sending Facility-Universal ID component (Note that the variable ID and label do not appear in the message.) MSH-4.3 Universal ID Type. Literal value: 'ISO'	HD	R	
LAB163	Collection Date	Date clinical specimen was collected	Date	C			OBR-7 Observation Date/Time (Note that the variable ID and label do not appear in the message.) Conditionality Rule: If Receive Date is not populated, Collection Date must be present.	TS	R	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB334	Receive Date	Date specimen was received at public health laboratory	Date	C			OBR-14 Specimen Received Date/Time (Note that the variable ID and label do not appear in the message.) Conditionality Rule: If Collection Date is not populated, Receive Date must be present	TS	O	
LAB165	Specimen Source	Source of Specimen	Code	R		Specimen Source (PHLIP)	OBR-15 Specimen Source (Note that the variable ID and label do not appear in the message.)	CM	O	
LAB101	Test Performed-Code	Test code as known by the laboratory	Code	R		Resulted Lab Test Name (PHLIP Flu) or PHLIP Questions (Flu)	OBX-3 Observation Identifier (Note that the variable ID and label do not appear in the message.)	2.3.1: CE 2.5.1: CWE	R	
LAB114	Numeric Result Value	Test result in numeric format	Nu-mer-ic	C			OBX-5 Observation Value	SN	O	
LAB192	Coded Result Value	Test result as coded value	Code	C		Lab Test Result (PHLIP Flu)	OBX-5 Observation Value	2.3.1: CE 2.5.1: CWE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB108	Test Date	Date specimen/ isolate was tested	Date	O			OBX-14 Date/Time of Observation (Note that the variable ID and label do not appear in the message.) <i>Note: This is a deviation from HL7 2.3.1 where this field is the Collection Date/Time.</i>	TS	O	
LAB202	Specimen ID	Unique specimen/ accession/ aliquot ID assigned by laboratory-	Code	R			Observation/OBX Segment with this variable ID and label. OBX-2 = CX OBX-3 = LAB202^Unique Specimen ID^PHINQUESTION OBX-5 = Specimen ID^^^Assigning Authority Name&Assigning Authority ID&Assigning Authority ID Type	CX	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
21612-7	Reported Patient Age	Patient's age as reported in an application at the source	Numeric with Units	RE			Observation/OBX Segment with this variable ID and label. OBX-2 = SN OBX-3 = 21612-7^ Age Patient Qn Reported^LN OBX-5 = Age number OBX-6 = Age units	SN	O	
FLU002	Vaccinated	Was the patient vaccinated for Influenza?	Code	O		Yes No Unknown (YNU)	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = FLU002^ Was the patient vaccinated for influenza?^ PHINQUESTION OBX-5 = Y/N Identifier^Text^HL70136 Or UNK^unknown^ NULLFL	2.3.1: CE 2.5.1: CWE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
FLU001	Antiviral Medication	Was the patient receiving influenza antiviral medication?	Code	O		Yes No Unknown (YNU)	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = FLU001^Was the patient receiving influenza antiviral medication? ^PHINQUESTION OBX-5 = Y/N^Identifier^Text^HL70136 Or UNK^unknown^ NULLFL	2.3.1: CE	O	
LAB514	Outbreak Related	Was the specimen outbreak related?	Code	O		Yes No Unknown (YNU)	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = LAB514^ Was this specimen related to an outbreak?^PHINQUESTION OBX-5 = Y/N^Identifier^Text^HL70136 Or UNK^unknown^ NULLFL	2.3.1: CE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB330	Type of Facility	Did the specimen come from an outpatient, inpatient or long-term care facility?	Code	O		Patient Location Status at Specimen Collection	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = LAB330^ Patient location status at specimen collection (e.g., outpatient, inpatient, long-term care).^PHINQUESTION OBX-5 = I/O/ Identifier^Text^HL70004 Or 282E00000X^Long Term Care Hospital^ HCPT	2.3.1: CE 2.5.1: CWE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

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Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
PHLIP01	Travel Outside the US	Did the patient travel outside the U.S. within 10 days of illness onset?	Code	O		Yes No Unknown (YNU)	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = PHLIP01^Did the patient travel outside the U.S. within 10 days of illness onset?^PHINQUESTION OBX-5 = Y/N^Identifier^Text^HL70136 Or UNK^unknown^ NULLFL	2.3.1: CE 2.5.1: CWE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
TRAVEL05	Destination (s) Traveled To	International destination(s)	Code	O		Country	<p>Observation/OBX Segment with this variable ID and label</p> <p>2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE</p> <p>OBX-3 = TRAVEL05^ International destination(s) ^PHINQUESTION</p> <p>OBX-5 = Country Identifier^Text^ISO3166-1^Local Identifier^Local Text^Name of Coding System</p> <p>Business Rule: Only applicable if PHLIP01 was "Yes".</p>	2.3.1: CE 2.5.1: CWE	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB515	Isolate Sent to CDC	Is Isolate being sent to CDC?	Code	O		Yes No Unknown (YNU)	Observation/OBX Segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = LAB515^Was isolate sent to CDC? ^PHINQUESTION OBX-5 = Y/N^Identifier^Text^HL70136 Or UNK^unknown^ NULLFL	2.3.1: CE 2.5.1: CWE	O	
11368-8	Illness Onset Date	Date and time of illness onset	Date	O			Observation/OBX Segment with this variable ID and label OBX-2 = TS OBX-3 = 11368-8^ILLNESS/INJURY ONSET DATE/TIME^LN OBX-5 = Date/time of illness onset = TS	TS	O	

INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req/ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
LAB517	Isolate ID Sent to CDC	Laboratory ID assigned to the isolate sent to the CDC	Code	O			Observation/OBX Segment with this variable ID and label OBX-2 = CX OBX-3 = LAB517^Identifier assigned by laboratory to the isolate sent to CDC^PHINQUESTION OBX-5 = Isolate ID^^Assigning Authority Name&Assigning Authority ID&Assigning Authority ID Type	CX	O	
PHLIP02	Passage History	History of Culture Medium	Text	O			Observation/OBX segment with this variable ID and label OBX-2 = TX OBX-3 = PHLIP02^History of culture medium ^PHINQUESTION OBX-5 = Passage History Text Description	TX	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
95417-2	First Test	Is the patient's first test for the condition of interest	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 95417-2^First test for condition of interest^LN OBX-5 OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	
95418-0	Employed in Healthcare	Is the patient employed in a healthcare setting	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 95418-0^Employed in a healthcare setting^LN OBX-5 OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
95419-8	Symptomatic	Did the patient have symptoms related to condition of interest	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 95419-8^Has symptoms related to condition of interest^LN OBX-5 OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	
65222-2	Date of Symptom Onset	Date and time of symptom onset	Date	O		mm/dd/yy	Observation/OBX segment with this variable ID and label OBX-2 = DT OBX-3 = UPDATED LOINC 65222-2^Date and time of symptom onset^LN OBX-5 = formatted as YYYYMMDD	DT or TS	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
75325-1	Symptoms	Symptoms the patient experienced	Code	O			Observation/OBX segment with this variable ID and label OBX-2 = CWE OBX-3 =75325-1^Symptom^LN OBX-4 = if needed for more than one symptom (suggest to number sequentially starting with "1" for each occurrence) OBX-5 can be one of: 49727002^Cough^SCT 426000000^Fever over 100.4 Fahrenheit^SCT 267036007^Shortness of Breath^SCT 84229001^Fatigue^SCT 25064002^Headache^SCT 62315008^Diarrhea^SCT 103001002^Feeling feverish^SCT 43724002^Chills^SCT 230145002^Difficulty breathing^SCT 68962001^Muscle pain^SCT 36955009^Loss of sense of taste^SCT 44169009^Loss of sense of smell^SCT 162397003^Sore throat^SCT 68235000^Nasal congestion^SCT 64531003^Nasal Discharge^SCT 422587007^Nausea^SCT 422400008^Vomiting^SCT	2.3.1: CE 2.5.1: CWE	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
77974-4	Hospitalization	Patient hospitalization status due to condition	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 77974-4^Patient was hospitalized because of this condition^LN OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	
95420-6	ICU	Patient was admitted to intensive care unit for condition of interest	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 95420-6^Admitted to intensive care unit for condition of interest^LN OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
95421-4	Congregate Care	Did the patient reside in a congregate care setting	Code	O		Yes No Unknown (YNU)	Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 95421-4^Resides in a congregate care setting^LN OBX-5 can be one of: Y^Yes^HL70136 N^No^HL70136 UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
75617-1	Residence Type	The type of residence of the congregate care setting	Code	O			Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 75617-1^Residence type^LN OBX-5 can be one of: 22232009^Hospital^SCT 2081004^Hospital ship^SCT 32074000^Long term care hospital^SCT 224929004^Secure hospital^SCT 42665001^Nursing home^SCT 30629002^Retirement home^SCT 74056004^Orphanage^SCT 722173008^Prison-based care site^SCT 20078004^Substance abuse treatment center^SCT 257573002^Boarding house^SCT 224683003^Military accommodation^SCT 284546000^Hospice^SCT 257628001^Hostel^SCT 310207003^Sheltered housing^SCT 257656006^Penal institution^SCT 285113009^Religious institutional residence^SCT	2.3.1: CE 2.5.1: CWE	O	

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Program Specific Data Elements for Unsolicited Results							Mapping Methodology			
Variable ID	Label	Description	Data Type	Prog. Req./ Opt	May Rpt	Value Set Name	Message Context	HL7 Data Type	HL7 Usage	HL7 Rpt
82810-3	Pregnant	Pregnancy status of patient	Code	O			Observation/OBX segment with this variable ID and label 2.3.1 OBX-2 = CE 2.5.1 OBX-2 = CWE OBX-3 = 82810-3^Pregnancy status^LN OBX-5 can be one of: 77386006^Patient currently pregnant^SCT 102874004^Possible pregnancy^SCT 60001007^Not pregnant^SCT UNK^Unknown^NULLFL	2.3.1: CE 2.5.1: CWE	O	
30525-0	Age	Patient Age	Numeric with Units	O			Observation/OBX segment with this variable ID and label OBX-2 = NM (can be SN) OBX-3 = 30525-0^Age^LN^^2.68 OBX-5 = numeric value OBX-6 = age units in UCUM as applicable - expected as years => a^year^UCUM other options: months => mo^month^UCUM days => d^day^UCUM hours => h^hour^UCUM	NM or SN	O	

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4 SAMPLE HL7 MESSAGE

4.1 STORYBOARD

Dr. Marcus Welby, Jr., sees Jared Doe, Jr., a 30-year-old male, during an office visit. Jared Doe presents symptoms of fever, cough, sore throat and muscle aches, all consistent with a diagnosis of influenza or SARS-CoV-2. While examining the patient, Dr. Welby discovers that Mr. Doe has been traveling outside of the United States recently, specifically Italy, West Africa, and Bangkok. Dr. Welby decides to order an Influenza and SARS-CoV-2 Identification Test from his local public health department to determine the type of virus the patient has acquired.

A sputum sample is taken from the patient, and an electronic order for the testing is placed through Dr. Welby's EHR application, a Northeast Medical Center ordering application. The Northeast Medical Center ordering application transmits the order to the Virginia State STARLIMS application for processing. Dr. Welby sends the patient home, prescribing bed rest, plenty of fluids and an anti-inflammatory, such as ibuprofen or aspirin.

The Virginia State Public Health Laboratory tests the specimen collected from Mr. Doe and finds it to be positive for influenza A and negative for SARS-CoV-2. The laboratory tests the specimen further to determine the subtype of the influenza virus and finds the specimen is not positive for normally circulating influenza viruses. They further test the virus for influenza A/H5 and A/H7 based on Mr. Doe's travel history.

4.1.1 Sample HL7 V2.3.1

```
MSH|^~\&|VA STARLIMS Stage^2.16.840.1.114222.4.3.3.2.2.1^ISO|VA PHL
Richmond^2.16.840.1.114222.4.1.9977^ISO|US WHO Collab LabSys^2.16.840.1.114222.4.3.3.7^ISO|CDC EPI Surv
Branch^2.16.840.1.114222.4.1.10416^ISO|200707071830||ORU^R01|200707070897|P|2.3.1 |||||
PHLIP_ORU_v1.0.2^PHIN_Profile_ID^2.16.840.1.114222.4.10.3^ISO<cr>

PID|1||105431122VA^^VA STARLIMS Stage^2.16.840.1.114222.4.3.3.2.2.1&ISO^MR^VA PHL
Richmond^2.16.840.1.114222.4.1.9977&ISO||Doe^Jared^Q^Jr^^BBA^L||19760909|M||2106-3^White^CDCREC~2028-
9^Asian^CDCREC|2166 Wells Dr^AptB^Richmond^51^23235^US^H|||||||2186-5^Not Hispanic or
Latino^CDCREC^N^Not Hispanic^L|||||||N<cr>

ORC|RE|NE5400123^NE Med System^2.16.840.1.114222.75.9.1.2.1^ISO|F67993405^VA STARLIMS
Stage^2.16.840.1.114222.4.3.3.2.2.1^ISO||CM|||||||Northeast Medical Center|1600 Hospital
Drive^Ste 350^Richmond^51^23235^US^M|^WPN^PH^^^804^6486154^320~^NET^X.400^jsmith@neastmed.com <cr>

OBR|1|NE5400123^NE Med System^2.16.840.1.114222.75.9.1.2.1^ISO|F67993405^VA STARLIMS
Stage^2.16.840.1.114222.4.3.3.2.2.1^ISO|PLT40^Epidemiologically Important Information -
Influenza^PLT|||200706270930|||||200706271530|SPT&Sputum& HL70070&SPU&Sputum&L|
^Welby^Marcus^J^Jr^Dr^MD|||||||F<cr>

OBX|1|SN|21612-7^Age Patient Qn Reported^LN||^30|a^year^UCUM|||||F<cr>

OBX|2|CE|FLU002^Was the patient vaccinated for Influenza?^PHINQUESTION||Y^Yes^HL70136|||||F<cr>
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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

OBX|3|CE|FLU001^Was the patient receiving influenza antiviral medication?^PHINQUESTION||N^No^HL70136|||||F<cr>
OBX|4|CE|LAB514^Was this specimen related to an outbreak?^PHINQUESTION||Y^Yes^ HL70136|||||F<cr>
OBX|5|CE|LAB330^Patient location status at specimen collection (e.g., outpatient, inpatient, long-term care)^PHINQUESTION||O^Outpatient^HL70489|||||F<cr>
OBX|6|CE|PHLIP01^Did the patient travel outside the U.S. within 10 days of illness onset?^PHINQUESTION||Y^Yes^HL70136|||||F<cr>
OBX|7|CE|TRAVEL05^International destination(s)^PHINQUESTION||IT^Italy^ISO3166-1~^^WTAFA^West Africa^L~^^BANT^Bangkok^L|||||F<cr>
OBX|8|CE|LAB515^Is Isolate being sent to CDC?^PHINQUESTION||Y^Yes^ HL70136|||||F<cr>
OBX|9|TS|11368-8^ILLNESS/INJURY ONSET DATE/TIME^LN||20070622|||||F<cr>
OBX|10|CX|LAB517^Identifier assigned by laboratory to the isolate sent to CDC^PHINQUESTION||A16170^^^VA STARLIMS_Stage&2.16.840.1.114222.4.3.3.2.2.1&ISO|||||F<cr>
OBX|11|TX|PHLIP02^History of culture medium^PHINQUESTION||E1 One Time in Egg|||||F<cr>
OBX|12|IS|DEM165^Patient Address County^PHINQUESTION||Prince William|||||F<cr>
OBR|2|NE5400123^NE Med System^2.16.840.1.114222.75.9.1.2.1^ISO|F67993405^VA STARLIMS Stage^2.16.840.1.114222.4.3.3.2.2.1^ISO|PLT77^Influenza Virus Detection and Identification^PLT||| 200706270930|||||200706271530|SPT&Sputum&HL70070&CSW&Cheek Swab&L|^Welby^Marcus^J^Jr^Dr^MD|||||F<cr>
OBX|1|CX|LAB202^Unique Specimen ID^PHINQUESTION||VA12345^^^VA STARLIMS Stage&2.16.840.1.114222.4.3.3.2.2.1&ISO|||||F<cr>
OBX|2|CE|22827-0^FluAV subtype XXX PCR^LN||PLR67^Influenza A H5 asian lineage detected^PLR|||A|||F||| 200707011422<cr

4.2.1 STORYBOARD

Arkansas Hospital sees Jared Doe, Jr., a 60-year-old male, during an office visit. Jared Doe presents symptoms of fever, cough, sore throat and muscle aches, all consistent with a diagnosis of influenza.

A nasal sinus sample is taken from the patient, and an electronic order for the testing is placed through Arkansas Hospital's ordering application. Arkansas Hospital's ordering application transmits the order to the Arkansas State STARLIMS application for processing. The attending physician sends the patient home, prescribing bed rest, plenty of fluids and an anti-inflammatory, such as ibuprofen or aspirin.

The Arkansas State Public Health Laboratory tests the specimen collected from Mr. Doe and finds it to be positive for influenza A/H3N2.

4.2.2 Sample HL7 V2.5.1

MSH|^~\&#|STARLIMS.AR.STAG^2.16.840.1.1142221422.4.3.3.2.5.2^ISO|AR.LittleRock.SPHL^2.16.840.1.113214222.4.1.29999 ^ISO|US WHO Collab LabSys^2.16.840.1.114222.4.3.3.7^ISO|CDC-EPI Surv

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INFLUENZA VIRUS (ELECTRONIC, YEAR ROUND), PHLIP_HL7 MESSAGING DATA ELEMENTS

OMB NO. 0920-0004

Branch^2.16.840.1.114222.4.1.10416^ISO|20200207145629-
0600||ORU^R01^ORU_R01|40708|T|2.5.1|||NE|NE|USA|||PHLabReport-
NoAck^ELR251R1 Rcvr Prof^2.16.840.1.1126323883.9.12991^ISO-PHLIP_ELSM_251^PHLIP_Profile_Flu^2.16.840.1.1132562883.
9.17159^ISO

SFT|Abbott Laboratories|PH12.0.18|STARLIMS|11.5.6||20201008

PID|1||CZ234567^^^STARLIMS.AR.Prod&2.16.840.1.112254222.4.3.3.2.5.1&ISO^PI||Pid5~^^^^^S|^M|19620622|M|2054-
5^Black or African American^CDCREC^^^^^Hispanic or Latino|^USA|||H^Hispanic or
Latino^HL70189^^^HL7v2.5.1^Hispanic or Latino

ORC|RE|M00000594^AR.CCI.Stag^2.16.840.1.1122153154222.4.1.105.44.2^ISO|M00000594-
230^STARLIMS.AR.Prod^2.16.840.1.125312254222.4.3.3.2.5.1^ISO||CM|^PRN^PH^1^555^5551234|||Arkansas
Hospital|1234 Main St^Little Rock^AR^55555|^1^555^5551234

OBR|1|M00000594^AR.CCI.Stag^2.16.840.1.112254222.4.1.105.44.2^ISO|M00000594-
230^STARLIMS.AR.Prod^2.16.840.1.112211454222.4.3.3.2.5.1^ISO|48509-4^FLUAV + FLUBV RNA XXX
NAA+probe^LN^^^FluAB||202002051800-0600|||^PRN^PH^1^555^5551234|||20200206073248-0600|||F

OBX|1|CWE|48509-4^Influenza virus A and B RNA [Identifier] in Unspecified specimen by NAA with probe
detection^^|446645007^Influenza A virus subtype H3^SCT^^^^^Influenza A virus subtype H3|||F||202002051800-
0600|||^PCR||202002060715-0600|||Public Health Laboratory,
AR^L^^^CLIA&2.16.840.1.113883.4.7&ISO^XX^^^04D1044168|1234 Main St^Little Rock^AR^55555^USA^B|^Doe^Director

SPM|1|^M00000594&STARLIMS.AR.PROD&2.16.840.1.112254222.4.3.3.2.5.1&ISO||430238007^Specimen from nasal sinus
(specimen)^SCT|||202002051800-0600|202002060707-0600

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