



## **NEW HAMPSHIRE Local Implementation Guide**

# **Electronic Laboratory Reporting for Communicable Disease and Lead Test Results Using HL7 2.5.1**

*Version 4.0  
5/23/2016*

## VERSION HISTORY

Version #	Implemented By	Revision Date	Reason
1.0	Michael Rogers	08/31/2011	Initial implementation
2.0	Ginny Martin	07/24/2013	Changed revision number. Corrected NHHIO in Appendix D; fixed order of name parts in PID-5; removed time zone requirement from MSH-7; corrected link for HL7 2.3.1 spec.
3.0	Ginny Martin	Not released	MU-related revisions; Revised Appendix A.
4.0	Chris Taylor	05/23/2016	Major re-write and expansion of entire document

## ABBREVIATIONS

Acronym	Term
AHEDD	Automated Hospital Emergency Department Data
CDC	U.S. Centers for Disease Control and Prevention
DHHS	Department of Health and Human Services
DPHS	New Hampshire Department of Health and Human Services, Division of Public Health Services
ELR	Electronic Laboratory Reporting
FIPS	Federal Information Processing Standard
HL7	Health Level Seven International Organization
LabCorp	Laboratory Corporation of America
LOINC	Logical Observation Identifiers Names and Codes
MU	Meaningful Use
NHEDSS	New Hampshire Electronic Disease Surveillance System
NHHIE	New Hampshire Health Information Exchange
NHHIO	New Hampshire Health Information Organization
NH PHL	New Hampshire Public Health Laboratories
ONC	Office of the National Coordinator for Health Information Technology
SNOMED	Systemized Nomenclature of Medicine

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## Acknowledgements

It should be noted that no official HL7 messaging specifications or other reference materials restricted to the use of HL7 members, or documents for sale through the HL7 website store were consulted at any point during the creation of this guide. All information about the HL7 2.5.1 specification, data types, fields, segments, and message types were compiled from publically available sources including implementation guides published by Alaska, California, the Centers for Disease Control and Prevention (CDC), Colorado, Connecticut, Kansas, Louisiana, Maine, Mayo Clinic, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Texas, Utah, Virginia, and Vermont. Additional online HL7 resources from <http://www.athenahealth.com>, <http://caristix.com>, <http://healthcare.nist.gov/>, public web pages from <http://www.hl7.org/> web site, <http://hl7api.sourceforge.net/>, <http://ihtsdo.org>, <https://loinc.org/> and <http://smarthl7.com/> were also consulted in the making of this guide. Orion Health developed the proprietary EDI Explorer tool used when developing and reviewing sample messages.

The Association of Public Health Laboratories, The St John's Group, The Greater Good Group, and UberOps, LLC are all excellent organizations who generously provided advice and instruction. Special thanks goes to Carmen Pugh and Steve Martin at LabCorp, Stephen Julien and Julie Luepke at Mayo Clinic, and Emily Skolfield at Catholic Medical Center for their editorial assistance; Liz Arnold and Regina Felder who provided dozens of hours of HL7 training assistance to New Hampshire back in 2010 and 2011 when working for SAIC; and Srinath Remala who worked tirelessly with New Hampshire in improving our capacity to consume electronic laboratory results messages. None of this work would have been possible without the concerted effort of the CDC, Health Level 7, National Institute for Standards and Technology and others to develop standards and technology for interoperable systems. An extra special thank you is extended to the Centers for Disease Control and Prevention for their technical, financial, and infrastructure support.

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## Purpose

This document provides instructions to help laboratories report laboratory test results electronically to the New Hampshire Department of Health and Human Services (NH DHHS), Division of Public Health Services (DPHS). Electronic Laboratory Reporting (ELR) provides an efficient and standardized manner of transferring individual laboratory results and enables interoperability between different health information systems. The Health Level Seven International Organization (HL7) developed the base messaging specification upon which this and other local implementation guides are based. NH DPHS is committed to supporting facilities in meeting the requirements for Meaningful Use involving the transmission of ELR data to NH DPHS. Please visit our [Meaningful Use website](#) for updated information pertaining to our support of MU measures.

## Legal Authority

New Hampshire law and rule require certain laboratory test results be reported to DPHS by laboratories and healthcare providers. Note that NH is a “dual reporting” state, meaning that both originating providers and reference laboratories are both legally responsible for reporting. Dual reporting is required to ensure that appropriate measures are taken to minimize the risk of others becoming ill from the same exposures. The Statutes requiring this reporting and their corresponding Administrative Rules are listed below:

### NH Statutes:

[RSA-141-C:7](#) (Reporting of Communicable Disease)

[RSA-130-A:3](#) (Blood Lead Analysis Laboratory Reporting)

### Administrative Rules:

[He-P 301.02](#) (Communicable Diseases- Reportable Diseases)

[He-P 301.03](#) (Communicable Diseases- Reporting of Communicable Diseases)

[He-P 1603.02](#) (Blood Lead Analysis- Reporting)

## Background

Since 2010, NH DPHS has been engaged in Meaningful Use planning, but even prior to the Meaningful Use initiative, DPHS was successful in implementing ELR from large commercial laboratories. There are several electronic surveillance systems used at NH DPHS that can consume ELR data. NH DPHS is a participant in the New Hampshire Health Information Organization (NHHIO) and capable of receiving data through their Health Information Exchange (HIE). Facilities may elect to send ELR messages to NH DPHS either directly or through the NHHIO HIE. (See [APPENDIX II - Data Feed Transport](#), for available transport options).

There are numerous benefits to facilities that provide reportable disease information to NH DPHS using ELR. These benefits including reducing staffing hours required to comply with reporting law, avoiding duplicate data entry, removing the need for multiple faxes and phone calls, and improving overall efficiency. This results in timelier reporting and improves public health investigations and response. Reporting lab results electronically also helps satisfy the HITECH Act criteria necessary to receive financial incentive payments for eligible facilities that provide Meaningful Use electronic data. (See [APPENDIX IV - References and Resources](#) for more information.)

## Intended Audience

This document is intended for use primarily by laboratorians who have responsibility for configuring their Laboratory Information Management System (LIMS) solution. This document makes the following assumptions about the average reader:

1. Laboratorians will have proficiency in managing their LIMS solution, but will not necessarily have proficiency in using the HL7 messaging specification.
2. Laboratorians would benefit from a quick tutorial in how to understand HL7 data types, and manually parse data elements from HL7 messages.
3. Laboratorians would appreciate the inclusion of all required primitive data type elements and instructions for those elements in segment definitions.
4. Laboratorians using this guide would appreciate fully parsed examples so they won't have to spend their time counting pipes, carets, etc. when trying to understand the examples.
5. Laboratorians will not necessarily have access to all of the primary source documents other states have referenced in their guides, and would prefer an all-inclusive reference guide over the prospect of finding and obtaining multiple documents, and then having to cross reference those guides.

This guide is also intended to consolidate the disparate requirements for HIV, STD/STI, Lead, and communicable disease reporting into a single standardized message construction standard.

## Electronic Lab Reporting

A lab report is sent from a facility to NH DPHS using HL7 formatted messages over a secure transport mechanism. These messages contain structured laboratory results including sending facility information, ordering provider and patient identifiers, specimen information, test(s) ordered, and the corresponding test result(s).

This guide is intended to be a clarification to the “official” HL7 messaging guide published by Health Level Seven International. This guide explains how to adapt the official guide so it will conform to New Hampshire statute and administrative rule. This local implementation guide omits many data elements included in Health Level Seven International’s official guide that are not required when reporting laboratory results. The official guide for ELR HL7 messaging is available from Health Level Seven International, and may be purchased through the HL7.org website.

The tables in this document detail the required and preferred message segments and fields in NH’s HL7 messaging implementation. This information is critically important when the state initiates public health interventions intended to check the spread of serious illness and disease. Additional information on the patient or disease not described in this implementation guide may be submitted in laboratory results messages at the prerogative of the reporting laboratory, but it should be known that those additional data elements are typically be ignored.

## HL7 2.x Electronic Data Interchange Messaging Primer

HL7 messages are built around a specific set of rules to convey data in a way that can be understood by data recipients. Understanding how these messages are constructed is critical to using this guide. There are 9 key concepts used to describe an HL7 message.

Basic HL7 Concepts	
Vocabulary	Definition / Example
Primitive Data Type	Field containing stand-alone information such as a string or an integer JOHN
Composite Data Type	A field composed of subfields. Subfields may be primitive data type fields, composite data type fields, or a combination of primitive and composite data type fields PUBLIC^JOHN^Q The “^” character separates composite data type elements in this example
Segments	Collection of related fields presented in a particular order NK1 1 PUBLIC^JOHN^Q “NK1” is the segment name and the “ ” character separates fields in this example
Message	Collections of related segments presented in a particular order MSH ^~\& RHAPSODY SONH  300001 20130523124634-0400000  ACK 3193608 P 2.5.1 MSA AA 21677350 “MSH” and “MSA” are the message segments that compose this message
Message Structure	A collection of message segments that must present in a specific sequence for the message to be valid. Different kinds of messages use different message structures. Though a message structure may support several message segments, not all of those segments are typically required for the message to be valid.
Message Type	A label used to describe a specific kind of message structure ORU is a message type used to convey Observation Results
Message Trigger	A label used to describe an event that requires the creation of a specific HL7 message. Message triggers are always associated with a message type. ORU^R01 messages convey unsolicited results observations ORU^R03 messages convey display oriented results, query/unsolicited updates
Message Version	The HL7 messaging specification is periodically updated. Each update changes the message construction rules. The message version number is used to define the specification update used when a message is constructed. “2.5.1” indicates that the HL7 message was composed using revision 2.5.1 of the HL7 messaging specification
Optionality/Usage	Indicator describing when a data field needs to be populated “R” indicates that a field is required



## HL7 Optionality

Field optionality is used to describe whether a field must be populated when creating an HL7 message. Optionality shall appear in the “Usage” column of tables in this guide

HL7 Field Optionality (a/k/a Usage)	
Usage	Description
R	Required
RE	Required but may be empty
C	Conditional
CE	Conditional but may be empty
O	Optional
B	Included for backwards compatibility
X	Not supported

“R” indicates that the information used to populate this field is required when reporting laboratory test results

“RE” means that a field is a required whenever a reporting laboratory that collects this information. Field is only to be left empty when the reporting laboratory does not collect the required information

“C” means that the information used to populate a field is required only when certain conditions are satisfied. This guide will clearly identify the exact conditions that must be satisfied to make this a required field

“CE” is similar in that it must be populated when certain conditions are satisfied. The only exception to this conditional rule is when the reporting laboratory does not collect the information used to populate this field.

“O” indicates that the information used to populate this field is optional. This information is generally helpful to state disease control staff, but is not required to be reported even when the reporting laboratory collects this information.

“B” is included in this list for completeness and as a clarification. “B” is used within several other HL7 guides, but not consistently defined.

“X” indicates that this information is not used by disease control staff and is generally ignored.

## HL7 Message Structure

Electronic laboratory reports shall be submitted using HL7 ORU R01 messages. These messages convey Unsolicited Laboratory Results where the following message segments shall appear in the following sequence:

HL7 Message Structure		
Segment	Notes	Usage
MSH	Message Header Segment	R
[SFT]	Software	X
PID	Patient Identifier Segment	R
[PD1]	Patient Additional Demographic	X
[NTE]	Patient Notes	X
[NK1]	Next of Kin	C
[PV1]	Patient Visit	X
[PV2]	Patient Visit – Additional Information	X
ORC	Order Common Segment	R
OBR	Observations Report Segment	R
[NTE]	Order Notes and Comments	X
[TQ1]	Timing/Quantity	X
[TQ2]	Timing/Quantity Relationship	X
[CTD]	Contact Data	X
OBX	Lab Test Observation/Results	R
[NTE]	Observation Notes and Comments	O
[FT1]	Financial Transaction	X
[CTI]	Clinical Trial Indicator	X
SPM	Specimen Segment	R
[OBX]	Specimen Observation/Result	X
[NTE]	Specimen Notes and Comments Segment	O
[DSC]	Continuation Pointer	X

Square brackets “[” and “]” are used to visually identify optional segments. Several segments in the above table are not supported by the State of New Hampshire’s Department of Health and Human Services within the scope of electronic laboratory results reporting, but are included to ensure that any laboratories that choose to send optional segments have them sequenced in the correct order.

## HL7 Data Types

The below tables describe the primitive and composite data types used in the message and segment definitions described in this local implementation guide.

### *Primitive Data Types*

Primitive Data Types		
Data Type	Field Name	Notes
ST	String	<ul style="list-style-type: none"> <li>String data</li> </ul>
FT	Formatted Text	<ul style="list-style-type: none"> <li>String data of arbitrary length (up to 64k)</li> <li>May contain formatting instructions enclosed in escape characters.</li> </ul>
ID	Coded Value from Reference Table	<ul style="list-style-type: none"> <li>The value of such a field follows the formatting rules for an ST field except that it is drawn from a table of legal values.</li> <li>There shall be an HL7 table number associated with ID data types. An example of an ID field is OBR-25-result status.</li> <li>This data type should be used only for HL7</li> <li>The reverse is not true, since in some circumstances it is more appropriate to use the CNE or CWE data type for HL7 tables.</li> </ul>
IS	Coded Value from User Defined Table	<ul style="list-style-type: none"> <li>The value of such a field follows the formatting rules for a ST field except that it is drawn from a site-defined (or user-defined) table of legal values.</li> <li>There shall be an HL7 table number associated with IS data types.</li> <li>This data type should be used only for user-defined tables</li> <li>The reverse is not true, since in some circumstances, it is more appropriate to use the CWE data type for user-defined tables.</li> </ul>
DT	Date	<ul style="list-style-type: none"> <li>Expresses the century and year with optional precision to month and day</li> </ul>
DTM	Date/Time	<ul style="list-style-type: none"> <li>Expresses a point in time using a 24-hour clock notation</li> </ul>
NM	Numeric	<ul style="list-style-type: none"> <li>A number represented as a series of ASCII numeric characters consisting of an optional leading sign (+ or -), the digits and an optional decimal point.</li> <li>In the absence of a sign, the number is assumed to be positive.</li> <li>If there is no decimal point the number is assumed to be an integer.</li> </ul>
SI	Sequence ID	<ul style="list-style-type: none"> <li>Non-negative integer</li> <li>Used as a segment counter for repeating segments</li> </ul>
TX	Text Data	String data that may contain leading whitespace characters

### *Composite Data Types*

Composite data type fields are a single data element composed of more than one subfield data element. Composite specify subfield elements are referenced by using concatenating a period to the end of the data type name and following that period with a cardinal number indicating the position of the subfield data element. Each subfield element can in turn be populated by either a primitive or composite data type. For example, the 1<sup>st</sup> subfield of the EIP data type would be commonly described as "EIP.1". To refer to the first sub element of "EIP.1", you would use the notation of "EIP.1.1" .

The following table defines the subset of HL7 datatypes used in this guide to include reference tables when appropriate.

Composite Data Types					
Data Type	Field Name	Composite Field	Composite Field Name	Composite Field Data Type	Table Ref
CE	Coded Element	CE.1	Identifier	ST	<none>
		CE.2	Text	ST	<none>
		CE.3	Name of coding System	ID	0396
		CE.4	Alternate Identifier	ST	<none>
		CE.5	Alternate Text	ST	<none>
		CE.6	Alternate Name of Coding System	ID	0396
CNE	Coded Element with No Exceptions	CNE.1	Identifier	ST	<none>
		CNE.2	Text	ST	<none>
		CNE.3	Name of coding System	ID	0396
		CNE.4	Alternate Identifier	ST	<none>
		CNE.5	Alternate Text	ST	<none>
		CNE.6	Alternate Name of Coding System	ID	0396
		CNE.7	Coding System Version ID	ST	<none>
		CNE.8	Alternate Coding System Version ID	ST	<none>
		CNE.9	Original Text	ST	<none>
CWE	Coded Element with Exceptions	CWE.1	Identifier	ST	<none>
		CWE.2	Text	ST	<none>
		CWE.3	Name of coding System	ID	0396
		CWE.4	Alternate Identifier	ST	<none>
		CWE.5	Alternate Text	ST	<none>
		CWE.6	Alternate Name of Coding System	ID	0396
		CWE.7	Coding System Version ID	ST	<none>
		CWE.8	Alternate Coding System Version ID	ST	<none>
		CWE.9	Original Text	ST	<none>
CX	Extended Composite ID with Check Digit	CX.1	ID Number	ST	<none>
		CX.2	Check digit	ST	<none>
		CX.3	Check Digit Scheme	ID	0061
		CX.4	Assigning Authority	HD	0363
		CX.5	Identifier Type Code	ID	0203
		CX.6	Assigning Facility	HD	<none>
		CX.7	Effective Date	DT	<none>
		CX.8	Expiration Date	DT	<none>
		CX.9	Assigning Jurisdiction	CWE	<none>
		CX.10	Assigning Agency or Department	CWE	<none>
DR	Date/Time Range	DR.1	Range Start Date/Time	DTM	<none>

Composite Data Types					
Data Type	Field Name	Composite Field	Composite Field Name	Composite Field Data Type	Table Ref
		DR.2	Range End Date/Time	DTM	<none>
EI	Entity Identifier	EI.1	Entity Identifier	ST	<none>
		EI.2	Namespace Id	IS	<none>
		EI.3	Universal Id	ST	<none>
		EI.4	Universal Id Type	ID	0301
EIP	Entity Identifier Pair	EIP.1	Placer Assigned Identifier	EI	<none>
		EIP.2	Filler Assigned Identifier	EI	<none>
HD	Hierarchic Designator	HD.1	Namespace ID	IS	<local>
		HD.2	Universal ID	ST	<none>
		HD.3	Universal ID Type	ID	0301
MSG	Message Type	MSG.1	Message Code	ID	0076
		MSG.2	Trigger Event	ID	0003
		MSG.3	Message Structure	ID	0354
PT	Processing Type	PT.1	Processing ID	ID	0103
		PT.2	Processing Mode	ID	0207
SPS	Specimen Source	SPS.1	Specimen Source Name Or Code	CWE	<none>
		SPS.2	Additives	CWE	0371
		SPS.3	Specimen Collection Method	TX	<none>
		SPS.4	Body Site	CWE	0163
		SPS.5	Site Modifier	CWE	0495
		SPS.6	Collection Method Modifier Code	CWE	<none>
		SPS.7	Specimen Role	CWE	0369

COMPOSITE DATA TYPE	FIELD NAME	COMPOSITE FIELD	COMPOSITE FIELD NAME	COMPOSITE FIELD DATA TYPE	TABLE REF
EIP	Entity Identifier Pair	EIP.1	Placer Assigned Identifier	EI	<none>
		EIP.2	Filler Assigned Identifier	EI	<none>
HD	Hierarchic Designator	HD.1	Namespace ID	IS	<local>
		HD.2	Universal ID	ST	<none>
		HD.3	Universal ID Type	ID	0301
MSG	Message Type	MSG.1	Message Code	ID	0076
		MSG.2	Trigger Event	ID	0003
		MSG.3	Message Structure	ID	0354
PT	Processing Type	PT.1	Processing ID	ID	0103
		PT.2	Processing Mode	ID	0207
SPS	Specimen Source	SPS.1	Specimen Source Name Or Code	CWE	<none>
		SPS.2	Additives	CWE	0371
		SPS.3	Specimen Collection Method	TX	<none>
		SPS.4	Body Site	CWE	0163
		SPS.5	Site Modifier	CWE	0495
		SPS.6	Collection Method Modifier Code	CWE	<none>
		SPS.7	Specimen Role	CWE	0369
TS	Time Stamp	TS.1	Time	DTM	<none>
		TS.2	Degree of Precision (Field deprecated in HL7 v 2.3)	ID	0529
VID	Version Identifier	VID.1	Version ID	ID	0104
		VID.2	Internationalization Code	CE	0104
		VID.3	International Version ID	CE	0399

COMPOSITE DATA TYPE	FIELD NAME	COMPOSITE FIELD	COMPOSITE FIELD NAME	COMPOSITE FIELD DATA TYPE	TABLE REF
XAD	Extended Address	XAD.1	Street Address	SAD	<none>
		XAD.2	Other Designation	ST	<none>
		XAD.3	City	ST	<none>
		XAD.4	State	ST	PHVS_State_FIPS_5-2
		XAD.5	Zip or Postal Code	ST	<none>
		XAD.6	Country	ID	PHVS_Country_ISO_3166-1
		XAD.7	Address Type	ID	0190
		XAD.8	Other Geographical Description	ST	<none>
		XAD.9	County/Parish Code	IS	PHVS_County_FIPS_6-4
		XAD.10	Census Tract	IS	0288
		XAD.11	Address Representation Code	ID	0465
		XAD.12	Address Validity Range (Field deprecated in HL7 v2.5. field replaced by XAD.13 and XAD.14)	DR	<none>
		XAD.13	Effective Date	TS	<none>
		XAD.14	Expiration Date	TS	<none>

COMPOSITE DATA TYPE	FIELD NAME	COMPOSITE FIELD	COMPOSITE FIELD NAME	COMPOSITE FIELD DATA TYPE	TABLE REF
XCN	Extended Composite ID Number and Name for Persons	XCN.1	Id Number	ST	<none>
		XCN.2	Family Name	FN	<none>
		XCN.3	Given Name	ST	<none>
		XCN.4	Second And Further Given Names Or Initials	ST	<none>
		XCN.5	Suffix (e.g., Jr Or III)	ST	<none>
		XCN.6	Prefix (e.g., Dr)	ST	<none>
		XCN.7	Degree (e.g., Md)	IS	0360
		XCN.8	Source Table	IS	0297
		XCN.9	Assigning Authority	HD	0363
		XCN.10	Name Type Code	ID	0200
		XCN.11	Identifier Check Digit	ST	<none>
		XCN.12	Check Digit Scheme	ID	0061
		XCN.13	Identifier Type Code	ID	0203
		XCN.14	Assigning Facility	HD	<none>
		XCN.15	Name Representation Code	ID	0465
		XCN.16	Name Context	CE	0448
		XCN.17	Name Validity Range (Field deprecated in HL7 v2.5. Field replaced by XCN.19 and XCN.20)	DR	<none>
		XCN.18	Name Assembly Order	ID	0444
		XCN.19	Effective Date	TS	<none>
		XCN.20	Expiration Date	TS	<none>
		XCN.21	Professional Suffix	ST	<none>
		XCN.22	Assigning Jurisdiction	CWE	<none>
		XCN.23	Assigning Agency Or Department	CWE	<none>



COMPOSITE DATA TYPE	FIELD NAME	COMPOSITE FIELD	COMPOSITE FIELD NAME	COMPOSITE FIELD DATA TYPE	TABLE REF
XON	Extended Composite Name and Identification Number for Organizations	XON.1	Organization Name	ST	<none>
		XON.2	Organization Name Type Code	IS	0204
		XON.3	Id Number (Field deprecated in HL7 v2.5 and replaced with XON.10)	NM	<none>
		XON.4	Check Digit	NM	<none>
		XON.5	Check Digit Scheme	ID	0061
		XON.6	Assigning Authority	HD	0363
		XON.7	Identifier Type Code	ID	0203
		XON.8	Assigning Facility	HD	<none>
		XON.9	Name Representation Code	ID	0456
		XON.10	Organization Identifier	DT	<none>
XPN		XPN.1	Family Name	FN	<none>
		XPN.2	Given Name	ST	<none>
		XPN.3	Second and Further Given Names or Initials Thereof	ST	<none>
		XPN.4	Suffix (e.g., JR or III)	ST	<none>
		XPN.5	Prefix (e.g., DR)	ST	<none>
		XPN.6	Degree (e.g., MD)	IS	0360
		XPN.7	Name Type Code	ID	0200
		XPN.8	Name Representation Code	ID	0465
		XPN.9	Name Context	CWE	0448
		XPN.10	Name Validity Range (Field deprecated as of HL7 v2.5. Field replaced by XPN.12 and XPN.13)	DR	<none>
		XPN.11	Name Assembly Order	ID	0444
		XPN.12	Effective Date	TS	<none>
		XPN.13	Expiration Date	TS	<none>
		XPN.14	Professional Suffix	ST	<none>

COMPOSITE DATA TYPE	FIELD NAME	COMPOSITE FIELD	COMPOSITE FIELD NAME	COMPOSITE FIELD DATA TYPE	TABLE REF
XTN	Extended Telecommunication Number	XTN.1	Telephone number (Field Deprecated as of HL7 v2.3 and replaced with new XTN fields)	ST	<none>
		XTN.2	Telecommunication Use Code	ID	0201
		XTN.3	Telecommunication Equipment Type	ID	0202
		XTN.4	Email Address	ST	<none>
		XTN.5	Country Code	NM	<none>
		XTN.6	Area/City Code	NM	<none>
		XTN.7	Local Number	NM	<none>
		XTN.8	Extension	NM	<none>
		XTN.9	Any Text	ST	<none>
		XTN.10	Extension Prefix	ST	<none>
		XTN.11	Speed Dial Code	ST	<none>
		XTN.12	Unformatted Telephone number	ST	<none>

## Reference Tables

Many fields within an HL7 message have restrictions upon which values may be used to populate them. These restrictions are either managed within standard coding systems and registries, or locally defined. The two registries used in this guide store identifiers:

- (1) Clinical Laboratory Improvement Amendments (CLIA) Identifiers and
- (2) ISO Object Identifiers (OIDs)

Each managed coding system and registry aims to enable interoperability by defining a standardized vocabulary common to all interoperable systems.

### *Clinical Laboratory Improvement Amendments (CLIA) Identifiers*

The Clinical Laboratory Improvements Amendments (1988) are a set of regulatory standards and administrated by the Centers for Medicare and Medicaid Services (CMS). Under these standards laboratories are issued unique identifiers. More information about CLIA may be obtained at <https://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/index.html?redirect=/clia/>.

The centralized registry of CLIA identifiers is available at [https://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/CLIA\\_Laboratory\\_Demographic\\_Information.html](https://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/CLIA_Laboratory_Demographic_Information.html). New Hampshire requires CLIA identifiers when identifying laboratories.

### *Object Identifiers (OIDs)*

The basic concept behind OIDs is to introduce globally unique identifiers for facilities and systems intended to interoperably share information. The International Standards Organization (ISO) committee that developed OIDs decided that there would be no centralized global registry for OIDs, but there would be a hierarchical tree / leaf system where the management of different branches of the tree would be distributed to key stakeholders. Each branch/leaf in an OID is separated by a period. One of the key stakeholders is the Health Level 7 (HL7) Organization; another is the Centers for Disease Control and Prevention (CDC). All OIDs managed by the HL7 begin with 2.16.840.1.113883. HL7 has issued OIDs extending 7 child nodes beyond 2.16.840.1.113883. HL7's parent nodes are explained below:

OID TREE POSITION	OID TREE VALUE	OID TREE DESCRIPTION
1	2	Joint ISO/ITU-T
2	16	Country Assignments
3	840	USA
4	1	US Org
5	113883	HL7

More information can be learned about OIDs through the HL7 website at <http://www.hl7.org/Oid/index.cfm>.

The lack of a centralized OID registry makes it difficult to for laboratories to determine whether an OID has been issued to their laboratory, validate that the OID number inserted into HL7 messages is correct, or for the state to identify who is sending messages when they arrive unexpectedly and the only identifier

available is an OID. It is because of these challenges that the state requires CLIA identifiers be used to identify laboratories.

### General Reference Tables

Within this guide, reference tables published by the HL7 organization shall be identified using a four-digit number where the implied HL7 prefix has been omitted. The HL7 organization is the primary source for all of these tables. These reference tables may be looked up using any number of additional resources. Two representative websites hosting the contents of HL70301 as are illustrated below:

**CDC's PHIN Vocabulary and Distribution System website**

The screenshot shows the VADS website interface. At the top, it says "PHIN Vocabulary Access and Distribution System (VADS)" with a home icon, "Help | Contact Us", and the CDC logo. Below this is a search bar with "Search Home", "Search Results", "RCMT", and "Quick Search" options, along with a "Subscribe" button. The main content area is titled "Code System Information" and displays the following details:

- Code System OID:** 2.16.840.1.113883.12.301
- Code System Name:** Universal ID type (HL7)
- Code System Code:** PH\_UniversalIdType\_HL7\_2x

Below the information box, there are links for "Code System Concepts" and "Code System Details". A message indicates "13 Code System Concepts found" with navigation arrows. The main part of the page is a table with the following columns: Concept Code, Concept Name, Preferred Concept Name, and Code System. Each row includes a "Details" link.

Concept Code	Concept Name	Preferred Concept Name	Code System
ISO	An International Standards Organization Object Identifier	An International Standards Organization Object Identifier	Universal ID type (HL7) <a href="#">Details</a>
DNS	An Internet dotted name. Either in ASCII or as integers	An Internet dotted name. Either in ASCII or as integers	Universal ID type (HL7) <a href="#">Details</a>
x400	An X.400 MHS format identifier	An X.400 MHS format identifier	Universal ID type (HL7) <a href="#">Details</a>
x500	An X.500 directory name	An X.500 directory name	Universal ID type (HL7) <a href="#">Details</a>
CLIA	Clinical Laboratory Improvement Amendments	Clinical Laboratory Improvement Amendments	Universal ID type (HL7) <a href="#">Details</a>
NPI	National Provider Identifier	National Provider Identifier - NPI	Universal ID type (HL7) <a href="#">Details</a>
HL7	Reserved for future HL7 registration schemes	Reserved for future HL7 registration schemes	Universal ID type (HL7) <a href="#">Details</a>
GUID	Same as UUID.	Same as UUID.	Universal ID type (HL7) <a href="#">Details</a>
HCD	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)	Universal ID type (HL7) <a href="#">Details</a>
UUID	The DCE Universal Unique Identifier	The DCE Universal Unique Identifier	Universal ID type (HL7) <a href="#">Details</a>
L,M,N	These are reserved for locally defined coding schemes.	These are reserved for locally defined coding schemes.	Universal ID type (HL7) <a href="#">Details</a>
URI	Uniform Resource Identifier	Uniform Resource Identifier	Universal ID type (HL7) <a href="#">Details</a>
Random	Usually a base64 encoded string of random bits.	Usually a base64 encoded string of random bits.	Universal ID type (HL7) <a href="#">Details</a>

At the bottom right of the page, there is a "Privacy Policy" link.

**SOURCE:** <http://phinvads.cdc.gov/vads/ViewCodeSystem.action?id=2.16.840.1.113883.12.301>

The PHIN VADS website is the primary source for all reference tables prefixed with “PHVS.”

National Institute of Standards and Technology Vocabulary website

**Electronic Laboratory Reporting (ELR)**  
HL7 V2.5.1 Validation Tool - ONC 2014 Edition and 2015 Edition Certification Testing

Home Context-free Validation Context-based Validation Profile Viewer **Vocabulary** Documentation Settings About

**List of Tables**

Table Id	Value Set Name
0123	Result status (HL7)
0125	Value Type (ELR)
0136	Yes No Indicator (HL7)
0155	Accept Application Acknowledgment Conditions (HL7)
0171	Birth Country
0177	Confidentiality Code (HL7)
0189	Ethnic Group (HL7)
0190	Address Type (HL7)
0200	Name Type (HL7)
0201	Telecommunication Use Code (HL7)
0202	Telecommunication Equipment Type (HL7)
0203	Identifier Type
0204	Organizational Name Type (HL7)
0207	Processing Mode (HL7)
0211	Alternate Character Sets (HL7)
0301	Universal ID Type (HL7)
0305	Healthcare Service Location (NHSN)

**Value Set Information**

Table Id: 0396  
Value Set Name: Coding System HL7 2x Table 0396  
Value Set Code: PHVS\_CodingSystem\_HL7\_2x\_Table0396  
Value Set OID: 2.16.840.1.114222.4.11.3338  
Table Type: HL7

CPTM	CPT Modifier Code
CST	COSTART
CVX	CDC Vaccine Codes
DCM	DICOM Controlled Terminology
E	EUCLIDES
E5	Euclides quantity codes
E6	Euclides Lab method codes
E7	Euclides Lab equipment codes
EDLEVEL	Education Level
ENTITYCODE	Entity Code
ENTITYHDLG	Entity Handling Code
ENZC	Enzyme Codes
EPASRS	EPA SRS
FDAUNII	Unique Ingredient Identifier (UNII)
FDDC	First DataBank Drug Codes
FDDX	First DataBank Diagnostic Codes
FDK	FDA K10

Deployment Information Browsers Supported External Links

SOURCE: <http://hl7v2-elr-testing.nist.gov/mu-elr/>

When using third party resources, it is best to cross check the content posted on those sites against other sources. This guide does not identify reference table versions to use, but you should be aware that minor changes are to be expected when different versions/updates to reference tables are used. It is also possible that some web resources have only a partial list of code values associated with a validation table when their implementation constrain the table to a subset of values they will accept.

## Field Separators

All fields are separated by the character defined in field MSH-1. Messages conforming to this guide will always separate fields with a pipe character ( | ). The pipe character is not part of a field. Subfields are marked by the characters defined in MSH-2. The character sequence in MSH-2 delineates the hierarchy of subfields. For example, when MSH-2 contains the value ^~\&# , you would understand top level subfields to be marked with a caret ( ^ ) character. When top level sub fields are populated with composite data elements, the nested data elements will be demarked by the second character to appear in MSH-2 (the tilde character ~ ). When those second layer subfields are themselves composed of composite data types, then the third character ( the back slash character \ ) in MSH-2 would be used to demark subfield components. This same pattern continues for all characters included in MSH-2. Field and subfield delimiters are not counted as field content. Examples of fields and field separators are provided below:

EXAMPLE	FIELD TYPE	EXAMPLE
1	PRIMITIVE DATA TYPE	1
2	COMPOSITE DATA TYPE	10 ELM AVE^^ANYTOWN^NH^039992515
3	COMPOSITE DATA TYPE WITH COMPOSITE DATA TYPE SUBFIELDS	M109899999^^^PI~M109899999^^^PT^GENERAL HOSPITAL

In the first example, the field contains a single value (1).

In the second example, the field is populated with a composite data type containing 5 subfield elements.

FIELD 5	VALUE
Subfield #1	10 ELM AVE
Subfield #2	<empty>
Subfield #3	ANYTOWN
Subfield #4	NH
Subfield #5	039992515

In the third example, field 5 of the composite data type is populated with a composite data type containing two distinct sub-subfield elements (PI~M109899999).

FIELD 5	VALUE		
Sub-field #1	M109899999		
Sub-field #2	<empty>		
Sub-field #3	<empty>		
Sub-field #4	<empty>		
Sub-field #5	PI~M109899999	<b>SUB -SUBFIELD</b>	<b>VALUE</b>
		Field #1	PI
		Field #2	M109899999
Sub-field #7	<empty>		
Sub-field #8	<empty>		
Sub-field #9	PT		
Sub-field #10	GENERAL HOSPITAL		

### Field Notation Convention

Fields within HL7 messages are described using a notation that describes the segment that contains the field and the field placement within the segment. The same leading three characters used to identify the segment are carried forward into the field notation. Next a hyphen is introduced to clearly delineate where the segment name ends. The number that follows the hyphen indicates the field position in the segment. If the field is a composite field, then periods are used to indicate the subfield element position.

FIELD NAME	LOCATION DESCRIPTION
MSH-5	5 <sup>th</sup> field in the MSH segment
OBX-6.1	1 <sup>st</sup> subfield within the 6 <sup>th</sup> field of the OBX segment
PID-5.1.1	1 <sup>st</sup> sub-subfield within the 1 <sup>st</sup> subfield of the 5 <sup>th</sup> field of the PID segment

### Reading a Message

Reading a message is simply reading the segments that compose a message. The below example demonstrates how to read a typical HL7 message segment. Information spread across segments may or may not be independent.

The below examines the ORC segment and explains how you can understand most all electronic data interchange (EDI) structured HL7 messages through a series of 8 steps. Understanding how to read a message is prerequisite to learning how to compose messages.

Step 1: Choose a message segment	Step 2: Lookup segment name from reference guide
<b>ORC</b>      MEMORIAL GENERAL HOSPITAL 9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771 ^603^2714496 9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771	ORC refers to the "Common Order Segment"

Message Content		Reference Guide Information	
Step 3: Identify field	Step 4: Count pipes to identify field position	Step 5: Lookup field name and field data type from reference guide	Step 6: Lookup field data type
<b>NOTE: with the exception of field MSH-1, all fields conforming to this guide will surround field content with pipe characters</b> ORC     MEMORIAL GENERAL HOSPITAL  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013  ^^^^603^2714496  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013 Value: MEMORIAL GENERAL HOSPITAL	ORC-21	Ordering Facility Name	XON
ORC     MEMORIAL GENERAL HOSPITAL  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013  ^^^^603^2714496  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013 Value: 9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771	ORC-22	Ordering Facility Address	XAD
ORC     MEMORIAL GENERAL HOSPITAL  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013  ^^^^603^2714496  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013 Value: ^^^^^603^2714496	ORC-23	Ordering Facility Phone Number	XTN
ORC     MEMORIAL GENERAL HOSPITAL  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013  ^^^^603^2714496  9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013 Value: 9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	ORC-24	Ordering Provider Address	XAD

The next step is to take each composite data type and parse out the subfields. Reference tables should also be identified at this time. Though only some of the composite data types in this example have been parsed, the same process would be repeated to parse out the remaining composite data type values.

Step 7A: Interpret Composite Data Types				
Message Content	Reference Guide Information			
Composite Field	Sub Field	Sub Field Name	Data Type	Reference Table
MEMORIAL GENERAL HOSPITAL	XON.1	Organization Name	ST	<none>
Value: MEMORIAL GENERAL HOSPITAL				
MEMORIAL GENERAL HOSPITAL (value is not shown because the HL7 specification says that you do not need to show empty fields at the end of a segment or empty sub fields at the end of a composite field)	XON.2	Organization Name Type Code	IS	0204
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.3	Id Number	NM	<none>
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.4	Check Digit	NM	<none>
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.5	Check Digit Scheme	ID	0061
Value: <empty>				



Step 7A: Interpret Composite Data Types				
Message Content		Reference Guide Information		
Composite Field	Sub Field	Sub Field Name	Data Type	Reference Table
MEMORIAL GENERAL HOSPITAL	XON.6	Assigning Authority	HD	0363
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.7	Identifier Type Code	ID	0203
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.8	Assigning Facility	HD	<none>
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.9	Name Representation Code	ID	0456
Value: <empty>				
MEMORIAL GENERAL HOSPITAL	XON.10	Organization Identifier	DT	<none>
Value: <empty>				

Step 7B: Interpret Composite Data Types (Continued)				
Message Content		Reference Guide Information		
Composite Field	Sub Field	Composite Field	Data Type	Reference Table
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.1	Street Address	SAD	<none>
Value: 9 MEDICAL CENTER DRIVE				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.2	Other Designation	ST	<none>
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.3	City	ST	<none>
Value: CONCORD				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.4	State	ST	PHVS_State_FIPS_5-2
Value: NH				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.5	Zip or Postal Code	ST	<none>
Value: 03771				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.6	Country	ID	0399
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.7	Address Type	ID	0190
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.8	Other Geographical Description	ST	<none>
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.9	County/Parish Code	IS	PHVS_County_FIPS_6-4
Value: 33013				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.10	Census Tract	IS	0288

Step 7B: Interpret Composite Data Types (Continued)				
Message Content		Reference Guide Information		
Composite Field	Sub Field	Composite Field	Data Type	Reference Table
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.11	Address Representation Code	ID	0465
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.12	Address Validity Range	DR	<none>
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.13	Effective Date	TS	<none>
Value: <empty>				
9 MEDICAL CENTER DRIVE^^CONCORD^NH^03771^^^33013	XAD.14	Expiration Date	TS	<none>
Value: <empty>				

**Step 8: Interpret Coded Values**

By using reference table “PHVS\_County\_FIPS\_6-4” you can decode the value stored in ORC-22.9 (33013). From Step 7B we know that this value is defined within reference table “PHVS\_County\_FIPS\_6-4”. An extract of values from this table is shown below to demonstrate how the county code number can be translated to a county name.

EXTRACTED VALUES FROM REFERENCE TABLE PHVS_County_FIPS_6-4	
Code	Description
33001	Belknap
33003	Carroll
33005	Cheshire
33007	Coos
33009	Grafton
33011	Hillsborough
<b>33013</b>	<b>Merrimack</b>
33015	Rockingham
33017	Strafford
33019	Sullivan

## HL7 Segment Definitions

The next section of this document provides a detailed explanation of all the fields required for reporting electronic laboratory results to the State of New Hampshire, and provides instructions on how to populate each of these fields. An effort has been made to embed common reference table values and provide external resources to help define reference table values whenever possible. This effort has been made to improve the overall usability of this local implementation guide.

**NOTE:** It is common for a specimen collection laboratory to send specimens to another laboratory where results are rendered. In those circumstances the specimen collection facility / ordering facility information will be in fields ORC-21 and ORC-22. The laboratory that generates the test results will have their information in fields OBX-15, OBX-23 and OBX-24.

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

Message Header Segment (MSH)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
Field Separator	R	<none>	MSH-1	ST	Only the following literal value will be accepted: <table border="1" style="width: 100%;"> <tr> <th>Accepted Value</th> </tr> <tr> <td> </td> </tr> </table> <p><b>NOTE:</b> this is a pipe character</p>	Accepted Value	
Accepted Value							
Encoding Characters	R	<none>	MSH-2	ST	Only the following literal value will be accepted: <table border="1" style="width: 100%;"> <tr> <th>Accepted Value</th> </tr> <tr> <td>^~\&amp;</td> </tr> </table> <p><b>NOTE:</b> The “#” character may optionally be used as a fifth encoding character</p>	Accepted Value	^~\&
Accepted Value							
^~\&							
Sending Application	O	<none>	MSH-3	HD	Used for message acknowledgement		
Namespace ID	O	<none>	MSH-3.1	IS	Any free text value will suffice for populating this field		
Universal ID	O	<none>	MSH-3.2	ST	URI, ISO, or CLIA Identifier code value of less than 200 characters		

Message Header Segment (MSH)															
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction										
Universal ID Type	O	0301	MSH-3.3	IS	<p>Only the following codes will be accepted</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CLIA</td> <td>Clinical Laboratory Improvement Amendments</td> </tr> <tr> <td>ISO</td> <td>An International Standards Organization Object Identifier</td> </tr> <tr> <td>URI</td> <td>Uniform Resource Identifier</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Values		Code	Description	CLIA	Clinical Laboratory Improvement Amendments	ISO	An International Standards Organization Object Identifier	URI	Uniform Resource Identifier
Accepted Values															
Code	Description														
CLIA	Clinical Laboratory Improvement Amendments														
ISO	An International Standards Organization Object Identifier														
URI	Uniform Resource Identifier														
<b>Sending Facility</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>MSH-4</b>	<b>HD</b>											
Namespace ID	R	<none>	MSH-4.1	IS	Sending Facility Name										
Universal ID	R	<none>	MSH-4.2	ST	<p>Sending Facility's CLIA Code</p> <p><b>NOTE 1:</b> Every commercial and public laboratory has a Clinical Laboratories Improvement Act (CLIA) identifier to uniquely identify the laboratory. Any messages that contain unrecognized CLIA numbers are automatically rejected by DPHS.</p> <p><b>NOTE 2:</b> <a href="https://www.cms.gov/">https://www.cms.gov/</a> has a CLIA lookup tool to confirm CLIA IDs</p>										
Universal ID Type	R	<none>	MSH-4.3	IS	<p>Only the following code is accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CLIA</td> <td>Clinical Laboratory Improvement Amendments</td> </tr> </tbody> </table>	Accepted Values		Code	Description	CLIA	Clinical Laboratory Improvement Amendments				
Accepted Values															
Code	Description														
CLIA	Clinical Laboratory Improvement Amendments														
<b>Receiving Facility</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>MSH-6</b>	<b>HD</b>											

Message Header Segment (MSH)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Receiving Facility Namespace ID	R	<none>	MSH-6.1	IS	<p>Only the following code value will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Value</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>NH_DHHS</td> <td>New Hampshire Dept. of Health and Human Services</td> </tr> </tbody> </table> <p><b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a></p>	Accepted Value		Code	Description	NH_DHHS	New Hampshire Dept. of Health and Human Services
Accepted Value											
Code	Description										
NH_DHHS	New Hampshire Dept. of Health and Human Services										
Universal ID	R	<none>	MSH-6.2	ST	<p>Only the following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.114222.4.1.3669</td> </tr> </tbody> </table> <p><b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a></p>	Accepted Value	2.16.840.1.114222.4.1.3669				
Accepted Value											
2.16.840.1.114222.4.1.3669											
Universal ID Type	R	<none>	MSH-6.3	ID	<p>Only the following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>ISO</td> </tr> </tbody> </table>	Accepted Value	ISO				
Accepted Value											
ISO											
<b>Date/Time of message</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>MSH-7</b>	<b>TS</b>	<p>Date/time when HL7 message was created</p> <p>The degree of precision must be at least to the minute</p> <p>Format: YYYYMMDDHHMMSS[+/-ZZZZ]</p>						
<b>Message Type</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>MSH-9</b>	<b>MSG</b>	Message type for Observation						
Message Code	R	0076	MSH-9.1	ID	<p>Only the following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>ORU</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70076 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Value	ORU				
Accepted Value											
ORU											

Message Header Segment (MSH)													
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction								
Trigger Event	R	0003 / PHVS_EventType_HL7_2x	MSH-9.2	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>R01</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70003 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_EventType_HL7_2x codes at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	R01						
Accepted Value													
R01													
Message Structure	O	0354 / PHVS_MessageStructure_HL7_2x	MSH-9.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>ORU_R01</td> </tr> </tbody> </table> <p><b>NOTE:</b> List of table HL7 0103 codes is available in the vocabulary posted at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_MessageStructure_HL7_2x codes at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	ORU_R01						
Accepted Value													
ORU_R01													
Message Control ID	R	<none>	MSH-10	ST	Free-text string value used to uniquely identify the message								
Processing ID	R	0103	MSH-11	PT	<p>Only the following codes are accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production</td> </tr> <tr> <td>T</td> <td>Non-Production/Test</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70103 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Values		Code	Description	P	Production	T	Non-Production/Test
Accepted Values													
Code	Description												
P	Production												
T	Non-Production/Test												
Version ID	RE	0104	MSH-12	VID	<p>HL7 message version (e.g. 2.3.1, 2.5.1)</p> <p>HL70104 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>								

Message Header Segment (MSH)																	
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction												
Accept Acknowledgment Type	CE	0155 / PHVS_AcceptApplicationAcknowledgmentConditions_HL7	MSH-15	ID	<p>Field is required when MSH-21 contains "PHLabReport-Ack"</p> <p>Only the following codes will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>Always</td> </tr> <tr> <td>NE</td> <td>Non-Production/Test</td> </tr> <tr> <td>ER</td> <td>Error/reject conditions only</td> </tr> <tr> <td>SU</td> <td>Successful completion only</td> </tr> </tbody> </table> <p>Field may be empty or "NE" in all other cases</p> <p><b>NOTE:</b> HL70155 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Values		Code	Description	AL	Always	NE	Non-Production/Test	ER	Error/reject conditions only	SU	Successful completion only
Accepted Values																	
Code	Description																
AL	Always																
NE	Non-Production/Test																
ER	Error/reject conditions only																
SU	Successful completion only																
Application Acknowledgment Type	R	0155 / PHVS_AcceptApplicationAcknowledgmentConditions_HL7	MSH-16		<p>Field is required when MSH-21 contains "PHLabReport-Ack"</p> <p>Only the following codes are accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>Always</td> </tr> <tr> <td>NE</td> <td>Non-Production/Test</td> </tr> <tr> <td>ER</td> <td>Error/reject conditions only</td> </tr> <tr> <td>SU</td> <td>Successful completion only</td> </tr> </tbody> </table> <p>Field may be empty or "NE" in all other cases</p> <p><b>NOTE:</b> HL70155 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Values		Code	Description	AL	Always	NE	Non-Production/Test	ER	Error/reject conditions only	SU	Successful completion only
Accepted Values																	
Code	Description																
AL	Always																
NE	Non-Production/Test																
ER	Error/reject conditions only																
SU	Successful completion only																
Message Profile Identifier	R	<none>	MSH-21	EI													
Entity Identifier	R	OID List	MSH-21.1	ST	<p>Only the following values are accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> </thead> <tbody> <tr> <td colspan="2">PHLabReport-Ack</td> </tr> <tr> <td colspan="2">PHLabReport-NoAck</td> </tr> <tr> <td colspan="2">PHLabReport-Batch</td> </tr> </tbody> </table>	Accepted Values		PHLabReport-Ack		PHLabReport-NoAck		PHLabReport-Batch					
Accepted Values																	
PHLabReport-Ack																	
PHLabReport-NoAck																	
PHLabReport-Batch																	

Message Header Segment (MSH)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
Universal ID	R	OID List	MSH-21.3	ST	<p>Only the following value is accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.113883.9.11</td> </tr> </tbody> </table> <p><b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a></p>	Accepted Value	2.16.840.1.113883.9.11
Accepted Value							
2.16.840.1.113883.9.11							
Universal ID Type	R	0301 / PH_UniversalId Type_H L7_2x	MSH-21.4	ID	<p>Only the following code is accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>ISO</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Value	ISO
Accepted Value							
ISO							



**MSH Example:**

```
MSH|^~\&#|EHR^2.16.840.1.114222.9.9.9999^ISO
|CENTRAL MEDICAL CENTER CORP^34D0999999^CLIA|
|NH_DHHS^2.16.840.1.114222.4.1.3669^ISO|20150511013000-0005|
|ORU^R01^ORU_R01|20151204031645218050|P|2.5.1|||AL|AL|||
|PHLabReport-Ack^^2.16.840.1.113883.9.11^ISO
```

**MSH Example Parsed:**

MSH Example Parsed																		
Field	Field Name	Value																
MSH-1	Field Separator [ST]																	
MSH-2	Encoding Characters [ST]	^~\&#																
MSH-3	Sending Application [HD]	EHR^2.16.840.1.114222.9.9.9999^ISO																
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-3.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>MSH-3.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.114222.9.9.9999</td> </tr> <tr> <td>MSH-3.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-3.1	Namespace ID [IS]	EHR	MSH-3.2	Universal ID [ST]	2.16.840.1.114222.9.9.9999	MSH-3.3	Universal ID Type [ID]	ISO				
		Field	Field Name	Value														
		MSH-3.1	Namespace ID [IS]	EHR														
MSH-3.2	Universal ID [ST]	2.16.840.1.114222.9.9.9999																
MSH-3.3	Universal ID Type [ID]	ISO																
MSH-4	Sending Facility [HD]	CENTRAL MEDICAL CENTER^34D0999999^CLIA																
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-4.1</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER</td> </tr> <tr> <td>MSH-4.2</td> <td>Universal ID [ST]</td> <td>34D0999999</td> </tr> <tr> <td>MSH-4.3</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-4.1	Namespace ID [IS]	CENTRAL MEDICAL CENTER	MSH-4.2	Universal ID [ST]	34D0999999	MSH-4.3	Universal ID Type [ID]	CLIA				
		Field	Field Name	Value														
		MSH-4.1	Namespace ID [IS]	CENTRAL MEDICAL CENTER														
MSH-4.2	Universal ID [ST]	34D0999999																
MSH-4.3	Universal ID Type [ID]	CLIA																
MSH-6	Receiving Facility [HD]	NH_DHHS^2.16.840.1.114222.4.1.3669^ISO																
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-6.1</td> <td>Namespace ID [IS]</td> <td>NH_DHHS</td> </tr> <tr> <td>MSH-6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.114222.4.1.3669</td> </tr> <tr> <td>MSH-6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-6.1	Namespace ID [IS]	NH_DHHS	MSH-6.2	Universal ID [ST]	2.16.840.1.114222.4.1.3669	MSH-6.3	Universal ID Type [ID]	ISO				
		Field	Field Name	Value														
		MSH-6.1	Namespace ID [IS]	NH_DHHS														
MSH-6.2	Universal ID [ST]	2.16.840.1.114222.4.1.3669																
MSH-6.3	Universal ID Type [ID]	ISO																
MSH-7	Date/Time of message [TS]	20150511013000-0005																
		<table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>11</td> </tr> <tr> <td>Hour</td> <td>01</td> </tr> <tr> <td>Minutes</td> <td>30</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0005</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	11	Hour	01	Minutes	30	Seconds	00	GMT Offset	0005
		Field Name	Value															
		Year	2015															
		Month	05															
		Day	11															
		Hour	01															
		Minutes	30															
Seconds	00																	
GMT Offset	0005																	
MSH-9	Message Type [MSG]	ORU^R01^ORU_R01																
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-9.1</td> <td>Message Code [ID]</td> <td>ORU</td> </tr> <tr> <td>MSH-9.2</td> <td>Trigger Event [ID]</td> <td>R01</td> </tr> <tr> <td>MSH-9.3</td> <td>Message Structure [ID]</td> <td>ORU_R01</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-9.1	Message Code [ID]	ORU	MSH-9.2	Trigger Event [ID]	R01	MSH-9.3	Message Structure [ID]	ORU_R01				
		Field	Field Name	Value														
		MSH-9.1	Message Code [ID]	ORU														
MSH-9.2	Trigger Event [ID]	R01																
MSH-9.3	Message Structure [ID]	ORU_R01																
MSH-10	Message Control ID [ST]	20151204031645218050																

MSH Example Parsed														
Field	Field Name	Value												
MSH-11	Processing ID [PT]	P												
MSH-12	Version ID [VID]	2.5.1												
MSH-15	Accept Acknowledgment Type [ID]	AL												
MSH-16	Application Acknowledgment Type [ID]	AL												
MSH-21	Message Profile Identifier [EI]	PHLabReport-Ack^^2.16.840.1.113883.9.11^ISO												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-21.1</td> <td>Namespace ID [ST]</td> <td>PHLabReport-Ack</td> </tr> <tr> <td>MSH-21.3</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.9.11</td> </tr> <tr> <td>MSH-21.4</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-21.1	Namespace ID [ST]	PHLabReport-Ack	MSH-21.3	Universal ID [ST]	2.16.840.1.113883.9.11	MSH-21.4	Universal ID Type [ID]	ISO
		Field	Field Name	Value										
		MSH-21.1	Namespace ID [ST]	PHLabReport-Ack										
MSH-21.3	Universal ID [ST]	2.16.840.1.113883.9.11												
MSH-21.4	Universal ID Type [ID]	ISO												

### Patient Identifier Segment (PID)

The PID segment is used by all applications as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that, for the most part, is not likely to change frequently.

Patient Identifier Segment (PID)																				
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction															
<b>PID Set Identifier</b>	R	<none>	<b>PID-1</b>	SI	For the first repeat of the PID segment, the sequence number shall be one (1), for the second repeat, the sequence number shall be two (2), etc.															
<b>Patient Identifier List</b>	R	<none>	<b>PID-3</b>	CX																
ID Number / Patient Medical Record ID	R	<none>	PID-3.1	ST	Patient Medical Record Number															
Assigning Authority	R	<none>	PID-3.4	HD																
Namespace ID	R	<none>	PID-3.4.1	IS	Name of system that generates the medical record number															
Universal ID	R	<none>	PID-3.4.2	ST	Code value used to identify the system that generates the medical record number															
Universal ID Type	R	0301	PID-3.4.3	ID	Name of coding system used to populate PID-3.4.2  <b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a>															
Identifier Type Code	R	0203 / PHVS_IdentifierType_CDC	PID-3.5	ID	<b>Partial List of Accepted Values</b>															
					<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AN</td> <td>Account Number</td> </tr> <tr> <td>ANT</td> <td>Temporary Account Number</td> </tr> <tr> <td>HC</td> <td>Health Card Number</td> </tr> <tr> <td>MA</td> <td>Medical Records Number</td> </tr> <tr> <td>MC</td> <td>Patient's Medicare Number</td> </tr> <tr> <td>MR</td> <td>Medical Record Number</td> </tr> <tr> <td>MRT</td> <td>Temporary Medical Record Number</td> </tr> <tr> <td>PN</td> <td>Person number</td> </tr> <tr> <td>SR</td> <td>State registry ID</td> </tr> </tbody> </table>	Code	Description	AN	Account Number	ANT	Temporary Account Number	HC	Health Card Number	MA	Medical Records Number	MC	Patient's Medicare Number	MR	Medical Record Number	MRT
Code	Description																			
AN	Account Number																			
ANT	Temporary Account Number																			
HC	Health Card Number																			
MA	Medical Records Number																			
MC	Patient's Medicare Number																			
MR	Medical Record Number																			
MRT	Temporary Medical Record Number																			
PN	Person number																			
SR	State registry ID																			
<b>NOTE:</b> HL7 0203 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_IdentifierType_CDC codes are available at <a href="http://phinvads.cdc.gov/">http://phinvads.cdc.gov/</a>																				
Assigning Facility	RE	<none>	PID-3.6	HD																
Namespace ID	RE	<none>	PID-3.6.1	IS	Text description for value in field PID-3.6.1															
Universal ID	R	<none>	PID-3.6.2	ST	<b>NOTE:</b> This field stores a valid ISO formatted identifier when PID-3.6.3 value is "ISO"  <b>NOTE:</b> This field stores a valid CLIA identifier when PID-3.6.3 value is "CLIA"															

Patient Identifier Segment (PID)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Universal ID Type	R	0301	PID-3.6.3	ID	<b>Accepted Values</b>	
					<b>Code</b>	<b>Description</b>
					CLIA	Clinical Laboratory Improvements Amendment Identifier
					ISO	An International Standards Organization Object Identifier
					<b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a>	
<b>Patient Alternate Identifier (Medicaid ID)</b>	<b>C</b>	<b>&lt;none&gt;</b>	<b>PID-4</b>	<b>CX</b>	Medicaid ID is required for lead test results when the reporting laboratory possesses the patient's Medicaid ID	
ID Number / Medicaid ID	R	<none>	PID-4.1	ST	Medicaid ID	
Assigning Authority	R	<none>	PID-4.4	HD		
Namespace ID	R	OID List	PID-4.4.1	IS	The following are suggested values to use when populating this field:	
					<b>Suggested Values</b>	
					CMS United States Centers for Medicare & Medicaid Services (CMS)	
					<b>NOTE:</b> This entry conveys the name of the registered entity assigned to the OID in PID-4.4.2	
Universal ID	R	OID List	PID-4.4.2	ST	The following literal value will be accepted:	
					<b>Accepted Value</b>	
					2.16.840.1.113883.3.249	
					<b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a>	
Universal ID Type	R	0301	PID-4.4.3	ID	The following literal value will be accepted:	
					<b>Accepted Value</b>	
					ISO	
					<b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a>	
<b>Patient Name</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>PID-5</b>	<b>XPN</b>	Contains the name of the patient	
Patient Family Name	R	<none>	PID-5.1	FN		
Patient Last Name	R	<none>	PID-5.1.1	ST		
Patient First Name	R	<none>	PID-5.2	ST		
Patient Middle Name	RE	<none>	PID-5.3	ST		

Patient Identifier Segment (PID)																					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																
Patient DOB	C	<none>	PID-7	TS	Contains the patient's date and time of birth. Format: YYYYMMDDHHMM[SS][+/-ZZZZ]  DOB 'required' (R) when reporting lead test results, but 'required or empty' (RE) for all other test results																
Patient Gender	R	0001 / PHVS_AdministrativeSex_HL7_2x	PID-8	IS	<table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Female</td> </tr> <tr> <td>M</td> <td>Male</td> </tr> <tr> <td>O</td> <td>Other</td> </tr> <tr> <td>U</td> <td>Unknown</td> </tr> <tr> <td>A</td> <td>Ambiguous</td> </tr> <tr> <td>N</td> <td>Not applicable</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70001 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_AdministrativeSex_HL7_2x codes at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Values		Code	Description	F	Female	M	Male	O	Other	U	Unknown	A	Ambiguous	N	Not applicable
Accepted Values																					
Code	Description																				
F	Female																				
M	Male																				
O	Other																				
U	Unknown																				
A	Ambiguous																				
N	Not applicable																				
Patient Race	C	<none>	PID-10	CWE	Field is 'required' (R) for lead test reporting, but 'required or empty' (RE) for all other reporting																
Patient Race Code	C	0005 / PHVS_Race_HL7_2x	PID-10.1	ST	Usage is required (R) when reporting lead test results, but required or empty (RE) for all other test results  <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1002-5</td> <td>American Indian or Alaska Native</td> </tr> <tr> <td>2028-9</td> <td>Asian</td> </tr> <tr> <td>2054-5</td> <td>Black or African American</td> </tr> <tr> <td>2076-8</td> <td>Native Hawaiian or Other Pacific Islander</td> </tr> <tr> <td>2106-3</td> <td>White</td> </tr> <tr> <td>2131-1</td> <td>Other Race</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70005 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_Race_HL7_2x codes at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Values		Code	Description	1002-5	American Indian or Alaska Native	2028-9	Asian	2054-5	Black or African American	2076-8	Native Hawaiian or Other Pacific Islander	2106-3	White	2131-1	Other Race
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Patient Race Code Description	C	<none>	PID-10.2	ST	Text description corresponding to code selected for PID-10.1																
Patient Race Code Set Name	C	0396	PID-10.3	ID	Any of the following literal values will be accepted:  <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>HL70005</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	HL70005														
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HL70005																					
Patient Address	RE	<none>	PID-11	XAD																	

Patient Identifier Segment (PID)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Patient Residence Address	RE	<none>	PID-11.1	SAD	
Patient Residence House Number	RE	<none>	PID-11.1.1	ST	
Patient Residence Street Name	RE	<none>	PID-11.1.2	ST	
Patient Residence Apartment Number	RE	<none>	PID-11.1.3	ST	
Patient Residence City / Town	RE	<none>	PID-11.3	ST	

Patient Identifier Segment (PID)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Patient Residence State	RE	PHVS_State_FIPS_5-2	PID-11.4	ST	<b>Accepted US Values</b>	
					<b>Code</b>	<b>Description</b>
					AL	Alabama
					AK	Alaska
					AZ	Arizona
					AR	Arkansas
					CA	California
					CO	Colorado
					CT	Connecticut
					DE	Delaware
					DC	District of Columbia
					FL	Florida
					GA	Georgia
					HI	Hawaii
					ID	Idaho
					IL	Illinois
					IN	Indiana
					IA	Iowa
					KS	Kansas
					KY	Kentucky
					LA	Louisiana
					ME	Maine
					MD	Maryland
					MA	Massachusetts
					MI	Michigan
					MN	Minnesota
					MS	Mississippi
					MO	Missouri
					MT	Montana
					NE	Nebraska
					NV	Nevada
					NH	New Hampshire
					NJ	New Jersey
					NM	New Mexico
					NY	New York
					NC	North Carolina
					ND	North Dakota
					OH	Ohio
					OK	Oklahoma
					OR	Oregon
					PA	Pennsylvania
					PR	Puerto Rico
					RI	Rhode Island
					SC	South Carolina
					SD	South Dakota
					TN	Tennessee
					TX	Texas
UT	Utah					
VT	Vermont					
VA	Virginia					
WA	Washington					
WV	West Virginia					
WI	Wisconsin					
WY	Wyoming					
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Patient Zip Code	RE	<none>	PID-11.5	ST	Format: 99999[-9999] for US Zip or A9A9A9 for Canadian postal codes																																																																		
Patient Residence Country	RE	PHVS_Country_ISO_3166-1 / Country Value Set	PID-11.6	ID	<p>The 31 most common country of origin codes found in NH health data are listed below:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>AUT</td><td>Austria</td></tr> <tr><td>BEL</td><td>Belgium</td></tr> <tr><td>CAN</td><td>Canada</td></tr> <tr><td>CHE</td><td>Switzerland</td></tr> <tr><td>CHN</td><td>China</td></tr> <tr><td>CUB</td><td>Cuba</td></tr> <tr><td>DEU</td><td>Germany</td></tr> <tr><td>DOM</td><td>Dominican Republic</td></tr> <tr><td>FIN</td><td>Finland</td></tr> <tr><td>FRA</td><td>France</td></tr> <tr><td>GBR</td><td>United Kingdom</td></tr> <tr><td>GRC</td><td>Greece</td></tr> <tr><td>HUN</td><td>Hungary</td></tr> <tr><td>IND</td><td>India</td></tr> <tr><td>IRE</td><td>Ireland</td></tr> <tr><td>ITA</td><td>Italy</td></tr> <tr><td>JPN</td><td>Japan</td></tr> <tr><td>LBN</td><td>Lebanon</td></tr> <tr><td>LTU</td><td>Lithuania</td></tr> <tr><td>MEX</td><td>Mexico</td></tr> <tr><td>NLD</td><td>Netherlands</td></tr> <tr><td>NOR</td><td>Norway</td></tr> <tr><td>PHL</td><td>Philippines</td></tr> <tr><td>POL</td><td>Poland</td></tr> <tr><td>PRT</td><td>Portugal</td></tr> <tr><td>ROU</td><td>Romania</td></tr> <tr><td>RUS</td><td>Russia</td></tr> <tr><td>SWE</td><td>Sweden</td></tr> <tr><td>UKR</td><td>Ukraine</td></tr> <tr><td>USA</td><td>United States of America</td></tr> <tr><td>VNM</td><td>Vietnam</td></tr> </tbody> </table> <p><b>NOTE:</b> PHVS_Country_ISO_3166-1 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and Country Value Set codes at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	AUT	Austria	BEL	Belgium	CAN	Canada	CHE	Switzerland	CHN	China	CUB	Cuba	DEU	Germany	DOM	Dominican Republic	FIN	Finland	FRA	France	GBR	United Kingdom	GRC	Greece	HUN	Hungary	IND	India	IRE	Ireland	ITA	Italy	JPN	Japan	LBN	Lebanon	LTU	Lithuania	MEX	Mexico	NLD	Netherlands	NOR	Norway	PHL	Philippines	POL	Poland	PRT	Portugal	ROU	Romania	RUS	Russia	SWE	Sweden	UKR	Ukraine	USA	United States of America	VNM	Vietnam
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<b>Patient Home Phone</b>	<b>C</b>	<none>	<b>PID-13</b>	<b>XTN</b>	Field is 'required' (R) for lead test reporting, but 'required or empty' (RE) for all other reporting																								
Area Code	R		PID-13.6	NM																									
Local Number	R		PID-13.7	NM																									
Extension	RE		PID-13.8	NM																									
<b>Patient Ethnicity</b>	<b>C</b>	<none>	<b>PID-22</b>	<b>CWE</b>	Field is 'required' (R) for lead test reporting, but 'required or empty' (RE) for all other reporting																								
Patient Ethnic Group Identifier	RE	0189 / PHVS_EthnicityGroup_CDC	PID-22.1	ST	<table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2135-2</td> <td>Hispanic or Latino</td> </tr> <tr> <td>2186-5</td> <td>Not Hispanic or Latino</td> </tr> <tr> <td>UNK</td> <td>Unknown</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete listing HL70189 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a>. The complete list of PHVS_EthnicityGroup_CDC codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Values		Code	Description	2135-2	Hispanic or Latino	2186-5	Not Hispanic or Latino	UNK	Unknown														
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Name of Ethnic Group Coding System	RE	0396	PID-22.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>CDCREC</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	CDCREC																						
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PID Example Parsed																							
Field	Field Name	Value																					
PID-4	Patient Alternate Identifier (Medicaid ID) [CX]	8888888888888888^^^CMS~2.16.840.1.113883.3.249~ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-4.1</td> <td>ID Number / Medicaid ID [ST]</td> <td>88888888888888</td> </tr> <tr> <td>PID-4.4</td> <td>Assigning Authority [HD]</td> <td>           CMS~2.16.840.1.113883.3.249~ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-4.1.1</td> <td>Namespace ID [ST]</td> <td>CMS</td> </tr> <tr> <td>PID-4.1.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.3.249</td> </tr> <tr> <td>PID-4.1.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	PID-4.1	ID Number / Medicaid ID [ST]	88888888888888	PID-4.4	Assigning Authority [HD]	CMS~2.16.840.1.113883.3.249~ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-4.1.1</td> <td>Namespace ID [ST]</td> <td>CMS</td> </tr> <tr> <td>PID-4.1.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.3.249</td> </tr> <tr> <td>PID-4.1.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-4.1.1	Namespace ID [ST]	CMS	PID-4.1.2	Universal ID [ST]	2.16.840.1.113883.3.249	PID-4.1.3	Universal ID Type [ID]	ISO
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PID-5	Patient Name [XPN]	PUBLIC^JOHN^Q <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1</td> <td>Patient Family Name [FN]</td> <td>           PUBLIC  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1.1</td> <td>Surname [ST]</td> <td>PUBLIC</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-5.2</td> <td>Patient First Name [ST]</td> <td>JOHN</td> </tr> <tr> <td>PID-5.3</td> <td>Patient Middle Name [ST]</td> <td>Q</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-5.1	Patient Family Name [FN]	PUBLIC <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1.1</td> <td>Surname [ST]</td> <td>PUBLIC</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-5.1.1	Surname [ST]	PUBLIC	PID-5.2	Patient First Name [ST]	JOHN	PID-5.3	Patient Middle Name [ST]	Q			
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PID-7	Patient DOB [TS]	19900122 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>1990</td> </tr> <tr> <td>Month</td> <td>01</td> </tr> <tr> <td>Day</td> <td>22</td> </tr> </tbody> </table>	Field Name	Value	Year	1990	Month	01	Day	22													
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PID-11.9	County / Parish Code [IS]	33001																														
PID-13	Patient Home Phone [XTN]	^^^^^603^5551213 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-13.6</td> <td>Area Code [NM]</td> <td>603</td> </tr> <tr> <td>PID-13.7</td> <td>Local Number [NM]</td> <td>5551213</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-13.6	Area Code [NM]	603	PID-13.7	Local Number [NM]	5551213																					
Field	Field Name	Value																														
PID-13.6	Area Code [NM]	603																														
PID-13.7	Local Number [NM]	5551213																														
PID-22	Patient Ethnic Group [CWE]	2135-2^HISPANIC OR LATINO^CDCREC <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-22.1</td> <td>Group Identifier [ST]</td> <td>2135-2</td> </tr> <tr> <td>PID-22.2</td> <td>Ethnic Group Description [ST]</td> <td>HISPANIC OR LATINO</td> </tr> <tr> <td>PID-22.3</td> <td>Name of Ethnic Group Coding System [ID]</td> <td>CDCREC</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-22.1	Group Identifier [ST]	2135-2	PID-22.2	Ethnic Group Description [ST]	HISPANIC OR LATINO	PID-22.3	Name of Ethnic Group Coding System [ID]	CDCREC																		
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**Next of Kin / Associated Parties Segment (NK1)**

NK1 Segments are required when submitting blood lead test results.

<b>Next of Kin / Associated Parties Segment (NK1)</b>					
<b>Data Field</b>	<b>Usage</b>	<b>Table Ref</b>	<b>HL7 Field</b>	<b>Data Type</b>	<b>Instruction</b>
<b>PID Set Identifier</b>	<b>R</b>	<none>	<b>NK1-1</b>	<b>SI</b>	For the first repeat of the NK1 segment, the sequence number shall be one (1), for the second repeat, the sequence number shall be two (2), etc.
<b>Name</b>	<b>C</b>	<none>	<b>NK1-2</b>	<b>XPN</b>	
Parent / Guardian Last Name		<none>	NK1-2.1	FN	Required with blood lead test results when patient is less than 16 years of age at the time the specimen is collected
Surname	C	<none>	NK1-2.1.1	ST	
Parent / Guardian First Name	<b>C</b>	<none>	NK1-2.2	ST	
<b>Relationship</b>	<b>C</b>		<b>NK1-3</b>	CE	

Next of Kin / Associated Parties Segment (NK1)																																																																									
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																																																																				
Relationship Code	C	0063 / PHVS_Relations hip_HL7_2x	NK1-3.1	ST	<table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>SEL</td><td>Self</td></tr> <tr><td>SPO</td><td>Spouse</td></tr> <tr><td>DOM</td><td>Life partner</td></tr> <tr><td>CHD</td><td>Child</td></tr> <tr><td>GCH</td><td>Grandchild</td></tr> <tr><td>NCH</td><td>Natural child</td></tr> <tr><td>SCH</td><td>Stepchild</td></tr> <tr><td>FCH</td><td>Foster child</td></tr> <tr><td>DEP</td><td>Handicapped dependent</td></tr> <tr><td>WRD</td><td>Ward of court</td></tr> <tr><td>PAR</td><td>Parent</td></tr> <tr><td>MTH</td><td>Mother</td></tr> <tr><td>FTH</td><td>Father</td></tr> <tr><td>CGV</td><td>Care giver</td></tr> <tr><td>GRD</td><td>Guardian</td></tr> <tr><td>GRP</td><td>Grandparent</td></tr> <tr><td>EXF</td><td>Extended family</td></tr> <tr><td>SIB</td><td>Sibling</td></tr> <tr><td>BRO</td><td>Brother</td></tr> <tr><td>SIS</td><td>Sister</td></tr> <tr><td>FND</td><td>Friend</td></tr> <tr><td>OAD</td><td>Other adult</td></tr> <tr><td>EME</td><td>Employee</td></tr> <tr><td>EMR</td><td>Employer</td></tr> <tr><td>ASC</td><td>Associate</td></tr> <tr><td>EMC</td><td>Emergency contact</td></tr> <tr><td>OWN</td><td>Owner</td></tr> <tr><td>TRA</td><td>Trainer</td></tr> <tr><td>MGR</td><td>Manager</td></tr> <tr><td>NON</td><td>None</td></tr> <tr><td>UNK</td><td>Unknown</td></tr> <tr><td>OTH</td><td>Other</td></tr> </tbody> </table>	Accepted Values		Code	Description	SEL	Self	SPO	Spouse	DOM	Life partner	CHD	Child	GCH	Grandchild	NCH	Natural child	SCH	Stepchild	FCH	Foster child	DEP	Handicapped dependent	WRD	Ward of court	PAR	Parent	MTH	Mother	FTH	Father	CGV	Care giver	GRD	Guardian	GRP	Grandparent	EXF	Extended family	SIB	Sibling	BRO	Brother	SIS	Sister	FND	Friend	OAD	Other adult	EME	Employee	EMR	Employer	ASC	Associate	EMC	Emergency contact	OWN	Owner	TRA	Trainer	MGR	Manager	NON	None	UNK	Unknown	OTH	Other
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					GRD	Guardian																																																																			
					GRP	Grandparent																																																																			
					EXF	Extended family																																																																			
					SIB	Sibling																																																																			
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					EMR	Employer																																																																			
ASC	Associate																																																																								
EMC	Emergency contact																																																																								
OWN	Owner																																																																								
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MGR	Manager																																																																								
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OTH	Other																																																																								
<p><b>NOTE:</b> HL70063 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>																																																																									
Relationship Description	C	<none>	NK1-3.2	ST	Text description associated with value selected for NK1-3.1																																																																				
Coding System	C	0396	NK1-3.3	ID	Any of the following literal values will be accepted:																																																																				
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<p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>																																																																									

**NK1 Example:**

NK1 | 1 | PUBLIC^JOHN^Q | FTH^Father^HL70063

**Parsed NK1 Example:**

Field	Field Name	Value												
NK1-1	NK1 Set Identifier [SI]	1												
NK1-2	Name [XPN]	PUBLIC^JOHN^Q												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>NK1-2.1</td> <td>Patient Family Name [FN]</td> <td>PUBLIC</td> </tr> <tr> <td>NK1-2.1.1</td> <td>Surname [ST]</td> <td>PUBLIC</td> </tr> </tbody> </table>	Field	Field Name	Value	NK1-2.1	Patient Family Name [FN]	PUBLIC	NK1-2.1.1	Surname [ST]	PUBLIC			
		Field	Field Name	Value										
		NK1-2.1	Patient Family Name [FN]	PUBLIC										
NK1-2.1.1	Surname [ST]	PUBLIC												
NK1-2.2	Patient First Name [ST]	JOHN												
NK1-2.3	Patient Middle Name [ST]	Q												
NK1-3	Identifier [CWE]	FTH^Father^HL70063												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>NK1-3.1</td> <td>Relationship Code [ST]</td> <td>FTH</td> </tr> <tr> <td>NK1-3.2</td> <td>Relationship Description [ST]</td> <td>Father</td> </tr> <tr> <td>NK1-3.3</td> <td>Coding System [ID]</td> <td>HL70063</td> </tr> </tbody> </table>	Field	Field Name	Value	NK1-3.1	Relationship Code [ST]	FTH	NK1-3.2	Relationship Description [ST]	Father	NK1-3.3	Coding System [ID]	HL70063
		Field	Field Name	Value										
		NK1-3.1	Relationship Code [ST]	FTH										
NK1-3.2	Relationship Description [ST]	Father												
NK1-3.3	Coding System [ID]	HL70063												
NK1-3.1	Relationship Code [ST]	FTH												
NK1-3.2	Relationship Description [ST]	Father												
NK1-3.3	Coding System [ID]	HL70063												

### Order Common Segment (ORC)

The Common Order segment (ORC) is used to transmit fields that are common to all laboratory orders and service requests.

Order Common Segment (ORC)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
<b>Order Control</b>	R	0119 / PHVS_OrderControlCodes_HL7_2x	ORC-1	ID	<p>The following code will be accepted:</p> <table border="1" style="width: 100%;"> <tr> <th style="background-color: #cccccc;">Accepted Value</th> </tr> <tr> <td>RE</td> </tr> </table> <p><b>NOTE:</b> List of HL70119 / PHVS_OrderControlCodes_HL7_2x codes is available at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Value	RE
Accepted Value							
RE							
<b>Filler Order Number</b>	R	<none>	ORC-3	EI			
Entity Identifier	R	<none>	ORC-3.1	ST	Must contain the same value as OBR-3.1 and SPM-2.1		
Namespace ID	R	<none>	ORC-3.2	IS			
Universal ID	R	<none>	ORC-3.3	ST	<p>The following suggested value will be accepted:</p> <table border="1" style="width: 100%;"> <tr> <th style="background-color: #cccccc;">Accepted Value</th> </tr> <tr> <td>L,M,N</td> </tr> </table>	Accepted Value	L,M,N
Accepted Value							
L,M,N							
Universal ID Type	R	0301	ORC-3.4	ID	<p>The following literal value will be accepted:</p> <table border="1" style="width: 100%;"> <tr> <th style="background-color: #cccccc;">Accepted Value</th> </tr> <tr> <td>ISO</td> </tr> </table> <p><b>NOTE:</b> HL70301 codes are available at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Value	ISO
Accepted Value							
ISO							
<b>Ordering Provider</b>	R		<b>ORC -12</b>	<b>XCN</b>	<b>NOTE:</b> ORC-12 shall contain the exact the same as the value as contained in field OBR-16.		
Ordering Provider Family Name	R	<none>	ORC -12.2	FN			
Ordering Provider Last Name	R	<none>	ORC-12.2.1	ST			
Ordering Provider First Name	R	<none>	ORC -12.3	ST			
Ordering Provider Middle Name	RE	<none>	ORC -12.4	ST			



Order Common Segment (ORC)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Ordering Provider Suffix	RE	<none>	ORC -12.5	ST	Examples would be "Jr", "Sr", "III"
Ordering Provider Prefix	RE	<none>	ORC -12.6	ST	Example would be "Dr"

Order Common Segment (ORC)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Ordering Provider Degree	RE	0360 / PH_DegreeLicenseCertificate_HL7_2x	ORC -12.7	IS	<b>Accepted Values</b>	
					<b>Code</b>	<b>Description</b>
					PN	Adv. Practice Nurse
					AAS	Ass. Applied Science
					AA	Ass. of Arts
					ABA	Ass. of Business Admin.
					AE	Ass. of Engineering
					AS	Ass. of Science
					BA	Bachelor of Arts
					BBA	BA Business Admin.
					BE	BA Engineering
					BFA	BA Fine Arts
					BN	BA of Nursing
					BS	BA of Science
					BSL	BA of Science - Law
					BSN	BA on Science - Nursing
					BT	BA of Theology
					CER	Certificate
					CANP	Certified Adult Nurse Practitioner
					CMA	Certified Medical Assistant
					CNP	Certified Nurse Practitioner
					CNM	Certified Nurse Midwife
					CRN	Certified Registered Nurse
					CNS	Certified Nurse Specialist
					CPNP	Certified Pediatric Nurse Practitioner
					DIP	Diploma
					DBA	Doctor of Business Administration
					DED	Doctor of Education
					PharmD	Doctor of Pharmacy
					PHE	Doctor of Engineering
					PHD	Doctor of Philosophy
					PHS	Doctor of Science
					MD	Doctor of Medicine
DO	Doctor of Osteopathy					
					<p><b>NOTE:</b> HL70360 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PH_DegreeLicenseCertificate_HL7_2x codes at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	
<b>Call Back Phone Number</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>ORC-14</b>	<b>XTN</b>	Shall contain the same value as field OBR-17	

Order Common Segment (ORC)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Area Code	R	<none>	ORC-14.6	NM	
Local Phone Number	R	<none>	ORC-14.7	NM	
Extension	RE	<none>	ORC-14.8	NM	
<b>Ordering Facility</b>	<b>C</b>	<b>&lt;none&gt;</b>	<b>ORC-21</b>	<b>XON</b>	Field is required (R) for lead test results reporting. Otherwise the field is 'required or empty' (RE)  <b>NOTE:</b> Field often contains the specimen collection facility name
Ordering Facility Name	C	<none>	ORC-21.1	ST	Field is required (R) for lead test results reporting. Otherwise the field is 'required or empty' (RE)
<b>Ordering Facility Address</b>	<b>C</b>	<b>&lt;none&gt;</b>	<b>ORC-22</b>	<b>XAD</b>	Field is required (R) for lead test results reporting. Otherwise the field is 'required or empty' (RE)
Ordering Facility Street Address	RE	<none>	ORC-22.1	ST	
Ordering Facility House Number	RE	<none>	ORC-22.1.1	ST	
Ordering Facility Street Name	RE	<none>	ORC-22.1.2	ST	
Ordering Facility Apartment / Suite / Unit Number	RE	<none>	ORC-22.1.3	ST	
Ordering Facility Town	RE	<none>	ORC-22.3	ST	

Order Common Segment (ORC)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Ordering Facility State	RE	PHVS_State_FIPS_5-2	ORC-22.4	ST	<b>Accepted US Values</b>	
					<b>Code</b>	<b>Description</b>
					AL	Alabama
					AK	Alaska
					AZ	Arizona
					AR	Arkansas
					CA	California
					CO	Colorado
					CT	Connecticut
					DE	Delaware
					DC	District of Columbia
					FL	Florida
					GA	Georgia
					HI	Hawaii
					ID	Idaho
					IL	Illinois
					IN	Indiana
					IA	Iowa
					KS	Kansas
					KY	Kentucky
					LA	Louisiana
					ME	Maine
					MD	Maryland
					MA	Massachusetts
					MI	Michigan
					MN	Minnesota
					MS	Mississippi
					MO	Missouri
					MT	Montana
					NE	Nebraska
					NV	Nevada
					NH	New Hampshire
					NJ	New Jersey
					NM	New Mexico
					NY	New York
					NC	North Carolina
					ND	North Dakota
					OH	Ohio
					OK	Oklahoma
					OR	Oregon
					PA	Pennsylvania
					PR	Puerto Rico
					RI	Rhode Island
					SC	South Carolina
					SD	South Dakota
					TN	Tennessee
					TX	Texas
UT	Utah					
VT	Vermont					
VA	Virginia					
WA	Washington					
WV	West Virginia					
WI	Wisconsin					
WY	Wyoming					
					<b>NOTE:</b> PHVS_State_FIPS_5-2 codes at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a>	

Order Common Segment (ORC)																																																																							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																																																																		
Ordering Facility Zip Code	RE	<none>	ORC-22.5	ST	Format: 99999[-9999] for US Zip or ZIP +4 codes or as A9A9A9 for Canadian postal codes																																																																		
Ordering Facility Country	RE	PHVS_Country_ISO_3166-1	ORC-22.6	ID	<p>The 31 most common country of origin codes found in NH health data are listed below:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>AUT</td><td>Austria</td></tr> <tr><td>BEL</td><td>Belgium</td></tr> <tr><td>CAN</td><td>Canada</td></tr> <tr><td>CHE</td><td>Switzerland</td></tr> <tr><td>CHN</td><td>China</td></tr> <tr><td>CUB</td><td>Cuba</td></tr> <tr><td>DEU</td><td>Germany</td></tr> <tr><td>DOM</td><td>Dominican Republic</td></tr> <tr><td>FIN</td><td>Finland</td></tr> <tr><td>FRA</td><td>France</td></tr> <tr><td>GBR</td><td>United Kingdom</td></tr> <tr><td>GRC</td><td>Greece</td></tr> <tr><td>HUN</td><td>Hungary</td></tr> <tr><td>IND</td><td>India</td></tr> <tr><td>IRE</td><td>Ireland</td></tr> <tr><td>ITA</td><td>Italy</td></tr> <tr><td>JPN</td><td>Japan</td></tr> <tr><td>LBN</td><td>Lebanon</td></tr> <tr><td>LTU</td><td>Lithuania</td></tr> <tr><td>MEX</td><td>Mexico</td></tr> <tr><td>NLD</td><td>Netherlands</td></tr> <tr><td>NOR</td><td>Norway</td></tr> <tr><td>PHL</td><td>Philippines</td></tr> <tr><td>POL</td><td>Poland</td></tr> <tr><td>PRT</td><td>Portugal</td></tr> <tr><td>ROU</td><td>Romania</td></tr> <tr><td>RUS</td><td>Russia</td></tr> <tr><td>SWE</td><td>Sweden</td></tr> <tr><td>UKR</td><td>Ukraine</td></tr> <tr><td>USA</td><td>United States of America</td></tr> <tr><td>VNM</td><td>Vietnam</td></tr> </tbody> </table> <p><b>NOTE:</b> PHVS_Country_ISO_3166-1 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and Country Value Set codes at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	AUT	Austria	BEL	Belgium	CAN	Canada	CHE	Switzerland	CHN	China	CUB	Cuba	DEU	Germany	DOM	Dominican Republic	FIN	Finland	FRA	France	GBR	United Kingdom	GRC	Greece	HUN	Hungary	IND	India	IRE	Ireland	ITA	Italy	JPN	Japan	LBN	Lebanon	LTU	Lithuania	MEX	Mexico	NLD	Netherlands	NOR	Norway	PHL	Philippines	POL	Poland	PRT	Portugal	ROU	Romania	RUS	Russia	SWE	Sweden	UKR	Ukraine	USA	United States of America	VNM	Vietnam
Partial List of Accepted Values																																																																							
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JPN	Japan																																																																						
LBN	Lebanon																																																																						
LTU	Lithuania																																																																						
MEX	Mexico																																																																						
NLD	Netherlands																																																																						
NOR	Norway																																																																						
PHL	Philippines																																																																						
POL	Poland																																																																						
PRT	Portugal																																																																						
ROU	Romania																																																																						
RUS	Russia																																																																						
SWE	Sweden																																																																						
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County / Parish Code	O	PHVS_C ounty_F IPS_6-4	ORC-22.9	IS	<p>The subset of New Hampshire PHVS_County_FIPS_6-4 county codes appears below:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>33001</td> <td>Belknap (NH)</td> </tr> <tr> <td>33003</td> <td>Carroll (NH)</td> </tr> <tr> <td>33005</td> <td>Cheshire (NH)</td> </tr> <tr> <td>33007</td> <td>Coos (NH)</td> </tr> <tr> <td>33009</td> <td>Grafton (NH)</td> </tr> <tr> <td>33011</td> <td>Hillsborough (NH)</td> </tr> <tr> <td>33013</td> <td>Merrimack (NH)</td> </tr> <tr> <td>33015</td> <td>Rockingham (NH)</td> </tr> <tr> <td>33017</td> <td>Strafford (NH)</td> </tr> <tr> <td>33019</td> <td>Sullivan (NH)</td> </tr> </tbody> </table> <p><b>NOTE:</b> PHVS_County_FIPS_6-4 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	33001	Belknap (NH)	33003	Carroll (NH)	33005	Cheshire (NH)	33007	Coos (NH)	33009	Grafton (NH)	33011	Hillsborough (NH)	33013	Merrimack (NH)	33015	Rockingham (NH)	33017	Strafford (NH)	33019	Sullivan (NH)
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<b>Ordering Facility Phone Number</b>	<b>C</b>	<none>	<b>ORC-23</b>	<b>XTN</b>	Field is required for lead test reporting																								
Area Code	R	<none>	ORC-23.6	NM																									
Local Telephone Number	R	<none>	ORC-23.7	NM																									
Extension	RE	<none>	ORC-23.8	NM																									
<b>Ordering Provider Address</b>	<b>C</b>	<none>	<b>ORC-24</b>	<b>XAD</b>	Field is 'required' (R) for lead test reporting, otherwise field is 'required or empty' (RE)																								
Ordering Provider Street Address	RE	<none>	ORC-24.1	SAD																									
House Number	RE	<none>	ORC-24.1.1	ST																									
Street Name	RE	<none>	ORC-24.1.2	ST																									
Apartment / Suite / Unit Number	RE	<none>	ORC-24.1.3	ST																									
Ordering Provider City / Town	RE	<none>	ORC-24.3	ST																									

**Order Common Segment (ORC)**

Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Ordering Provider State	RE	PHVS_State_FIP_S_5-2	ORC-24.4	ST	<b>Accepted US Values</b>	
					<b>Code</b>	<b>Description</b>
					AL	Alabama
					AK	Alaska
					AZ	Arizona
					AR	Arkansas
					CA	California
					CO	Colorado
					CT	Connecticut
					DE	Delaware
					DC	District of Columbia
					FL	Florida
					GA	Georgia
					HI	Hawaii
					ID	Idaho
					IL	Illinois
					IN	Indiana
					IA	Iowa
					KS	Kansas
					KY	Kentucky
					LA	Louisiana
					ME	Maine
					MD	Maryland
					MA	Massachusetts
					MI	Michigan
					MN	Minnesota
					MS	Mississippi
					MO	Missouri
					MT	Montana
					NE	Nebraska
					NV	Nevada
					NH	New Hampshire
					NJ	New Jersey
					NM	New Mexico
					NY	New York
					NC	North Carolina
					ND	North Dakota
					OH	Ohio
					OK	Oklahoma
					OR	Oregon
					PA	Pennsylvania
					PR	Puerto Rico
					RI	Rhode Island
					SC	South Carolina
					SD	South Dakota
					TN	Tennessee
					TX	Texas
UT	Utah					
VT	Vermont					
VA	Virginia					
WA	Washington					
WV	West Virginia					
WI	Wisconsin					
WY	Wyoming					
					<b>NOTE:</b> Complete list available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a>	

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Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																																																																		
Ordering Provider Zip Code	RE	<none>	ORC-24.5	ST	Format: 99999[-9999] for US Zip or A9A9A9 for Canadian postal codes																																																																		
Ordering Provider Country	RE	PHVS_Country_ISO_3166-1 / Country Value Set	ORC-24.6	ID	<p>The 31 most common country of origin codes found in NH health data are listed below:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>AUT</td><td>Austria</td></tr> <tr><td>BEL</td><td>Belgium</td></tr> <tr><td>CAN</td><td>Canada</td></tr> <tr><td>CHE</td><td>Switzerland</td></tr> <tr><td>CHN</td><td>China</td></tr> <tr><td>CUB</td><td>Cuba</td></tr> <tr><td>DEU</td><td>Germany</td></tr> <tr><td>DOM</td><td>Dominican Republic</td></tr> <tr><td>FIN</td><td>Finland</td></tr> <tr><td>FRA</td><td>France</td></tr> <tr><td>GBR</td><td>United Kingdom</td></tr> <tr><td>GRC</td><td>Greece</td></tr> <tr><td>HUN</td><td>Hungary</td></tr> <tr><td>IND</td><td>India</td></tr> <tr><td>IRE</td><td>Ireland</td></tr> <tr><td>ITA</td><td>Italy</td></tr> <tr><td>JPN</td><td>Japan</td></tr> <tr><td>LBN</td><td>Lebanon</td></tr> <tr><td>LTU</td><td>Lithuania</td></tr> <tr><td>MEX</td><td>Mexico</td></tr> <tr><td>NLD</td><td>Netherlands</td></tr> <tr><td>NOR</td><td>Norway</td></tr> <tr><td>PHL</td><td>Philippines</td></tr> <tr><td>POL</td><td>Poland</td></tr> <tr><td>PRT</td><td>Portugal</td></tr> <tr><td>ROU</td><td>Romania</td></tr> <tr><td>RUS</td><td>Russia</td></tr> <tr><td>SWE</td><td>Sweden</td></tr> <tr><td>UKR</td><td>Ukraine</td></tr> <tr><td>USA</td><td>United States of America</td></tr> <tr><td>VNM</td><td>Vietnam</td></tr> </tbody> </table> <p><b>NOTE:</b> The complete list of PHVS_Country_ISO_3166-1 codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p> <p><b>NOTE:</b> The Country Value Set table is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	AUT	Austria	BEL	Belgium	CAN	Canada	CHE	Switzerland	CHN	China	CUB	Cuba	DEU	Germany	DOM	Dominican Republic	FIN	Finland	FRA	France	GBR	United Kingdom	GRC	Greece	HUN	Hungary	IND	India	IRE	Ireland	ITA	Italy	JPN	Japan	LBN	Lebanon	LTU	Lithuania	MEX	Mexico	NLD	Netherlands	NOR	Norway	PHL	Philippines	POL	Poland	PRT	Portugal	ROU	Romania	RUS	Russia	SWE	Sweden	UKR	Ukraine	USA	United States of America	VNM	Vietnam
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IRE	Ireland																																																																						
ITA	Italy																																																																						
JPN	Japan																																																																						
LBN	Lebanon																																																																						
LTU	Lithuania																																																																						
MEX	Mexico																																																																						
NLD	Netherlands																																																																						
NOR	Norway																																																																						
PHL	Philippines																																																																						
POL	Poland																																																																						
PRT	Portugal																																																																						
ROU	Romania																																																																						
RUS	Russia																																																																						
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UKR	Ukraine																																																																						
USA	United States of America																																																																						
VNM	Vietnam																																																																						



**ORC Example:**

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ORC|RE||6810031234^EHR_Name^EHR_ID_Code^L,M,N|||||
|^PROVIDER^JOHN^Q^JR^DR^MD|^603^5551213^23|||||GENERAL HOSPITAL
|10&ELM AVE&SUITE 37^^ANYTOWN^NH^03999-2515^USA
|^603^5559999^5574|10&ELM AVE&SUITE 34^^ANYTOWN^NH^03999-2515^USA
    
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**Parsed ORC Example:**

Parsed ORC Example																													
Field	Field Name	Value																											
ORC-1	Order Control [ID]	RE																											
ORC-3	Placer Order Number [EI]	6810031234^^EHR_ID_Code^L,M,N <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-3.1</td> <td>Entity Identifier</td> <td>6810031234</td> </tr> <tr> <td>ORC-3.2</td> <td>Namespace ID</td> <td>EHR_Name</td> </tr> <tr> <td>ORC-3.3</td> <td>Universal ID</td> <td>EHR_ID_Code</td> </tr> <tr> <td>ORC-3.4</td> <td>Universal ID Type</td> <td>L,M,N</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-3.1	Entity Identifier	6810031234	ORC-3.2	Namespace ID	EHR_Name	ORC-3.3	Universal ID	EHR_ID_Code	ORC-3.4	Universal ID Type	L,M,N												
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ORC-12	Ordering Provider [XCN]	^PROVIDER^JOHN^Q^JR^DR^MD <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-12.2</td> <td>Ordering Provider Last Name</td> <td>                             PROVIDER  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-12.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table> </td> </tr> <tr> <td>ORC-12.3</td> <td>Ordering Provider First Name</td> <td>JOHN</td> </tr> <tr> <td>ORC-12.4</td> <td>Ordering Provider Middle Name</td> <td>Q</td> </tr> <tr> <td>ORC-12.5</td> <td>Ordering Provider Suffix</td> <td>JR</td> </tr> <tr> <td>ORC-12.6</td> <td>Ordering Provider Prefix</td> <td>DR</td> </tr> <tr> <td>ORC-12.7</td> <td>Ordering Provider Degree</td> <td>MD</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-12.2	Ordering Provider Last Name	PROVIDER <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-12.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-12.2.1	Surname [ST]	PROVIDER	ORC-12.3	Ordering Provider First Name	JOHN	ORC-12.4	Ordering Provider Middle Name	Q	ORC-12.5	Ordering Provider Suffix	JR	ORC-12.6	Ordering Provider Prefix	DR	ORC-12.7	Ordering Provider Degree	MD
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ORC-14	Call Back Phone Number [TN]	^^603^5551213^23 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-14.6</td> <td>Area Code</td> <td>603</td> </tr> <tr> <td>ORC-14.7</td> <td>Local Number</td> <td>5551213</td> </tr> <tr> <td>ORC-14.8</td> <td>Extension</td> <td>23</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-14.6	Area Code	603	ORC-14.7	Local Number	5551213	ORC-14.8	Extension	23															
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ORC-21.1	Organization Name [ST]	GENERAL HOSPITAL																											

**Parsed ORC Example**

Field	Field Name	Value																																	
ORC-22	Ordering Facility Address [XAD]	10&ELM AVE&SUITE 37^^ANYTOWN^NH^03999-2515^USA <table border="1" data-bbox="776 254 1453 1125"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-22.1</td> <td>Ordering Facility Address</td> <td>10&amp;ELM AVE&amp;SUITE 37               <table border="1" data-bbox="1084 317 1443 711"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-22.1.1</td> <td>Ordering Facility House Number</td> <td>10</td> </tr> <tr> <td>ORC-22.1.2</td> <td>Ordering Facility Street Name</td> <td>ELM AVE</td> </tr> <tr> <td>ORC-22.1.3</td> <td>Ordering Facility Apartment / Suite / Unit Number</td> <td>SUITE 37</td> </tr> </tbody> </table> </td> </tr> <tr> <td>ORC-22.3</td> <td>Ordering Facility City / Town</td> <td>ANYTOWN</td> </tr> <tr> <td>ORC-22.4</td> <td>Ordering Facility State</td> <td>NH</td> </tr> <tr> <td>ORC-22.5</td> <td>Ordering Facility Zip Code</td> <td>03999-2515</td> </tr> <tr> <td>ORC-22.6</td> <td>Ordering Facility Country</td> <td>USA</td> </tr> <tr> <td>ORC-22.9</td> <td>County / Parish Code</td> <td>33001</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-22.1	Ordering Facility Address	10&ELM AVE&SUITE 37 <table border="1" data-bbox="1084 317 1443 711"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-22.1.1</td> <td>Ordering Facility House Number</td> <td>10</td> </tr> <tr> <td>ORC-22.1.2</td> <td>Ordering Facility Street Name</td> <td>ELM AVE</td> </tr> <tr> <td>ORC-22.1.3</td> <td>Ordering Facility Apartment / Suite / Unit Number</td> <td>SUITE 37</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-22.1.1	Ordering Facility House Number	10	ORC-22.1.2	Ordering Facility Street Name	ELM AVE	ORC-22.1.3	Ordering Facility Apartment / Suite / Unit Number	SUITE 37	ORC-22.3	Ordering Facility City / Town	ANYTOWN	ORC-22.4	Ordering Facility State	NH	ORC-22.5	Ordering Facility Zip Code	03999-2515	ORC-22.6	Ordering Facility Country	USA	ORC-22.9	County / Parish Code	33001
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**Parsed ORC Example**

Field	Field Name	Value																																	
ORC-24	Ordering Provider Address [XAD]	10&ELM AVE&SUITE 34^^ANYTOWN^NH^03999-2515^USA																																	
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Code	Field Name	Value																																	
ORC-24.1.1	Ordering Provider House Number	10																																	
ORC-24.1.2	Ordering Provider Street Name	ELM AVE																																	
ORC-24.1.3	Ordering Provider Apartment / Suite / Unit Number	SUITE 37																																	
ORC-24.3	Patient Residence City / Town [ST]	ANYTOWN																																	
ORC-24.4	Patient Residence State [ST]	NH																																	
ORC-24.5	Patient Zip Code [ST]	03999-2515																																	
ORC-24.6	Patient Residence Country [ID]	USA																																	

### Observation Request Segment (OBR)

The HL7 OBR segment transmits information about an exam, diagnostic study/observation, or assessment that is specific to an order or result.

Observation Request Segment (OBR)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
OBR Set Identifier		<none>	OBR-1	SI	For the first repeat of the OBR segment, the sequence number shall be one (1), for the second repeat, the sequence number shall be two (2), etc.
Filler Order Number	R	<none>	OBR-3	EI	<b>NOTE:</b> OBR 3 values must be unique for every order
Filler Order Number	R	<none>	OBR-3.1		<b>NOTE:</b> OBR-3.1 must contain the same value as SPM-2.1
Namespace ID	R	<none>	OBR-3.2	ST	Name of the system used to generate the filler order number conveyed in OBR-3.1.  <b>NOTE:</b> The preferred name would be the one the laboratory information system vendor used when they obtained an OID for their system. Alternately, a locally defined name may be used.  <b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a>
Universal ID	RE	<none>	OBR-3.3	ID	ID number for system used to generate the filler order number in OBR-3.1.  <b>NOTE:</b> Preferred ID would be the OID assigned to the laboratory information system. This information is typically configured into the system by the vendor. Alternately a locally defined name may be used.  <b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a>

Observation Request Segment (OBR)															
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction										
Universal ID Type	RE	0301	OBR-3.4	ST	<p>Only the following codes will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CLIA</td> <td>Clinical Laboratories Improvement Amendments</td> </tr> <tr> <td>ISO</td> <td>An International Standards Organization Object Identifier</td> </tr> <tr> <td>L,M,N</td> <td>Local coding scheme</td> </tr> </tbody> </table> <p><b>NOTE:</b> Complete list of HL70301 codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	CLIA	Clinical Laboratories Improvement Amendments	ISO	An International Standards Organization Object Identifier	L,M,N	Local coding scheme
Partial List of Accepted Values															
Code	Description														
CLIA	Clinical Laboratories Improvement Amendments														
ISO	An International Standards Organization Object Identifier														
L,M,N	Local coding scheme														
<b>Requested Observation / Test / Battery</b>	<b>O</b>	<b>&lt;none&gt;</b>	<b>OBR-4</b>	<b>CWE</b>											
Requested Test Code	O	<none>	OBR-4.1	ST	<p>Use LOINC codes</p> <p><b>NOTE:</b> As of the creation of this document, the complete list of LOINC codes was available at <a href="https://loinc.org/">https://loinc.org/</a></p>										
Test Description	O	<none>	OBR-4.2	ST	LOINC code description associated with OBR-4.1										
Test Coding System	O	0396	OBR-4.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>LN</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	LN								
Accepted Value															
LN															
<b>Observation Date Time</b>	<b>RE</b>	<b>&lt;none&gt;</b>	<b>OBR-7</b>	<b>TS</b>	Date / Time results were observed										
Observation Date Time	RE	<none>	OBR-7.1	DTM	<p>Date / Time results collected Format: YYYYMMDDHHMMSS[+/-ZZZZ]</p> <p><b>NOTE:</b> OBR-7 must contain the same value as OBX-14 and SPM-17</p>										
<b>Ordering Provider Name</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>OBR-16</b>	<b>XCN</b>	<b>NOTE:</b> OBR-16 shall contain the exact the same as the value as contained in field ORC-12.										
Ordering Provider Family Name	R	<none>	OBR-16.2	FN											
Ordering Provider Last Name	R	<none>	OBR-16.2.1	ST											
Ordering Provider First Name	R	<none>	OBR-16.3	ST											

Observation Request Segment (OBR)																																																																							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																																																																		
Ordering Provider Middle Name	RE	<none>	OBR-16.4	ST																																																																			
Ordering Provider Suffix	RE	<none>	OBR-16.5	ST	Examples would be "Jr", "Sr", "III"																																																																		
Ordering Provider Prefix	RE	<none>	OBR-16.6	ST	Example would be "Dr"																																																																		
Ordering Provider Degree	RE	0360	OBR-16.7	IS	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>PN</td><td>Adv. Practice Nurse</td></tr> <tr><td>AAS</td><td>Assoc. Applied Science</td></tr> <tr><td>AA</td><td>Assoc. of Arts</td></tr> <tr><td>ABA</td><td>Assoc. of Business Administration</td></tr> <tr><td>AE</td><td>Assoc. of Engineering</td></tr> <tr><td>AS</td><td>Assoc. of Science</td></tr> <tr><td>BA</td><td>Bachelor of Arts</td></tr> <tr><td>BBA</td><td>Bachelor Business Administration</td></tr> <tr><td>BE</td><td>Bachelor Engineering</td></tr> <tr><td>BFA</td><td>Bachelor Fine Arts</td></tr> <tr><td>BN</td><td>Bachelor of Nursing</td></tr> <tr><td>BS</td><td>Bachelor of Science</td></tr> <tr><td>BSL</td><td>Bachelor of Science - Law</td></tr> <tr><td>BSN</td><td>Bachelor on Science - Nursing</td></tr> <tr><td>BT</td><td>Bachelor of Theology</td></tr> <tr><td>CER</td><td>Certificate</td></tr> <tr><td>CANP</td><td>Certified Adult Nurse Practitioner</td></tr> <tr><td>CMA</td><td>Certified Medical Assistant</td></tr> <tr><td>CNP</td><td>Certified Nurse Practitioner</td></tr> <tr><td>CNM</td><td>Certified Nurse Midwife</td></tr> <tr><td>CRN</td><td>Certified Registered Nurse</td></tr> <tr><td>CNS</td><td>Certified Nurse Specialist</td></tr> <tr><td>CPNP</td><td>Certified Pediatric Nurse Practitioner</td></tr> <tr><td>DIP</td><td>Diploma</td></tr> <tr><td>DBA</td><td>Doctor of Business Administration</td></tr> <tr><td>DED</td><td>Doctor of Education</td></tr> <tr><td>PharmD</td><td>Doctor of Pharmacy</td></tr> <tr><td>PHE</td><td>Doctor of Engineering</td></tr> <tr><td>PHD</td><td>Doctor of Philosophy</td></tr> <tr><td>PHS</td><td>Doctor of Science</td></tr> <tr><td>MD</td><td>Doctor of Medicine</td></tr> <tr><td>DO</td><td>Doctor of Osteopathy</td></tr> </tbody> </table> <p><b>NOTE:</b> List of HL70360 / PH_DegreeLicenseCertificate_HL7_2x codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Code	Description	PN	Adv. Practice Nurse	AAS	Assoc. Applied Science	AA	Assoc. of Arts	ABA	Assoc. of Business Administration	AE	Assoc. of Engineering	AS	Assoc. of Science	BA	Bachelor of Arts	BBA	Bachelor Business Administration	BE	Bachelor Engineering	BFA	Bachelor Fine Arts	BN	Bachelor of Nursing	BS	Bachelor of Science	BSL	Bachelor of Science - Law	BSN	Bachelor on Science - Nursing	BT	Bachelor of Theology	CER	Certificate	CANP	Certified Adult Nurse Practitioner	CMA	Certified Medical Assistant	CNP	Certified Nurse Practitioner	CNM	Certified Nurse Midwife	CRN	Certified Registered Nurse	CNS	Certified Nurse Specialist	CPNP	Certified Pediatric Nurse Practitioner	DIP	Diploma	DBA	Doctor of Business Administration	DED	Doctor of Education	PharmD	Doctor of Pharmacy	PHE	Doctor of Engineering	PHD	Doctor of Philosophy	PHS	Doctor of Science	MD	Doctor of Medicine	DO	Doctor of Osteopathy
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BS	Bachelor of Science																																																																						
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CER	Certificate																																																																						
CANP	Certified Adult Nurse Practitioner																																																																						
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CRN	Certified Registered Nurse																																																																						
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CPNP	Certified Pediatric Nurse Practitioner																																																																						
DIP	Diploma																																																																						
DBA	Doctor of Business Administration																																																																						
DED	Doctor of Education																																																																						
PharmD	Doctor of Pharmacy																																																																						
PHE	Doctor of Engineering																																																																						
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Observation Request Segment (OBR)																													
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																								
<b>Ordering Callback Phone Number</b>	R	<none>	<b>OBR-17</b>	<b>XTN</b>	Field contains the same value as ORC-14																								
Area Code	R	<none>	OBR-17.6	NM																									
Local Telephone Number	R	<none>	OBR-17.7	NM																									
Extension	RE	<none>	OBR-17.8	NM																									
<b>Results Report/Status Change Date / Time</b>	R	<none>	<b>OBR-22</b>	<b>TS</b>	Date time results were reported																								
Results Report/Status Change Date / Time	R	<none>	OBR-22.1	TS	Format: YYYYMMDDHHMMSS[+/-ZZZZ]																								
<b>Result Status (i.e. preliminary, final)</b>	O	0123 / PHVS_ResultStatus_HL7_2x	OBR-25	ID	<table border="1"> <thead> <tr> <th>Field</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Order received; specimen not yet received</td> </tr> <tr> <td>R</td> <td>Results stored; not yet verified</td> </tr> <tr> <td>I</td> <td>No results available; specimen received, procedure incomplete</td> </tr> <tr> <td>F</td> <td>Final results; results stored and verified. Can only be changed with a corrected result.</td> </tr> <tr> <td>S</td> <td>No results available; procedure scheduled, but not done</td> </tr> <tr> <td>X</td> <td>No results available; Order canceled.</td> </tr> <tr> <td>A</td> <td>Some, but not all, results available</td> </tr> <tr> <td>Y</td> <td>No order on record for this test. (Used only on queries)</td> </tr> <tr> <td>P</td> <td>Preliminary: A verified early result is available, final results not yet obtained</td> </tr> <tr> <td>Z</td> <td>No record of this patient. (Used only on queries)</td> </tr> <tr> <td>C</td> <td>Correction to results</td> </tr> </tbody> </table>	Field	Description	O	Order received; specimen not yet received	R	Results stored; not yet verified	I	No results available; specimen received, procedure incomplete	F	Final results; results stored and verified. Can only be changed with a corrected result.	S	No results available; procedure scheduled, but not done	X	No results available; Order canceled.	A	Some, but not all, results available	Y	No order on record for this test. (Used only on queries)	P	Preliminary: A verified early result is available, final results not yet obtained	Z	No record of this patient. (Used only on queries)	C	Correction to results
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**OBR Example:**

```
OBR|1||6810031234^EHR_Name^EHR_ID_Code^L,M,N
|30039-2^ANAPLASMA PHAGOCYTOPHILUM^LN||20150510161500-0500|||||
|^PROVIDER^JOHN^Q^JR^DR^MD|^^^^603^5551213^23|||
|20150513064145-0500|||F
```

**Parsed OBR Example:**

Field	Field Name	Value																											
OBR-1	Set ID - Observation Request [SI]	1																											
OBR-3	Filler Order Number [EI]	6810031234^EHR_Name^EHR_ID_Code^L,M,N <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-3.1</td> <td>Requested Test Code</td> <td>6810031234</td> </tr> <tr> <td>OBR-3.2</td> <td>Test Description</td> <td>EHR_Name</td> </tr> <tr> <td>OBR-3.3</td> <td>Test Coding System</td> <td>EHR_ID_Code</td> </tr> <tr> <td>OBR-3.4</td> <td>Universal ID Type</td> <td>L,M,N</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-3.1	Requested Test Code	6810031234	OBR-3.2	Test Description	EHR_Name	OBR-3.3	Test Coding System	EHR_ID_Code	OBR-3.4	Universal ID Type	L,M,N												
Field	Field Name	Value																											
OBR-3.1	Requested Test Code	6810031234																											
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OBR-3.4	Universal ID Type	L,M,N																											
OBR-4	Universal Service Identifier [CWE]	30039-2^ANAPLASMA PHAGOCYTOPHILUM^LN <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-4.1</td> <td>Requested Test Code</td> <td>30039-2</td> </tr> <tr> <td>OBR-4.2</td> <td>Test Description</td> <td>ANAPLASMA PHAGOCYTOPHILUM</td> </tr> <tr> <td>OBR-4.3</td> <td>Test Coding System</td> <td>LN</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-4.1	Requested Test Code	30039-2	OBR-4.2	Test Description	ANAPLASMA PHAGOCYTOPHILUM	OBR-4.3	Test Coding System	LN															
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OBR-4.2	Test Description	ANAPLASMA PHAGOCYTOPHILUM																											
OBR-4.3	Test Coding System	LN																											
OBR-7	Observation Date/Time [TS]	20130510161500-0004																											
OBR-16	Ordering Provider [XCN]	^PROVIDER^JOHN^Q^JR^DR^MD <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2</td> <td>Ordering Provider Last Name [FN]</td> <td>PROVIDER               <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table> </td> </tr> <tr> <td>OBR-16.3</td> <td>Ordering Provider First Name [ST]</td> <td>JOHN</td> </tr> <tr> <td>OBR-16.4</td> <td>Ordering Provider Middle Name [ST]</td> <td>Q</td> </tr> <tr> <td>OBR-16.5</td> <td>Ordering Provider Suffix [ST]</td> <td>JR</td> </tr> <tr> <td>OBR-16.6</td> <td>Ordering Provider Prefix [ST]</td> <td>DR</td> </tr> <tr> <td>OBR-16.7</td> <td>Ordering Provider Degree [IS]</td> <td>MD</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-16.2	Ordering Provider Last Name [FN]	PROVIDER <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-16.2.1	Surname [ST]	PROVIDER	OBR-16.3	Ordering Provider First Name [ST]	JOHN	OBR-16.4	Ordering Provider Middle Name [ST]	Q	OBR-16.5	Ordering Provider Suffix [ST]	JR	OBR-16.6	Ordering Provider Prefix [ST]	DR	OBR-16.7	Ordering Provider Degree [IS]	MD
Field	Field Name	Value																											
OBR-16.2	Ordering Provider Last Name [FN]	PROVIDER <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-16.2.1	Surname [ST]	PROVIDER																					
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OBR-16.7	Ordering Provider Degree [IS]	MD																											
OBR-17	Order Callback Phone Number [XTN]	^^^^603^5551213^23 <table border="1"> <thead> <tr> <th>Code</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-17.6</td> <td>Area Code [NM]</td> <td>603</td> </tr> <tr> <td>OBR-17.7</td> <td>Local Number [NM]</td> <td>5551213</td> </tr> <tr> <td>OBR-17.8</td> <td>Extension [NM]</td> <td>23</td> </tr> </tbody> </table>	Code	Field Name	Value	OBR-17.6	Area Code [NM]	603	OBR-17.7	Local Number [NM]	5551213	OBR-17.8	Extension [NM]	23															
Code	Field Name	Value																											
OBR-17.6	Area Code [NM]	603																											
OBR-17.7	Local Number [NM]	5551213																											
OBR-17.8	Extension [NM]	23																											



OBR-22	Results Report/Status Change Date / Time [TS]	20150513064145-0500 <table border="1" data-bbox="776 170 1448 506"> <thead> <tr> <th data-bbox="776 170 906 226">Field Name</th> <th data-bbox="906 170 1448 226">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="776 226 906 258">Year</td> <td data-bbox="906 226 1448 258">2015</td> </tr> <tr> <td data-bbox="776 258 906 289">Month</td> <td data-bbox="906 258 1448 289">05</td> </tr> <tr> <td data-bbox="776 289 906 321">Day</td> <td data-bbox="906 289 1448 321">13</td> </tr> <tr> <td data-bbox="776 321 906 352">Hour</td> <td data-bbox="906 321 1448 352">06</td> </tr> <tr> <td data-bbox="776 352 906 384">Minutes</td> <td data-bbox="906 352 1448 384">41</td> </tr> <tr> <td data-bbox="776 384 906 415">Seconds</td> <td data-bbox="906 384 1448 415">45</td> </tr> <tr> <td data-bbox="776 415 906 506">GMT Offset</td> <td data-bbox="906 415 1448 506">0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	13	Hour	06	Minutes	41	Seconds	45	GMT Offset	0500
Field Name	Value																	
Year	2015																	
Month	05																	
Day	13																	
Hour	06																	
Minutes	41																	
Seconds	45																	
GMT Offset	0500																	
OBR-25	Result Status (I.e. preliminary, final) [ID]	F																

### Observation Result Segment (OBX)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report. Whether a single observation or observation fragment is reported will alter the structure of field OBX-5. In the most basic result report, OBX-5 would be a primitive data type. Other kinds of results require different kinds of composite data types to be used to populate field OBX-5.

The type of result reported in field OBX-5 will also dictate how other fields within the OBX segment should be populated (e.g. OBX-6 will describe the units of measure used to populate field OBX-5 when OBX-5 stores a number, alternately field OBX-6 would be empty when OBX is populated with a coded entry).

This guide is organized to provide a basic definition of the OBX-segment, then provide more specific instruction on how to accommodate this basic structure for the reporting of different kinds of results.

Observation Result Segment (OBX)																	
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction												
OBX Set Identifier	R	<none>	OBX-1	SI	<p>Set ID number indicating a distinct lab test result associated with a parent lab order defined within OBR order was filled.</p> <p>For the first repeat of the OBX segment, the sequence number shall be one (1), for the second repeat, the sequence number shall be two (2), etc.</p>												
Value Type	R	0125 / PHVS_ValueType_ELRL	OBX-2	ID	<p>Only the following codes will be accepted:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CE</td> <td>Coded Entry (included for backwards compatibility)</td> </tr> <tr> <td>CWE</td> <td>Coded with Exception</td> </tr> <tr> <td>NM</td> <td>Numeric</td> </tr> <tr> <td>SN</td> <td>Structured Numeric</td> </tr> <tr> <td>TX</td> <td>Text</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL7 0125 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_ValueType_ELRL at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Code	Description	CE	Coded Entry (included for backwards compatibility)	CWE	Coded with Exception	NM	Numeric	SN	Structured Numeric	TX	Text
Code	Description																
CE	Coded Entry (included for backwards compatibility)																
CWE	Coded with Exception																
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TX	Text																

Observation Result Segment (OBX)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
Observation Identifier	R	<none>	OBX-3	CWE	The complete list of New Hampshire reportable communicable disease conditions is available at <a href="http://www.dhhs.state.nh.us/dphs/cdcs/documents/reportablediseases.pdf">http://www.dhhs.state.nh.us/dphs/cdcs/documents/reportablediseases.pdf</a> . Additionally, all lead test results (regardless of test result) are reportable.		
Lab Order Code	R	<none>	OBX-3.1	ST	LOINC code describing the laboratory observation/test requested  <b>NOTE:</b> As of the creation of this document, the complete list of LOINC codes was available at <a href="https://loinc.org/">https://loinc.org/</a>		
Lab Order Code Description	R	<none>	OBX-3.2	ST	LOINC code description		
Lab Order Coding System	R	0396	OBX-3.3	ID	Only the following code will be accepted: <table border="1" data-bbox="1062 898 1430 961"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>LN</td> </tr> </tbody> </table> <b>NOTE:</b> Complete list of HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a>	Accepted Value	LN
Accepted Value							
LN							
Observation Sub-ID	C	<none>	OBX-4	ST	Field is 'required' (R) when two or more OBX segments are needed to report the results from a single lab order. For example, the lab order requests that all bacteria be identified from a single sample AND more than one type of bacteria is identified. The first OBX result associated with the single test order will populate this field with a one (1), the second result with a two (2), etc.		
Observation Value (Results)	RE	<none>	OBX-5	Variables	Laboratory observation results/test results shall be returned in accordance with the value declared in OBX-2. Additional information on these observations should be included in NTE segment notes when appropriate.		

Observation Result Segment (OBX)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
Observation Units	C	<none>	OBX-6	CWE	Field is 'Required' (R) for all lead test results.  Field is 'Required or Empty' (RE) only when OBX-2 contains "NM" or "SN".  The field shall be empty in all other circumstances.		
Observation Units Identifier	RE	Unified Code for Units of Measure (UCUM)	OBX-6.1	ST	Only the following literal value will be accepted for lead test results: <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>MCG/DL</td> </tr> </tbody> </table> <b>NOTE:</b> Table PHVS_UnitsOfMeasureVolume_UCUM is available through <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> . Table UCUM is available through <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> .	Accepted Value	MCG/DL
Accepted Value							
MCG/DL							
Observation Units Text	RE	<none>	OBX-6.2	ST	Suggested value for lead test results <table border="1"> <thead> <tr> <th>Suggested Value</th> </tr> </thead> <tbody> <tr> <td>MICROGRAMS PER DECILITER</td> </tr> </tbody> </table>	Suggested Value	MICROGRAMS PER DECILITER
Suggested Value							
MICROGRAMS PER DECILITER							
Name of Observation Units Coding System	RE	0396	OBX-6.3	ID	Any of the following code will be accepted: <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>UCUM</td> </tr> </tbody> </table> <b>NOTE:</b> The complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a>	Accepted Value	UCUM
Accepted Value							
UCUM							
Reference Range	C		OBX-7	ST	Range of values expected for normal results.  Field is 'Required' (R) when using 'SN' results to report ordinal results with interpretation. Field is otherwise 'Optional' (O).		
Abnormal Flags	O		OBX-8	CWE			

Observation Result Segment (OBX)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Abnormal Flag Code	O	0078 / PHVS_A bnorma IFlag_HL 7_27	OBX-8.1	ST	<b>Accepted Values</b>	
					<b>Code</b>	<b>Description</b>
					L	Below low normal
					H	Above high normal
					LL	Below lower panic limits
					HH	Above upper panic limits
					<	Below absolute low-off instrument scale
					>	Above absolute high-off instrument scale
					N	Normal (applies to non-numeric results)
					A	Abnormal (applies to non-numeric results)
					AA	Very abnormal (applies to non-numeric results, analogous to panic limits for numeric results)
					Null	No range defined, or normal ranges don't apply
					U	Significant change up
					D	Significant change down
					B	Better—use when direction not relevant
					W	Worse—use when direction not relevant
					<b>For microbiology susceptibilities only</b>	
					S	Susceptible
					R	Resistant
					I	Intermediate
MS	Moderately susceptible					
VS	Very susceptible					
<p><b>NOTE:</b> The complete list of HL7 0078 / PHVS_AbnormalFlag_HL7_27 codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>						
Abnormal Flag Description	O		OBX-8.2	ST		

Observation Result Segment (OBX)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Abnormal Flag Coding System		0396	OBX-8.3	ID	<p>The following code will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>HL70078</td> <td>Abnormal Flags</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Values		Code	Description	HL70078	Abnormal Flags
Accepted Values											
Code	Description										
HL70078	Abnormal Flags										

Observation Result Segment (OBX)																																	
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																												
Observation Result Status (i.e. preliminary, final)	RE	0085 / PHVS_ObservationResultStatus_HL7_2x	OBX-11	ID	<p>The following codes will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Record coming over is a correction and thus replaces a final result</td> </tr> <tr> <td>D</td> <td>Deletes the OBX record</td> </tr> <tr> <td>F</td> <td>Final results; Can only be changed with a corrected result.</td> </tr> <tr> <td>I</td> <td>Specimen in lab; results pending</td> </tr> <tr> <td>N</td> <td>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.</td> </tr> <tr> <td>O</td> <td>Order detail description only (no result)</td> </tr> <tr> <td>P</td> <td>Preliminary results</td> </tr> <tr> <td>R</td> <td>Results entered -- not verified</td> </tr> <tr> <td>S</td> <td>Partial results</td> </tr> <tr> <td>X</td> <td>Results cannot be obtained for this observation</td> </tr> <tr> <td>U</td> <td>Results status change to final without retransmitting results already sent as 'preliminary.'  Example: radiology changes status from preliminary to final</td> </tr> <tr> <td>W</td> <td>Original post was wrong,  Example: result associated with wrong patient</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL7 0085 / PHVS_ObservationResultStatus_HL7_2x codes is available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Values		Code	Description	C	Record coming over is a correction and thus replaces a final result	D	Deletes the OBX record	F	Final results; Can only be changed with a corrected result.	I	Specimen in lab; results pending	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.	O	Order detail description only (no result)	P	Preliminary results	R	Results entered -- not verified	S	Partial results	X	Results cannot be obtained for this observation	U	Results status change to final without retransmitting results already sent as 'preliminary.'  Example: radiology changes status from preliminary to final	W	Original post was wrong,  Example: result associated with wrong patient
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W	Original post was wrong,  Example: result associated with wrong patient																																

Observation Result Segment (OBX)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Observation Date/Time	R	<none>	OBX-14	TS	Date/time when specimen was collected  Format: YYYYMMDDHHMMSS[+/-ZZZZ]  <b>NOTE:</b> OBX-14 shall convey the same value as OBR-7 and SPM-17						
Producer's Reference	C	<none>	OBX-15	CWE	OBX-15 is required only when lead test results are reported.  The value posted in OBX-15 should be different from OBX-23 when the referring / specimen collection laboratory is different from the resulting laboratory						
Identifier	C	<none>	OBX-15.1	ST	Enter CLIA Code for the laboratory that generates the result  <b>NOTE:</b> <a href="https://www.cms.gov/">https://www.cms.gov/</a> has a CLIA lookup tool to confirm CLIA IDs						
Referring Laboratory Name	C	<none>	OBX-15.2	ST	Populate this field with the name of the name of the laboratory that generates the result						
Name Of Coding System	C	0396	OBX-15.3	ID	The following literal value will be accepted: <table border="1" data-bbox="1063 1176 1432 1329"> <thead> <tr> <th colspan="2">Accepted Value</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CLIA</td> <td>Clinical Laboratories Improvements Amendments</td> </tr> </tbody> </table> <b>NOTE:</b> The complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a>	Accepted Value		Code	Description	CLIA	Clinical Laboratories Improvements Amendments
Accepted Value											
Code	Description										
CLIA	Clinical Laboratories Improvements Amendments										
Observation Method	C		OBX-17	CWE	Field is required for lead test results reporting, otherwise the field is optional						
Identifier	C	HL7 V3 Observation Method / PHVS_LabTest Methods_CDC	OBX-17.1	ST	<b>NOTE:</b> Reference table 'HL7 V3 Observation Method' is available at <a href="http://hl7.org/fhir/valueset-observation-methods.html">http://hl7.org/fhir/valueset-observation-methods.html</a> and 'PHVS_LabTestMethods_CDC' is at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a>						



Observation Result Segment (OBX)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Description	C		OBX-17.2	ST							
Name Of Coding System	C	0396	OBX-17.3	ID	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>OBSMETHOD</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	OBSMETHOD				
Accepted Value											
OBSMETHOD											
Analysis Date/Time	R	<none>	OBX-19	TS	<p>Date/time when results were collected</p> <p>Format: YYYYMMDDHHMMSS[+/-ZZZZ]</p>						
Resulting Organization Name	C	<none>	OBX-23	XON	Field is required (R) unless the OBX segment is used to convey either Patient Occupation or Patient Employer information						
Resulting Organization Name	R	<none>	OBX-23.1	ST							
Assigning Authority	R	<none>	OBX-23.6	HD							
Assigning Authority Coding System	R	OID List	OBX-23.6.1	IS	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Value</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CLIA</td> <td>Clinical Laboratories Improvements Amendments</td> </tr> </tbody> </table> <p><b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a></p>	Accepted Value		Code	Description	CLIA	Clinical Laboratories Improvements Amendments
Accepted Value											
Code	Description										
CLIA	Clinical Laboratories Improvements Amendments										
Assigning Authority ID	R	OID List	OBX-23.6.2	ST	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>2.16.840.1.113883.4.7</td> </tr> </tbody> </table> <p><b>NOTE:</b> Partial list of OID identifiers is available at <a href="http://www.hl7.org/Oid/index.cfm">http://www.hl7.org/Oid/index.cfm</a></p>	Accepted Value	2.16.840.1.113883.4.7				
Accepted Value											
2.16.840.1.113883.4.7											

Observation Result Segment (OBX)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Assigning Authority Name	R	0301	OBX-23.6.3	ID	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Value</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>ISO</td> <td>International Standards Organization</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Accepted Value		Code	Description	ISO	International Standards Organization
Accepted Value											
Code	Description										
ISO	International Standards Organization										
Identifier Type Code	R	0203	OBX-23.7	ID	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Value</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>XX</td> <td>Organization Identifier</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL7 0203 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_IdentifierType_CDC codes are available at <a href="http://phinvads.cdc.gov/">http://phinvads.cdc.gov/</a></p>	Accepted Value		Code	Description	XX	Organization Identifier
Accepted Value											
Code	Description										
XX	Organization Identifier										
Resulting Organization Identifier	R	<none>	OBX-23.10	ST	<p>CLIA ID assigned to the resulting laboratory</p> <p><b>NOTE:</b> <a href="https://www.cms.gov/">https://www.cms.gov/</a> has a CLIA lookup tool to confirm CLIA IDs</p>						
<b>Resulting Organization Address</b>	<b>C</b>	<b>&lt;none&gt;</b>	<b>OBX-24</b>	XAD	Field is required (R) unless the OBX segment is used to convey either Patient Occupation or Patient Employer information						
Resulting Organization Street Address	R	<none>	OBX-24.1	SAD							
House Number	R	<none>	OBX-24.1.1	ST	Resulting Laboratory House Number Address						
Street Name	R	<none>	OBX-24.1.2	ST	Resulting Laboratory Street Name						
Apartment/Suite/Unit Number	RE	<none>	OBX-24.1.3	ST	Resulting Laboratory Unit Number						
Resulting Organization Town	RE	<none>	OBX-24.3	ST	Resulting Facility Town						

Observation Result Segment (OBX)						
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction	
Resulting Organization State	RE	PHVS_State_FIPS_5-2	OBX-24.4	ST	<b>Accepted US Values</b>	
					<b>Code</b>	<b>Description</b>
					AL	Alabama
					AK	Alaska
					AZ	Arizona
					AR	Arkansas
					CA	California
					CO	Colorado
					CT	Connecticut
					DE	Delaware
					DC	District of Columbia
					FL	Florida
					GA	Georgia
					HI	Hawaii
					ID	Idaho
					IL	Illinois
					IN	Indiana
					IA	Iowa
					KS	Kansas
					KY	Kentucky
					LA	Louisiana
					ME	Maine
					MD	Maryland
					MA	Massachusetts
					MI	Michigan
					MN	Minnesota
					MS	Mississippi
					MO	Missouri
					MT	Montana
					NE	Nebraska
					NV	Nevada
					NH	New Hampshire
					NJ	New Jersey
					NM	New Mexico
					NY	New York
					NC	North Carolina
					ND	North Dakota
					OH	Ohio
					OK	Oklahoma
					OR	Oregon
					PA	Pennsylvania
					PR	Puerto Rico
					RI	Rhode Island
					SC	South Carolina
					SD	South Dakota
					TN	Tennessee
					TX	Texas
UT	Utah					
VT	Vermont					
VA	Virginia					
WA	Washington					
WV	West Virginia					
WI	Wisconsin					
WY	Wyoming					
					<b>NOTE:</b> Complete list available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a>	

Observation Result Segment (OBX)																																																																							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction																																																																		
Resulting Organization Zip Code	RE	<none>	OBX-24.5	ST	Format: 99999[-9999] for US Zip or A9A9A9 for Canadian postal codes																																																																		
Resulting Organization Country	RE	0399	OBX-24.6	ID	<p>The 31 most common country of origin codes found in NH health data are listed below:</p> <table border="1"> <thead> <tr> <th colspan="2">Partial List of Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>AUT</td><td>Austria</td></tr> <tr><td>BEL</td><td>Belgium</td></tr> <tr><td>CAN</td><td>Canada</td></tr> <tr><td>CHE</td><td>Switzerland</td></tr> <tr><td>CHN</td><td>China</td></tr> <tr><td>CUB</td><td>Cuba</td></tr> <tr><td>DEU</td><td>Germany</td></tr> <tr><td>DOM</td><td>Dominican Republic</td></tr> <tr><td>FIN</td><td>Finland</td></tr> <tr><td>FRA</td><td>France</td></tr> <tr><td>GBR</td><td>United Kingdom</td></tr> <tr><td>GRC</td><td>Greece</td></tr> <tr><td>HUN</td><td>Hungary</td></tr> <tr><td>IND</td><td>India</td></tr> <tr><td>IRE</td><td>Ireland</td></tr> <tr><td>ITA</td><td>Italy</td></tr> <tr><td>JPN</td><td>Japan</td></tr> <tr><td>LBN</td><td>Lebanon</td></tr> <tr><td>LTU</td><td>Lithuania</td></tr> <tr><td>MEX</td><td>Mexico</td></tr> <tr><td>NLD</td><td>Netherlands</td></tr> <tr><td>NOR</td><td>Norway</td></tr> <tr><td>PHL</td><td>Philippines</td></tr> <tr><td>POL</td><td>Poland</td></tr> <tr><td>PRT</td><td>Portugal</td></tr> <tr><td>ROU</td><td>Romania</td></tr> <tr><td>RUS</td><td>Russia</td></tr> <tr><td>SWE</td><td>Sweden</td></tr> <tr><td>UKR</td><td>Ukraine</td></tr> <tr><td>USA</td><td>United States of America</td></tr> <tr><td>VNM</td><td>Vietnam</td></tr> </tbody> </table> <p><b>NOTE:</b> PHVS_Country_ISO_3166-1 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and Country Value Set codes at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	Partial List of Accepted Values		Code	Description	AUT	Austria	BEL	Belgium	CAN	Canada	CHE	Switzerland	CHN	China	CUB	Cuba	DEU	Germany	DOM	Dominican Republic	FIN	Finland	FRA	France	GBR	United Kingdom	GRC	Greece	HUN	Hungary	IND	India	IRE	Ireland	ITA	Italy	JPN	Japan	LBN	Lebanon	LTU	Lithuania	MEX	Mexico	NLD	Netherlands	NOR	Norway	PHL	Philippines	POL	Poland	PRT	Portugal	ROU	Romania	RUS	Russia	SWE	Sweden	UKR	Ukraine	USA	United States of America	VNM	Vietnam
Partial List of Accepted Values																																																																							
Code	Description																																																																						
AUT	Austria																																																																						
BEL	Belgium																																																																						
CAN	Canada																																																																						
CHE	Switzerland																																																																						
CHN	China																																																																						
CUB	Cuba																																																																						
DEU	Germany																																																																						
DOM	Dominican Republic																																																																						
FIN	Finland																																																																						
FRA	France																																																																						
GBR	United Kingdom																																																																						
GRC	Greece																																																																						
HUN	Hungary																																																																						
IND	India																																																																						
IRE	Ireland																																																																						
ITA	Italy																																																																						
JPN	Japan																																																																						
LBN	Lebanon																																																																						
LTU	Lithuania																																																																						
MEX	Mexico																																																																						
NLD	Netherlands																																																																						
NOR	Norway																																																																						
PHL	Philippines																																																																						
POL	Poland																																																																						
PRT	Portugal																																																																						
ROU	Romania																																																																						
RUS	Russia																																																																						
SWE	Sweden																																																																						
UKR	Ukraine																																																																						
USA	United States of America																																																																						
VNM	Vietnam																																																																						

### Special OBX Segment Instructions

The following sections provide variations from the base OBX segment definition to be used when reporting different kinds of results. These latter instructions are should be read as override instructions.

### Reporting (CWE) Ordinal Values with Interpretation

The preferred method for reporting laboratory results is through the use of coded ordinal values.

Reporting (CWE) Ordinal Values with Interpretation													
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction								
OBX Set Identifier	R	<none>	OBX-1	SI	Use default OBX field population rules								
Observation Type	R	0125	OBX-2	ID	<p>The following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>CWE</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL7 0125 is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and PHVS_ValueType_ELRL at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a></p>	Accepted Value	CWE						
Accepted Value													
CWE													
Observation Identifier	R	0125	OBX-3	CWE	Use default OBX field population rules								
Observation Sub-ID	C	<none>	OBX-4	ST	Use default OBX field population rules								
Observation Value (Results)	RE	<none>	OBX-5	CWE	Ordinal result shall be reported as a coded value								
Standard Results Code	RE	<none>	OBX-5.1	ST	<p>SNOMED codes are required for all coded results.</p> <p><b>NOTE:</b> SNOMED codes are available at <a href="http://ihtsdo.org/fileadmin/user_upload/doc/browsers/browsers.html">http://ihtsdo.org/fileadmin/user_upload/doc/browsers/browsers.html</a></p>								
Standard Text	RE	<none>	OBX-5.2	ST	Description								
Name of Standard Coding System	RE	0396	OBX-5.3	ID	<p>Only the following codes will be accepted:</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values</th> </tr> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SNM</td> <td>SNOMED Legacy code</td> </tr> <tr> <td>SCT</td> <td>SNOMED legacy code or concept code</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Values		Code	Description	SNM	SNOMED Legacy code	SCT	SNOMED legacy code or concept code
Accepted Values													
Code	Description												
SNM	SNOMED Legacy code												
SCT	SNOMED legacy code or concept code												
Original Text	O	<none>	OBX-5.9	ST	Test result description in plain text								

Reporting (CWE) Ordinal Values with Interpretation					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Units	R	PH_UnitsOfMeasure_UCUM	OBX-6	CWE	Field must be empty
Reference Range	R	<none>	OBX-7	ST	Use default OBX field population rules
Abnormal Flags	O	0078	OBX-8	CWE	Use default OBX field population rules
Observation Result Status (i.e. preliminary, final)	RE	0085	OBX-11	ID	Use default OBX field population rules rules
Observation Date/Time	R	<none>	OBX-14	TS	Use default OBX field population rules
Producer's Reference	C	<none>	OBX-15	CWE	Use default OBX field population rules
Observation Method	C	<none>	OBX-17	CWE	Use default OBX field population rules
Resulting Organization Name	R	<none>	OBX-23	XON	Use default OBX field population rules
Resulting Organization Address	R	<none>	OBX-24	XAD	Use default OBX field population rules

*Reporting (CWE) Ordinal Values with Interpretation Example:*

```
OBX|1|CWE|22131-7^Borellia burgdorferi IgG+IgM Ab [Presence] in
Serum^LN||42425007^Equivocal (qualifier value^SCT^^^^^
^Equivocal|||A^ABNORMAL^HL70078|||F||
|20150510161500-0005|||0070^ELISA^OBSMETHOD|||CENTRAL LABORATORY
SERVICES CORP^^^^ ^CLIA&2.16.840.1.113883.99.9.9&ISO^XX^^30D0999999
|100&MAIN STREET^^ANYTOWN^NH^03999^USA
```

*Parsed Reporting (CWE) Ordinal Values with Interpretation Example:*

Parsed Reporting Ordinal Values with Interpretation (CWE) Example																	
Field	Field Name	Value															
OBX-1	OBX Set Identifier [SI]	1															
OBX-2	Value Type [ID]	CWE															
OBX-3	Observation Identifier [CWE]	22131-7^Borellia burgdorferi IgG+IgM Ab [Presence] in Serum^LN <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-3.1</td> <td>Lab Order Code [ST]</td> <td>22131-7</td> </tr> <tr> <td>OBX-3.2</td> <td>Lab Order Code Description [ST]</td> <td>Borellia burgdorferi IgG+IgM Ab [Presence] in Serum</td> </tr> <tr> <td>OBX-3.3</td> <td>Lab Order Coding System [ID]</td> <td>LN</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-3.1	Lab Order Code [ST]	22131-7	OBX-3.2	Lab Order Code Description [ST]	Borellia burgdorferi IgG+IgM Ab [Presence] in Serum	OBX-3.3	Lab Order Coding System [ID]	LN			
Field	Field Name	Value															
OBX-3.1	Lab Order Code [ST]	22131-7															
OBX-3.2	Lab Order Code Description [ST]	Borellia burgdorferi IgG+IgM Ab [Presence] in Serum															
OBX-3.3	Lab Order Coding System [ID]	LN															
OBX-5	Observation Value (Results) [CWE]	42425007^Equivocal (qualifier value)^SCT^^^^^Equivocal <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-5.1</td> <td>Standard Results Code [ST]</td> <td>42425007</td> </tr> <tr> <td>OBX-5.2</td> <td>Standard Text [ST]</td> <td>Equivocal (qualifier value)</td> </tr> <tr> <td>OBX-5.3</td> <td>Name of Standard Coding System [ID]</td> <td>SCT</td> </tr> <tr> <td>OBX-5.9</td> <td>Original Text [ST]</td> <td>Equivocal</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-5.1	Standard Results Code [ST]	42425007	OBX-5.2	Standard Text [ST]	Equivocal (qualifier value)	OBX-5.3	Name of Standard Coding System [ID]	SCT	OBX-5.9	Original Text [ST]	Equivocal
Field	Field Name	Value															
OBX-5.1	Standard Results Code [ST]	42425007															
OBX-5.2	Standard Text [ST]	Equivocal (qualifier value)															
OBX-5.3	Name of Standard Coding System [ID]	SCT															
OBX-5.9	Original Text [ST]	Equivocal															
OBX-6	Observation Units [CWE]	<empty>															
OBX-7	Reference Range [ST]	<empty>															
OBX-8	Abnormal Flag [CWE]	A^ABNORMAL^HL70078 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-8.1</td> <td>Abnormal Flag Code [ST]</td> <td>A</td> </tr> <tr> <td>OBX-8.2</td> <td>Abnormal Flag Code Description [ST]</td> <td>ABNORMAL</td> </tr> <tr> <td>OBX-8.3</td> <td>Abnormal Flag Coding System [ID]</td> <td>HL70078</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-8.1	Abnormal Flag Code [ST]	A	OBX-8.2	Abnormal Flag Code Description [ST]	ABNORMAL	OBX-8.3	Abnormal Flag Coding System [ID]	HL70078			
Field	Field Name	Value															
OBX-8.1	Abnormal Flag Code [ST]	A															
OBX-8.2	Abnormal Flag Code Description [ST]	ABNORMAL															
OBX-8.3	Abnormal Flag Coding System [ID]	HL70078															
OBX-11	Observation Result Status [ID]	F															

**Parsed Reporting Ordinal Values with Interpretation (CWE) Example**

Field	Field Name	Value																
OBX-14	Observation Date/Time [TS]	20150510161500-0005 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0005</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0005
Field Name	Value																	
Year	2015																	
Month	05																	
Day	10																	
Hour	16																	
Minutes	15																	
Seconds	00																	
GMT Offset	0005																	
OBX-15	Producer's Reference [CWE]	30D0999999^CENTRAL LABORATORY SERVICES CORP^CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-15.1</td> <td>Resulting Organization Identifier [ST]</td> <td>30D0999999</td> </tr> <tr> <td>OBX-15.2</td> <td>Resulting Organization Name [ST]</td> <td>CENTRAL LABORATORY SERVICES CORP</td> </tr> <tr> <td>OBX-15.3</td> <td>Name of Coding System [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-15.1	Resulting Organization Identifier [ST]	30D0999999	OBX-15.2	Resulting Organization Name [ST]	CENTRAL LABORATORY SERVICES CORP	OBX-15.3	Name of Coding System [ID]	CLIA				
Field	Field Name	Value																
OBX-15.1	Resulting Organization Identifier [ST]	30D0999999																
OBX-15.2	Resulting Organization Name [ST]	CENTRAL LABORATORY SERVICES CORP																
OBX-15.3	Name of Coding System [ID]	CLIA																
OBX-17	Observation Method [CWE]	0070^ELISA^OBSMETHOD <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-17.1</td> <td>Resulting Organization Identifier [ST]</td> <td>0070</td> </tr> <tr> <td>OBX-17.2</td> <td>Resulting Organization Name [ST]</td> <td>ELISA</td> </tr> <tr> <td>OBX-17.3</td> <td>Name of Coding System [ID]</td> <td>OBSMETHOD</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-17.1	Resulting Organization Identifier [ST]	0070	OBX-17.2	Resulting Organization Name [ST]	ELISA	OBX-17.3	Name of Coding System [ID]	OBSMETHOD				
Field	Field Name	Value																
OBX-17.1	Resulting Organization Identifier [ST]	0070																
OBX-17.2	Resulting Organization Name [ST]	ELISA																
OBX-17.3	Name of Coding System [ID]	OBSMETHOD																
OBX-19	Observation Date/Time [TS]	20150510161500-0005 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0005</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0005
Field Name	Value																	
Year	2015																	
Month	05																	
Day	10																	
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Minutes	15																	
Seconds	00																	
GMT Offset	0005																	



**Parsed Reporting Ordinal Values with Interpretation (CWE) Example**

Field	Field Name	Value																											
OBX-23	Resulting Organization Name [XON]	CENTRAL LABORATORY SERVICES CORP^^^^ ^CLIA&2.16.840.1.113883.99.9.9&ISO^XX^^^30D0999999																											
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.1</td> <td>Resulting Organization Name [ST]</td> <td>CENTRAL LABORATORY SERVICES CORP</td> </tr> <tr> <td>OBX-23.6</td> <td>Assigning Authority [HD]</td> <td>CLIA&amp;2.16.840.1.113883.99.9.9&amp;ISO                             <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Assigning Authority Coding System [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Assigning Authority Name [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> <tr> <td>OBX-23.7</td> <td>Identifier Type Code [ID]</td> <td>XX</td> </tr> <tr> <td>OBX-23.10</td> <td>Resulting Organization Identifier [ST]</td> <td>30D0999999</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.1	Resulting Organization Name [ST]	CENTRAL LABORATORY SERVICES CORP	OBX-23.6	Assigning Authority [HD]	CLIA&2.16.840.1.113883.99.9.9&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Assigning Authority Coding System [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Assigning Authority Name [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA	OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.99.9.9	OBX-23.6.3	Assigning Authority Name [ID]	ISO	OBX-23.7	Identifier Type Code [ID]	XX	OBX-23.10	Resulting Organization Identifier [ST]	30D0999999
		Field	Field Name	Value																									
		OBX-23.1	Resulting Organization Name [ST]	CENTRAL LABORATORY SERVICES CORP																									
		OBX-23.6	Assigning Authority [HD]	CLIA&2.16.840.1.113883.99.9.9&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Assigning Authority Coding System [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Assigning Authority Name [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA	OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.99.9.9	OBX-23.6.3	Assigning Authority Name [ID]	ISO													
		Field	Field Name	Value																									
OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA																											
OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.99.9.9																											
OBX-23.6.3	Assigning Authority Name [ID]	ISO																											
OBX-23.7	Identifier Type Code [ID]	XX																											
OBX-23.10	Resulting Organization Identifier [ST]	30D0999999																											
OBX-24	Resulting Organization Address [XAD]	100&CENTRAL STREET^^ANYTOWN^NH^03999^USA																											
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1</td> <td>Resulting Organization Street Address [SAD]</td> <td>100&amp; CENTRAL STREET                             <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>MAIN STREET</td> </tr> </tbody> </table> </td> </tr> <tr> <td>OBX-24.3</td> <td>Resulting Organization Town[ST]</td> <td>ANYTOWN</td> </tr> <tr> <td>OBX-24.4</td> <td>Resulting Organization State [ST]</td> <td>NH</td> </tr> <tr> <td>OBX-24.5</td> <td>Resulting Organization Zip Code [ST]</td> <td>03999</td> </tr> <tr> <td>OBX-24.6</td> <td>Resulting Organization Country [ID]</td> <td>USA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1	Resulting Organization Street Address [SAD]	100& CENTRAL STREET <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>MAIN STREET</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1.1	House Number [ST]	100	OBX-24.1.2	Street Name [ST]	MAIN STREET	OBX-24.3	Resulting Organization Town[ST]	ANYTOWN	OBX-24.4	Resulting Organization State [ST]	NH	OBX-24.5	Resulting Organization Zip Code [ST]	03999	OBX-24.6	Resulting Organization Country [ID]	USA
		Field	Field Name	Value																									
		OBX-24.1	Resulting Organization Street Address [SAD]	100& CENTRAL STREET <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>MAIN STREET</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1.1	House Number [ST]	100	OBX-24.1.2	Street Name [ST]	MAIN STREET																
		Field	Field Name	Value																									
		OBX-24.1.1	House Number [ST]	100																									
		OBX-24.1.2	Street Name [ST]	MAIN STREET																									
OBX-24.3	Resulting Organization Town[ST]	ANYTOWN																											
OBX-24.4	Resulting Organization State [ST]	NH																											
OBX-24.5	Resulting Organization Zip Code [ST]	03999																											
OBX-24.6	Resulting Organization Country [ID]	USA																											

## Reporting (SN) Ordinal Values with Interpretation

Reporting (SN) Ordinal Values with Interpretation												
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction							
OBX Set Identifier	R	<none>	OBX-1	SI	Use default OBX field population rules							
Observation Type	R	0125	OBX-2	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>SN</td> </tr> </tbody> </table> <p><b>NOTE:</b> Complete list of HL70125 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	SN					
Accepted Value												
SN												
Observation Identifier	R	<none>	OBX-3	CWE	Use default OBX field population rules							
Observation Sub-ID	C	<none>	OBX-4	ST	Use default OBX field population rules							
Observation Value (Results)	RE	<none>	OBX-5	SN	<p>Examples:</p> <p>^0^-^1  ^1^/^2  ^1^:^2  &lt;^10  2^+</p>							
Observation Value Comparator	RE	<none>	OBX-5.1	ST	<p>SHALL contain one of the following values when populated</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>&gt;</td> </tr> <tr> <td>&lt;</td> </tr> <tr> <td>&gt;=</td> </tr> <tr> <td>&lt;=</td> </tr> <tr> <td>=</td> </tr> <tr> <td>&lt;&gt;</td> </tr> </tbody> </table> <p><b>NOTE:</b> This component defaults to "=" if empty.</p>	Accepted Value	>	<	>=	<=	=	<>
Accepted Value												
>												
<												
>=												
<=												
=												
<>												
Observation Value Number1	RE	<none>	OBX-5.2	NM	The number can consist of an optional leading sign (+ or -), the digits, and an optional decimal point.							
Observation Value Separator/Suffix	RE	<none>	OBX-5.3	ST	<p>Must contain one of the following values</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>-</td> </tr> <tr> <td>+</td> </tr> <tr> <td>/</td> </tr> <tr> <td>.</td> </tr> <tr> <td>:</td> </tr> </tbody> </table>	Accepted Value	-	+	/	.	:	
Accepted Value												
-												
+												
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.												
:												

Reporting (SN) Ordinal Values with Interpretation					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Observation Value Number2	RE	<none>	OBX-5.4	NM	The Number can consist of an optional leading sign (+ or -), the digits, and an optional decimal point.
Units	R	PH_UnitsOfMeasure_UCUM	OBX-6	CWE	Use default OBX field population rules
Reference Range	O	<none>	OBX-7	ST	Use default OBX field population rules
Abnormal Flags	O	0078	OBX-8	ST	Use default OBX field population rules
Observation Result Status (I.e. preliminary, final)	RE	0085	OBX-11	ID	Use default OBX field population rules
Observation Date/Time	R	<none>	OBX-14	TS	Use default OBX field population rules
Producer's Reference	C	<none>	OBX-15	CWE	Use default OBX field population rules
Observation Method	C	<none>	OBX-17	CWE	Use default OBX field population rules
Resulting Organization Name	R	<none>	OBX-23	XON	Use default OBX field population rules
Resulting Organization Address	R	<none>	OBX-24	XAD	Use default OBX field population rules

Reporting (SN) Ordinal Values with Interpretation Example:

```
OBX|2|SN|5671-3^LEAD^LN|||^2.1|MCG/DL^MICROGRAMS PER DECILITER^UCUM
|<5 MCG/DL|N^NORMAL^HL70078|||F|||20150510161500-0500
|07D0099999^CENTRAL MEDICAL CENTER LABORATORY^CLIA|
|0263^Atomic Absorption Spectrophotometry^OBSMETHOD|
|20150510182521-0500|||NATIONAL REFERENCE LAB, LLC^^^^
^CLIA&2.16.840.1.113883.99.9.9&ISO^XX^^^30D0999999
|999&MAIN BOULEVARD&UNIT 99^^SPRINGFIELD^IL^62701^USA
```

Parsed Reporting (SN) Ordinal Values with Interpretation Example:

Parsed Reporting (SN) Ordinal Values with Interpretation Example			
Field	Field Name	Value	
OBX-1	OBX Set Identifier [SI]	2	
OBX-2	Value Type [ID]	SN	
OBX-3	Observation Identifier [CWE]	5671-3^LEAD^LN	
		Field	Field Name
		OBX-3.1	Lab Order Code [ST]
		OBX-3.2	Standard Text [ST]
		OBX-3.3	Lab Order Coding System [ID]
		Value	
		5671-3	
		LEAD	
		LN	
OBX-5	Observation Value (Results) [SN]	^2.1	
OBX-6	Observation Units [CWE]	MCG/DL^MICROGRAMS PER DECILITER^UCUM	
		Field	Field Name
		OBX-6.1	Observation Units Identifier [ST]
		OBX-6.2	Observation Units Text [ST]
		OBX-6.3	Name of Observation Units Coding System [ID]
		Value	
		MCG/DL	
		MICROGRAMS PER DECILITER	
		UCUM	
OBX-7	Reference Range [ST]	<5 MCG/DL	
OBX-8	Abnormal Flags [CWE]	N^NORMAL^HL70078	
		Field	Field Name
		OBX-8.1	Abnormal Flag Code [ST]
		OBX-8.2	Abnormal Flag Code Description [ST]
		OBX-8.3	Abnormal Flag Coding System [ID]
		Value	
		N	
		NORMAL	
		HL70078	
OBX-11	Observation Result Status [ID]	F	

**Parsed Reporting (SN) Ordinal Values with Interpretation Example**

Field	Field Name	Value																
OBX-14	Observation Date/Time [TS]	20150510161500-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0500
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OBX-15	Producer's Reference [CWE]	07D0099999^CENTRAL MEDICAL CENTER LABORATORY ^CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-15.1</td> <td>Resulting Organization Identifier [ST]</td> <td>07D0099999</td> </tr> <tr> <td>OBX-15.2</td> <td>Resulting Organization Name [ST]</td> <td>CENTRAL MEDICAL CENTER LABORATORY</td> </tr> <tr> <td>OBX-15.3</td> <td>Name of Coding System [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-15.1	Resulting Organization Identifier [ST]	07D0099999	OBX-15.2	Resulting Organization Name [ST]	CENTRAL MEDICAL CENTER LABORATORY	OBX-15.3	Name of Coding System [ID]	CLIA				
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OBX-15.1	Resulting Organization Identifier [ST]	07D0099999																
OBX-15.2	Resulting Organization Name [ST]	CENTRAL MEDICAL CENTER LABORATORY																
OBX-15.3	Name of Coding System [ID]	CLIA																
OBX-17	Observation Method [CWE]	0263^Atomic Absorption Spectrophotometry^OBSMETHOD <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-17.1</td> <td>Identifier [ST]</td> <td>0263</td> </tr> <tr> <td>OBX-17.2</td> <td>Description [ST]</td> <td>Atomic Absorption Spectrophotometry</td> </tr> <tr> <td>OBX-17.3</td> <td>Name of Coding System [ID]</td> <td>OBSMETHOD</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-17.1	Identifier [ST]	0263	OBX-17.2	Description [ST]	Atomic Absorption Spectrophotometry	OBX-17.3	Name of Coding System [ID]	OBSMETHOD				
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OBX-19	Date/Time of the Analysis [TS]	20150510182521-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>18</td> </tr> <tr> <td>Minutes</td> <td>25</td> </tr> <tr> <td>Seconds</td> <td>21</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	18	Minutes	25	Seconds	21	GMT Offset	0500
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**Parsed Reporting (SN) Ordinal Values with Interpretation Example**

Field	Field Name	Value																											
OBX-23	Resulting Organization Name [XON]	NATIONAL REFERENCE LAB, LLC^^^^^CLIA&2.16.840.1.113883.99.9&ISO ^XX^^^30D0999999																											
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**Parsed Reporting (SN) Ordinal Values with Interpretation Example**

Field	Field Name	Value																																	
OBX-24	Resulting Organization Address [XAD]	999&MAIN BOULEVARD&UNIT 99^^SPRINGFIELD^IL^62701 ^USA																																	
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## Reporting (NM) Numeric Results with Interpretation

Reporting Ordinal Values with Interpretation (NM)							
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OBX Set Identifier	R	<none>	OBX-1	SI	Use default OBX field population rules		
Observation Type	R	0125	OBX-2	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>NM</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL70125 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	NM
Accepted Value							
NM							
Observation Identifier	R		OBX-3	CWE	Use default OBX field population rules		
Observation Sub-ID	C		OBX-4	ST	Use default field population rules		
Observation Value (Results)	RE	<none>	OBX-5	NM	Result shall be reported as a numeric value		
Units	R	PH_UnitsOfMeasure_UCUM	OBX-6	CE	Use default OBX field population rules		
Identifier	R	PHVS_UnitsOfMeasureVolume_UCUM	OBX-6.1	ST			
Text	R	<none>	OBX-6.2	ST			
Name of Coding System	R	0396	OBX-6.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>UCUM</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	UCUM
Accepted Value							
UCUM							
Reference Range	O	<none>	OBX-7	ST	Use default OBX field population rules		
Abnormal Flags	O	0078	OBX-8	CWE	Use default OBX field population rules		
Observation Result Status (I.e. preliminary, final)	RE	0085	OBX-11	ID	Use default OBX field population rules		
Observation Date/Time	R	<none>	OBX-14	TS	Use default OBX field population rules		



Reporting Ordinal Values with Interpretation (NM)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Producer's Reference	C	<none>	OBX-15	CWE	Use default OBX field population rules
Observation Method	C	<none>	OBX-17	CWE	Use default OBX field population rules
Resulting Organization Name	R	<none>	OBX-23	XON	Use default OBX field population rules
Resulting Organization Address	R	<none>	OBX-24	XAD	Use default OBX field population rules

Reporting (NM) Numeric Results with Interpretation Example:

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OBX|3|NM|48159-8^HEPATITIS C VIRUS
ABSIGNAL/CUTOFF:RELACNC:PT:SER/PLAS:QN:EIA^LN||31.8
|{Copies}/mL^Copies per Milliliter^UCUM|^0^0.990000|H^High^HL70078||
|F|||20150510161500-0500|||20151003083100-0500|||
|CENTRAL MEDICAL CENTER LABORATORY^^^^
^CLIA&2.16.840.1.113883.9.9&ISO^XX^^^07D0099999
|100&Central Street^^Anytown^NH^03999^USA
```

Parsed Reporting (NM) Numeric Results with Interpretation Example:

Parsed Reporting Ordinal Values with Interpretation (NM) Example															
Field	Field Name	Value													
OBX-1	OBX Set Identifier [SI]	3													
OBX-2	Value Type [ID]	NM													
OBX-3	Observation Identifier [CWE]	48159-8^HEPATITIS C VIRUS ABSIGNAL/CUTOFF:RELACNC:PT:SER/PLAS:QN:EIA^LN <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-3.1</td> <td>Lab Order Code [ST]</td> <td>48159-8</td> </tr> <tr> <td>OBX-3.2</td> <td>Lab Order Code Description [ST]</td> <td>HEPATITIS C VIRUS ABSIGNAL/CUTOFF: RELACNC:PT:SER/PLAS: QN:EIA</td> </tr> <tr> <td>OBX-3.3</td> <td>Lab Order Coding System [ID]</td> <td>LN</td> </tr> </tbody> </table>		Field	Field Name	Value	OBX-3.1	Lab Order Code [ST]	48159-8	OBX-3.2	Lab Order Code Description [ST]	HEPATITIS C VIRUS ABSIGNAL/CUTOFF: RELACNC:PT:SER/PLAS: QN:EIA	OBX-3.3	Lab Order Coding System [ID]	LN
Field	Field Name	Value													
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OBX-3.2	Lab Order Code Description [ST]	HEPATITIS C VIRUS ABSIGNAL/CUTOFF: RELACNC:PT:SER/PLAS: QN:EIA													
OBX-3.3	Lab Order Coding System [ID]	LN													
OBX-5	Observation Value (Results) [NM]	31.8													
OBX-6	Observation Units [CWE]	{Copies}/mL^Copies per Milliliter^UCUM <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-6.1</td> <td>Observation Units Identifier [ST]</td> <td>{Copies}/mL</td> </tr> <tr> <td>OBX-6.2</td> <td>Observation Units Text [ST]</td> <td>Copies per Milliliter</td> </tr> <tr> <td>OBX-6.3</td> <td>Name of Observation Units Coding System [ID]</td> <td>UCUM</td> </tr> </tbody> </table>		Field	Field Name	Value	OBX-6.1	Observation Units Identifier [ST]	{Copies}/mL	OBX-6.2	Observation Units Text [ST]	Copies per Milliliter	OBX-6.3	Name of Observation Units Coding System [ID]	UCUM
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OBX-6.3	Name of Observation Units Coding System [ID]	UCUM													
OBX-7	Reference Range [ST]	^0^0.990000													
OBX-8	Abnormal Flag [CWE]	H^High^HL70078 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-8.1</td> <td>Abnormal Flag Code [ST]</td> <td>H</td> </tr> <tr> <td>OBX-8.2</td> <td>Abnormal Flag Code Description [ST]</td> <td>High</td> </tr> <tr> <td>OBX-8.3</td> <td>Abnormal Flag Coding System [ID]</td> <td>HL70078</td> </tr> </tbody> </table>		Field	Field Name	Value	OBX-8.1	Abnormal Flag Code [ST]	H	OBX-8.2	Abnormal Flag Code Description [ST]	High	OBX-8.3	Abnormal Flag Coding System [ID]	HL70078
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Parsed Reporting Ordinal Values with Interpretation (NM) Example																		
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OBX-14	Observation Date/Time [TS]	20150510161500-0005 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0500
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OBX-17	Observation Method [CWE]	<empty>																
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		OBX-23.6	Resulting Organization Assigning Authority [HD]	CLIA&2.16.840.1.113883.9.9&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Assigning Authority Coding System [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority ID [ST]</td> <td>2.16.840.1.113883.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Assigning Authority Name [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA	OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.9.9	OBX-23.6.3	Assigning Authority Name [ID]	ISO
		Field	Field Name	Value												
OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA														
OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.9.9														
OBX-23.6.3	Assigning Authority Name [ID]	ISO														
OBX-23.7	Resulting Organization Identifier Type Code [ID]	XX														
OBX-23.10	Resulting Organization Identifier [ST]	07D0099999														
OBX-24	Resulting Organization Address [XAD]	100 Central Street^^Anytown^NH^03999^USA														
		OBX-24.1	Resulting Organization Street Address [SAD]	100&Central Street <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>Central Street</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1.1	House Number [ST]	100	OBX-24.1.2	Street Name [ST]	Central Street			
		Field	Field Name	Value												
		OBX-24.1.1	House Number [ST]	100												
		OBX-24.1.2	Street Name [ST]	Central Street												
		OBX-24.3	Resulting Organization Town [ST]	Anytown												
		OBX-24.4	Resulting Organization State [ST]	NH												
		OBX-24.5	Resulting Organization Zip Code [ST]	03999												
OBX-24.6	Resulting Organization Country [ID]	USA														

## Reporting (SN) Numerical Intervals, Ratios, Inequalities

Reporting Ordinal Values with Interpretation (SN)												
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction							
OBX Set Identifier	R	<none>	OBX-1	SI	Use default OBX field population rules							
Observation Type	R	0125	OBX-2	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>SN</td> </tr> </tbody> </table> <p><b>NOTE:</b> The complete list of HL70125 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and at <a href="https://phinivads.cdc.gov">https://phinivads.cdc.gov</a></p>	Accepted Value	SN					
Accepted Value												
SN												
Observation Identifier	R		OBX-3	CWE	Use default OBX field population rules							
Observation Sub-ID	C		OBX-4	ST	Use default OBX field population rules							
Observation Value (Results)	RE	<none>	OBX-5	SN	Ordinal result shall be reported as a structured numeric value							
Observation Value Comparator	RE	<none>	OBX-5.1	ST	<p>SHALL contain one of the following values when populated</p> <table border="1"> <thead> <tr> <th>Accepted Values</th> </tr> </thead> <tbody> <tr> <td>&gt;</td> </tr> <tr> <td>&lt;</td> </tr> <tr> <td>&gt;=</td> </tr> <tr> <td>&lt;=</td> </tr> <tr> <td>=</td> </tr> <tr> <td>&lt;&gt;</td> </tr> </tbody> </table> <p><b>NOTE:</b> This component defaults to "=" if empty.</p>	Accepted Values	>	<	>=	<=	=	<>
Accepted Values												
>												
<												
>=												
<=												
=												
<>												
Observation Value Number1	RE	<none>	OBX-5.2	NM	The Number can consist of an optional leading sign (+ or -), the digits, and an optional decimal point.							
Observation Value Separator/Suffix	RE	0396	OBX-5.3	ST	<p>The Number can consist of an optional leading sign (+ or -), the digits, and an optional decimal point.</p> <p><b>NOTE:</b> The complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>							

Reporting Ordinal Values with Interpretation (SN)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Observation Value Number2	RE	<none>	OBX-5.4	NM	The Number can consist of an optional leading sign (+ or -), the digits, and an optional decimal point.
Units	R	PH_UnitsOfMeasure_UCUM	OBX-6	CWE	Field must be empty
Reference Range	R	<none>	OBX-7	ST	Use default OBX field population rules
Abnormal Flags	O	0078	OBX-8	CWE	Use default OBX field population rules
Observation Result Status (I.e. preliminary, final)	RE	0085	OBX-11	ID	Use default OBX field population rules
Observation Date/Time	R	<none>	OBX-14	TS	Use default OBX field population rules
Producer's Reference	C	<none>	OBX-15	CWE	Use default OBX field population rules
Resulting Organization Name	R	<none>	OBX-23	XON	Use default OBX field population rules
Observation Method	C	<none>	OBX-17	CWE	Use default OBX field population rules
Resulting Organization Address	R	<none>	OBX-24	XAD	Use default OBX field population rules

*Reporting (SN) Numerical Intervals, Ratios, Inequalities Example:*

```
OBX|4|SN|5307-4^Rocky Mt Spotted Fever IgG^LN||^1^:^64|{titer}^<1:64^UCUM
|A^ABNORMAL^HL70078|||F|||20150510232000-0500|||
|20150511071620-0500|||CENTRAL MEDICAL CENTER LABORATORY^^^^
^CLIA&2.16.840.1.113883.99.9&ISO^XX^^^30D0999999
|100&Central Street^^Anytown^NH^03999^USA
```

*Parsed Reporting (SN) Numerical Intervals, Ratios, Inequalities Example:*

Parsed Reporting Ordinal Values with Interpretation (SN) Example				
Field	Field Name	Value		
OBX-1	OBX Set Identifier [SI]	4		
OBX-2	Value Type [ID]	SN		
OBX-3	Observation Identifier [CWE]	5307-4^Rocky Mt Spotted Fever IgG^LN		
		OBX-3.1	Standard Results Code [ST]	5307-4
		OBX-3.2	Lab Order Code Description [ST]	Rocky Mt Spotted Fever IgG
		OBX-3.3	Lab Order Coding System [ID]	LN
OBX-5	Observation Value (Results) [SN]	^1^:^64		
		OBX-5.2	Observation Value Number 1 [NM]	1
		OBX-5.3	Observation Value Separator/Suffix [ST]	:
		OBX-5.4	Observation Value Number 2 [NM]	64
OBX-6	Observation Units [CWE]	{titer}^<1:64^UCUM		
		OBX-6.1	Observation Units Identifier [ST]	{titer}
		OBX-6.2	Observation Units Text [ST]	<1:64
		OBX-6.3	Name of Observation Units Coding System [ID]	UCUM
OBX-7	Reference Range [ST]	<1:64		

Parsed Reporting Ordinal Values with Interpretation (SN) Example																		
Field	Field Name	Value																
OBX-8	Abnormal Flag [CWE]	A^ABNORMAL^HL70078																
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-8.1</td> <td>Abnormal Flag Code [ST]</td> <td>A</td> </tr> <tr> <td>OBX-8.2</td> <td>Abnormal Flag Code Description [ST]</td> <td>ABNORMAL</td> </tr> <tr> <td>OBX-8.3</td> <td>Abnormal Flag Coding System [ID]</td> <td>HL70078</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-8.1	Abnormal Flag Code [ST]	A	OBX-8.2	Abnormal Flag Code Description [ST]	ABNORMAL	OBX-8.3	Abnormal Flag Coding System [ID]	HL70078				
		Field	Field Name	Value														
		OBX-8.1	Abnormal Flag Code [ST]	A														
OBX-8.2	Abnormal Flag Code Description [ST]	ABNORMAL																
OBX-8.3	Abnormal Flag Coding System [ID]	HL70078																
OBX-11	Observation Result Status [ID]	F																
OBX-14	Observation Date/Time [TS]	20150510232000-0500																
		<table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>23</td> </tr> <tr> <td>Minutes</td> <td>20</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	23	Minutes	20	Seconds	00	GMT Offset	0500
		Field Name	Value															
		Year	2015															
		Month	05															
		Day	10															
		Hour	23															
		Minutes	20															
Seconds	00																	
GMT Offset	0500																	
OBX-15	Producer's Reference [CWE]	<empty>																
OBX-17	Observation Method [CWE]	<empty>																
OBX-19	Date/Time of the Analysis [TS]	20150511071620-0500																
		<table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>11</td> </tr> <tr> <td>Hour</td> <td>07</td> </tr> <tr> <td>Minutes</td> <td>16</td> </tr> <tr> <td>Seconds</td> <td>20</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	11	Hour	07	Minutes	16	Seconds	20	GMT Offset	0500
		Field Name	Value															
		Year	2015															
		Month	05															
		Day	11															
		Hour	07															
		Minutes	16															
Seconds	20																	
GMT Offset	0500																	



Parsed Reporting Ordinal Values with Interpretation (SN) Example																																
Field	Field Name	Value																														
OBX-23	Resulting Organization Name [XON]	CENTRAL MEDICAL CENTER LABORATORY^^^^^ CLIA&2.16.840.1.113883.99.9.9&ISO^XX^^^30D0999999																														
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.1</td> <td>Resulting Organization Name [ST]</td> <td>CENTRAL MEDICAL CENTER LABORATORY</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.1	Resulting Organization Name [ST]	CENTRAL MEDICAL CENTER LABORATORY																								
		Field	Field Name	Value																												
		OBX-23.1	Resulting Organization Name [ST]	CENTRAL MEDICAL CENTER LABORATORY																												
		OBX-23.6	Assigning Authority [HD]	CLIA&2.16.840.1.113883.99.9.9 &ISO																												
				<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Assigning Authority Coding System [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Assigning Authority Name [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA	OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.99.9.9	OBX-23.6.3	Assigning Authority Name [ID]	ISO																
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OBX-23.6.1	Assigning Authority Coding System [IS]	CLIA																														
OBX-23.6.2	Assigning Authority ID [ST]	2.16.840.1.113883.99.9.9																														
OBX-23.6.3	Assigning Authority Name [ID]	ISO																														
OBX-23.7	Identifier Type Code [ID]	XX																														
OBX-23.10	Resulting Organization Identifier [ST]	30D0999999																														
OBX-24	Resulting Organization Address [XAD]	100&Central Street^^Anytown^NH^03999^USA																														
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		Field	Field Name	Value																												
		OBX-24.1	Resulting Organization Street Address [SAD]	100&Central Street																												
				<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>Central Street</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1.1	House Number [ST]	100	OBX-24.1.2	Street Name [ST]	Central Street																			
		Field	Field Name	Value																												
		OBX-24.1.1	House Number [ST]	100																												
		OBX-24.1.2	Street Name [ST]	Central Street																												
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OBX-24.5	Resulting Facility Zip Code [ST]	03999																														
OBX-24.6	Resulting Organization Country [ID]	USA																														

## Reporting (CWE) Patient Occupation

A special OBX segment needs to be included with all lead test reports for patients aged 16 years and older. This special segment shall be considered required or empty in recognition that not all laboratories will have information on the patient's occupation. For those laboratories that do possess patient occupation information, you must submit this special OBX segment as part of the laboratory results.

Reporting (CWE) Patient Occupation							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
OBX Set Identifier	R	<none>	OBX-1	SI	Set ID number indicating a distinct demographic observation code and result		
Value Type	R	0125	OBX-2	ID	The following literal value will be accepted: <table border="1" data-bbox="1040 695 1458 758"> <tr> <th>Accepted Value</th> </tr> <tr> <td>CWE</td> </tr> </table> <p><b>NOTE:</b> Complete list of HL7 0125 codes is available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	CWE
Accepted Value							
CWE							
Observation Identifier	R	<none>	OBX-3	CWE	Occupation observation codes		
Lab Order Code	R	<none>	OBX-3.1	ST	The following literal value will be accepted: <table border="1" data-bbox="1040 1045 1419 1108"> <tr> <th>Accepted Value</th> </tr> <tr> <td>74287-4</td> </tr> </table> <p><b>NOTE:</b> As of the creation of this document, the complete list of LOINC codes was available at <a href="https://loinc.org/">https://loinc.org/</a></p>	Accepted Value	74287-4
Accepted Value							
74287-4							
Lab Order Code Description	R	<none>	OBX-3.2	ST	The following literal value will be accepted: <table border="1" data-bbox="1040 1352 1419 1415"> <tr> <th>Accepted Value</th> </tr> <tr> <td>Occupation [NTDS]</td> </tr> </table> <p>LOINC code description corresponding to code 74287-4</p>	Accepted Value	Occupation [NTDS]
Accepted Value							
Occupation [NTDS]							
Lab Order Coding System	R	0396	OBX-3.3	ID	The following literal value will be accepted: <table border="1" data-bbox="1040 1591 1419 1654"> <tr> <th>Accepted Value</th> </tr> <tr> <td>LN</td> </tr> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	LN
Accepted Value							
LN							
Observation Sub-ID	C		OBX-4	ST	Use default field population rules		

Reporting (CWE) Patient Occupation								
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction			
<b>Observation Value (Occupation Value)</b>	RE	<none>	OBX-5	CWE	Occupation Values			
Census 2010 Occupation Code	RE	PHVS_Industry_CDC_Census2010	OBX-5.1	ST	Census 2010 occupation code associated with the patient's occupation.  <b>NOTE:</b> "PHVS_Industry_CDC_Census2010" codes are available at <a href="https://phinvads.cdc.gov/">https://phinvads.cdc.gov/</a>			
Census 2010 Occupation Preferred Concept Name	RE	<none>	OBX-5.2	ST	Text description of the value selected for field OBX-5.1			
Census 2010 Code Set Name	RE	0396	OBX-5.3	ID	Only the following codes will be accepted: <table border="1" data-bbox="1040 743 1419 835"> <thead> <tr> <th>Accepted Values</th> </tr> </thead> <tbody> <tr> <td>PHVS_Industry_CDC_Census2010</td> </tr> <tr> <td>CDCPHINVS</td> </tr> </tbody> </table> <b>NOTE:</b> This field may contain 'PHVS_Industry_CDC_Census2010' even though this value does not exist within HL70396. <b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a>	Accepted Values	PHVS_Industry_CDC_Census2010	CDCPHINVS
Accepted Values								
PHVS_Industry_CDC_Census2010								
CDCPHINVS								
Job Title	RE	<none>	OBX-5.9	ST	Shall return the patient's job title			
<b>Units</b>	R	PH_UnitsOfMeasure_UCUM	OBX-6	CWE	Field must be empty			
<b>Reference Range</b>	R	<none>	OBX-7	ST	Field is not supported			
<b>Abnormal Flags</b>	R	0078	OBX-8	ST	Field is not supported			
<b>Observation Result Status</b>	R	0085	OBX-11	ID	Field is not supported			
<b>Observation Date/Time</b>	R	<none>	OBX-14	TS	Field is not supported			
<b>Producer's Reference</b>	R	<none>	OBX-15	CWE	Field is not supported			
<b>Observation Method</b>	C	<none>	OBX-17	CWE	Field is not supported			
<b>Resulting Organization Name</b>	R	<none>	OBX-23	XON	Field is not supported			
<b>Resulting Organization Address</b>	R	<none>	OBX-24	XAD	Field is not supported			

Reporting (CWE) Patient Occupation Example:

OBX | 5 | CWE | 74287-4 ^ OCCUPATION [NTDS ^ LN | | 7280 ^ ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES [7280] ^ PHVS\_INDUSTRY\_CDC\_CENSUS2010 ^ ^ ^ ^ ^ ^ ACCOUNTANT

Parsed Reporting (CWE) Patient Occupation Example:

Field	Field Name	Value															
OBX-1	OBX Set Identifier [SI]	5															
OBX-2	Value Type [ID]	CWE															
OBX-3	Observation Identifier [CWE]	74287-4 ^ OCCUPATION [NTDS] ^ LN															
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-3.1</td> <td>Lab Order Code [ST]</td> <td>74287-4</td> </tr> <tr> <td>OBX-3.2</td> <td>Lab Order Code Description [ST]</td> <td>OCCUPATION [NTDS]</td> </tr> <tr> <td>OBX-3.3</td> <td>Lab Order Coding System [ID]</td> <td>LN</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-3.1	Lab Order Code [ST]	74287-4	OBX-3.2	Lab Order Code Description [ST]	OCCUPATION [NTDS]	OBX-3.3	Lab Order Coding System [ID]	LN			
		Field	Field Name	Value													
		OBX-3.1	Lab Order Code [ST]	74287-4													
OBX-3.2	Lab Order Code Description [ST]	OCCUPATION [NTDS]															
OBX-3.3	Lab Order Coding System [ID]	LN															
OBX-5	Observation Value (Results) [CWE]	7280 ^ ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES [7280] ^ PHVS_INDUSTRY_CDC_CENSUS2010 ^ ^ ^ ^ ^ ^ ACCOUNTANT															
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-5.1</td> <td>Standard Results Code [ST]</td> <td>7280</td> </tr> <tr> <td>OBX-5.2</td> <td>Standard Text [ST]</td> <td>ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES [7280]</td> </tr> <tr> <td>OBX-5.3</td> <td>Name of Standard Coding System [ID]</td> <td>PHVS_INDUSTRY_CDC_CENSUS2010</td> </tr> <tr> <td>OBX-5.9</td> <td>Original Text [ST]</td> <td>ACCOUNTANT</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-5.1	Standard Results Code [ST]	7280	OBX-5.2	Standard Text [ST]	ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES [7280]	OBX-5.3	Name of Standard Coding System [ID]	PHVS_INDUSTRY_CDC_CENSUS2010	OBX-5.9	Original Text [ST]	ACCOUNTANT
		Field	Field Name	Value													
		OBX-5.1	Standard Results Code [ST]	7280													
		OBX-5.2	Standard Text [ST]	ACCOUNTING, TAX PREPARATION, BOOKKEEPING, AND PAYROLL SERVICES [7280]													
OBX-5.3	Name of Standard Coding System [ID]	PHVS_INDUSTRY_CDC_CENSUS2010															
OBX-5.9	Original Text [ST]	ACCOUNTANT															
OBX-6	Units [CWE]	<empty>															
OBX-7	Reference Range [ST]	<empty>															
OBX-8	Abnormal Flags [CWE]	<empty>															
OBX-11	Observation Result Status [ID]	<empty>															
OBX-14	Observation Date/Time [TS]	<empty>															
OBX-15	Producer's Reference [CWE]	<empty>															
OBX-19	Date/Time of the Analysis [TS]	<empty>															
OBX-23	Resulting Organization Name [XON]	<empty>															
OBX-24	Resulting Organization Address [XAD]	<empty>															

## Reporting (TX) Patient Employer

New Hampshire law and rule require that a patient's employer must be reported for all lead test results, regardless of lead test results, when the patients is 16 years of age or older. This segment provides a mechanism for conveying employer information within the limits of an ORU message.

Reporting (TX) Patient Employer							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
OBX Set Identifier	R	<none>	OBX-1	SI	Set ID number indicating a distinct demographic observation code and result		
Value Type	R	0125	OBX-2	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>TX</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70125 codes are available at <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a> and <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a></p>	Accepted Value	TX
Accepted Value							
TX							
Observation Identifier	R	<none>	OBX-3	CWE	Employer observation codes		
Lab Order Code	R	<none>	OBX-3.1	ST	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>80427-8</td> </tr> </tbody> </table> <p><b>NOTE:</b> LOINC codes are available at <a href="https://loinc.org/">https://loinc.org/</a></p>	Accepted Value	80427-8
Accepted Value							
80427-8							
Lab Order Code Description	R	<none>	OBX-3.2	ST	<p>The following literal value will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>EMPLOYER NAME [IDENTIFIER]</td> </tr> </tbody> </table> <p><b>NOTE:</b> This is the LOINC code description corresponding to code 80427-8</p>	Accepted Value	EMPLOYER NAME [IDENTIFIER]
Accepted Value							
EMPLOYER NAME [IDENTIFIER]							
Lab Order Coding System	R	0396	OBX-3.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>LN</td> </tr> </tbody> </table> <p><b>NOTE:</b> HL70396 codes are available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	LN
Accepted Value							
LN							
Observation Sub-ID	C		OBX-4	ST	Use default field population rules		
Observation Value (Employer Value)	R	<none>	OBX-5	TX	Shall provide the patient's employer name		

Reporting (TX) Patient Employer					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Units	R	PH_UnitsOfMeasure_UCUM	OBX-6	CWE	Field is not supported
Reference Range	R	<none>	OBX-7	ST	Field is not supported
Abnormal Flags	R	0078	OBX-8	ST	Field is not supported
Observation Result Status	R	0085	OBX-11	ID	Field is not supported
Observation Date/Time	R	<none>	OBX-14	TS	Field is not supported
Observation Method	C	<none>	OBX-17	CWE	Field is not supported
Producer's Reference	R	<none>	OBX-15	CWE	Field is not supported
Resulting Organization Name	R	<none>	OBX-23	XON	Field is not supported
Resulting Organization Address	R	<none>	OBX-24	XAD	Field is not supported

Reporting (TX) Patient Employer Example:

OBX|6|TX|80427-8^EMPLOYER NAME [IDENTIFIER^LN||JQP PLUMBING AND HEATING, LLC

Parsed (TX) Reporting Patient Employer Example:

Field	Field Name	Value												
OBX-1	OBX Set Identifier [SI]	6												
OBX-2	Value Type [ID]	TX												
OBX-3	Observation Identifier [CWE]	80427-8^EMPLOYER NAME [IDENTIFIER]^LN												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-3.1</td> <td>Standard Results Code [ST]</td> <td>80427-8</td> </tr> <tr> <td>OBX-3.2</td> <td>Standard Text [ST]</td> <td>EMPLOYER NAME [IDENTIFIER]</td> </tr> <tr> <td>OBX-3.3</td> <td>Name of Standard Coding System [ID]</td> <td>LN</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-3.1	Standard Results Code [ST]	80427-8	OBX-3.2	Standard Text [ST]	EMPLOYER NAME [IDENTIFIER]	OBX-3.3	Name of Standard Coding System [ID]	LN
		Field	Field Name	Value										
		OBX-3.1	Standard Results Code [ST]	80427-8										
OBX-3.2	Standard Text [ST]	EMPLOYER NAME [IDENTIFIER]												
OBX-3.3	Name of Standard Coding System [ID]	LN												
OBX-5	Observation Value (Results) [CWE]	JQP PLUMBING AND HEATING, LLC^^^^^^^PLUMBER												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-5.1</td> <td>Standard Results Code [ST]</td> <td>JQP PLUMBING AND HEATING, LLC</td> </tr> <tr> <td>OBX-5.9</td> <td>Standard Text [ST]</td> <td>PLUMBER</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-5.1	Standard Results Code [ST]	JQP PLUMBING AND HEATING, LLC	OBX-5.9	Standard Text [ST]	PLUMBER			
		Field	Field Name	Value										
OBX-5.1	Standard Results Code [ST]	JQP PLUMBING AND HEATING, LLC												
OBX-5.9	Standard Text [ST]	PLUMBER												
OBX-6	Units [CWE]	<empty>												
OBX-7	Reference Range [ST]	<empty>												
OBX-8	Abnormal Flags [CWE]	<empty>												
OBX-11	Observation Result Status [ID]	<empty>												
OBX-14	Observation Date/Time [TS]	<empty>												
OBX-15	Producer's Reference [CWE]	<empty>												
OBX-19	Date/Time of the Analysis [TS]	<empty>												
OBX-23	Resulting Organization Name [XON]	<empty>												
OBX-24	Resulting Organization Address [XAD]	<empty>												

### Observation Notes and Comments Segment (NTE)

The NTE segment is commonly used for sending notes and comments.

Notes And Comments Segment (NTE Segment)													
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction								
<b>Note Set ID</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>NTE-1</b>	<b>SI</b>	For the first repeat of the NTE segment, the sequence number shall be one (1), for the second repeat, the sequence number shall be two (2), etc.								
<b>Source of Comment</b>	<b>RE</b>	<b>0105 / PHVS_SourceOfComment_HL7_2x</b>	<b>NTE-2</b>	<b>ID</b>	<p>Only the following codes will be accepted:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">C ode</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">L</td> <td>Ancillary (filler) department is source of comment</td> </tr> <tr> <td style="text-align: center;">P</td> <td>Orderer (placer) is source of comment</td> </tr> <tr> <td style="text-align: center;">O</td> <td>Other system is source of comment</td> </tr> </tbody> </table> <p><b>NOTE:</b> Table HL70105 / PHVS_SourceOfComment_HL7_2x is available through <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	C ode	Description	L	Ancillary (filler) department is source of comment	P	Orderer (placer) is source of comment	O	Other system is source of comment
C ode	Description												
L	Ancillary (filler) department is source of comment												
P	Orderer (placer) is source of comment												
O	Other system is source of comment												
<b>Comment</b>	<b>R</b>	<b>&lt;none&gt;</b>	<b>NTE-3</b>	<b>FT</b>	Every NTE-3 field must contain a value of 1 character or greater								



**Observation Notes and Comments Segment Example #1:**

NTE|1|L|PRESUMPTIVELY DETECTED. SENT TO MAYO FOR WESTERN BLOT

**Parsed Observation Notes and Comments Segment Example #1:**

Field	Field Name	Value
NTE-1	Note Set ID [SI]	1
NTE-2	Source of Comment [ID]	L
NTE-3	Comment [ST]	PRESUMPTIVELY DETECTED. SENT TO MAYO FOR WESTERN BLOT

**Observation Notes and Comments Segment Example #2**

NTE|2|L|POSITIVE HBSAG VERIFIED BY ALGORITHM COUPLED WITH SCREENING INDEX

**Parsed Observation Notes and Comments Segment Example #2:**

Field	Field Name	Value
NTE-1	Note Set ID [SI]	2
NTE-2	Source of Comment [ID]	L
NTE-3	Comment [ST]	POSITIVE HBSAG VERIFIED BY ALGORITHM COUPLED WITH SCREENING INDEX

### Specimen Segment (SPM)

The intent of this segment is to describe the characteristics of a single specimen. It differs from the intent of specimen information contained within the OBR segment in that the OBR conveys order-specific details and does not have places to capture additional important information about a specimen.

Specimen Segment (SPM)					
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction
Specimen Set Identifier	R	<none>	SPM-1	SI	For the first instance of the SPM segment shall be numbered 1, the second instance of an SPM segment shall be numbered 2 etc.
Specimen ID / Lab Accession Number	R	<none>	SPM-2	EIP	A unique identifier assigned to the specimen upon receipt by the laboratory
Placer Assigned Identifier	R	<none>	SPM-2.1	EI	<b>NOTE:</b> SPM-2.1 must contain the same value as OBR-3.1
Entity Identifier	R	<none>	SPM-2.1.1	ST	Placer Specimen ID / Lab Accession Number
Namespace ID	R	<none>	SPM-2.1.2	IS	Name of system used to generate the placer specimen ID/accession number
Universal ID	R	<none>	SPM-2.1.3	ST	Code value assigned to the system used to generate the placer specimen ID /accession number
Universal ID Type	R	0301	SPM-2.1.4	ID	Coding system used to define the value in SPM-2.1.3  <b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a>
Filler Assigned Identifier	R	<none>	SPM-2.2	EI	
Entity Identifier	R	<none>	SPM-2.2.1	ST	Filler Specimen ID / Lab Accession Number
Namespace ID	R	<none>	SPM-2.2.2	IS	Name of system used to generate the filler specimen ID/accession number
Universal ID	R	<none>	SPM-2.2.3	ST	Code value assigned to the system used to generate the filler specimen ID /accession number

Specimen Segment (SPM)													
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction								
Universal ID Type	R	0301	SPM-2.2.4	ID	<p>Coding system used to define the value in SPM-2.2.3</p> <p><b>NOTE:</b> HL70301 codes are available at <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>								
Specimen Type/Site	R	<none>	SPM-4	CWE	<p><b>NOTE:</b> Field conveys the same information as optional field OBR-15 when it is populated</p>								
Identifier	R	0487 / PHVS_Specimen_CDC / PHVS_SpecimenType_HL7_2x / SNOMED CT	SPM-4.1	ST	<p>Any values from HL70487, SNOMED CT Specimen sub-tree (12303009) / PHVS_Specimen_CDC , or PHVS_SpecimenType_HL7_2x may be used</p> <p><b>NOTE:</b> Reference tables (1) PHVS_Specimen_CDC, (2) PHVS_SpecimenType_HL7_2x (3) HL70487 are available at <a href="https://phinvads.cdc.gov/">https://phinvads.cdc.gov/</a></p> <p><b>NOTE:</b> SNOMED CT Specimen sub-tree (12303009) contents are available within table PHVS_Specimen_CDC</p> <p>The following codes should be used with blood lead test results</p> <table border="1"> <thead> <tr> <th colspan="2">Accepted Values for Lead Tests</th> </tr> <tr> <th>SCT Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>122555007</td> <td>Venous blood specimen (specimen)</td> </tr> <tr> <td>122554006</td> <td>Capillary blood specimen (specimen)</td> </tr> </tbody> </table>	Accepted Values for Lead Tests		SCT Code	Description	122555007	Venous blood specimen (specimen)	122554006	Capillary blood specimen (specimen)
Accepted Values for Lead Tests													
SCT Code	Description												
122555007	Venous blood specimen (specimen)												
122554006	Capillary blood specimen (specimen)												
Text	R	<none>	SPM-4.2	ST	Text description of specimen site/type								

Specimen Segment (SPM)								
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction			
Name of Coding System	R	0396	SPM-4.3	ID	Acceptable entries are restricted to the following values: <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>HL70487</td> </tr> <tr> <td>SCT</td> </tr> </tbody> </table> <b>NOTE:</b> Complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a>	Accepted Value	HL70487	SCT
Accepted Value								
HL70487								
SCT								
Specimen Collection Method	RE		SPM-7	CWE				

Specimen Segment (SPM)										
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction					
Identifier	RE	0488 / PH_SpecimenCollectionMethod_HL7_2x	SPM-7.1	ST	<b>Code</b>	<b>Description</b>				
					FNA	Aspiration, Fine Needle				
					PNA	Arterial puncture				
					BIO	Biopsy				
					BCAE	Blood Culture, Aerobic Bottle				
					BCAN	Blood Culture, Anaerobic Bottle				
					BCPD	Blood Culture, Pediatric Bottle				
					CAP	Capillary Specimen				
					CATH	Catheterized				
					EPLA	Environmental, Plate				
					ESWA	Environmental, Swab				
					LNA	Line, Arterial				
					CVP	Line, CVP				
					LNV	Line, Venous				
					MARTL	Martin-Lewis Agar				
					ML11	Mod. Martin-Lewis agar				
					PACE	Pace, Gen-Probe				
					PIN	Pinworm Prep				
					KOFFP	Plate, Cough				
					MLP	Plate, Martin-Lewis				
					NYP	Plate, New York City				
					TMP	Plate, Thayer-Martin				
					ANP	Plates, Anaerobic				
					BAP	Plates, Blood Agar				
					PRIME	Pump Prime				
					PUMP	Pump Specimen				
					QC5	Micro Quality Control				
					SCLP	Scalp, Fetal Vein				
					SCRAPS	Scrapings				
					SHA	Shaving				
					SWA	Swab				
					SWD	Swab, Dacron tipped				
					WOOD	Swab, Wooden Shaft				
					TMOT	Transport Media				
					TMAN	Transport Media, Anaerobic				
					TMCH	Transport Media, Chlamydia				
					TMM4	Transport Media, M4				
					TMMY	Transport Media, Mycoplasma				
					TMPV	Transport Media, PVA				
					TMSC	Transport Media, Stool Culture				
					TMUP	Transport Media, Ureaplasma				
					TMVI	Transport Media, Viral				
					VENIP	Venipuncture				
					<b>NOTE:</b> Table 0488 / PH_SpecimenCollectionMethod_HL7_2x is available through <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a>					

Specimen Segment (SPM)											
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction						
Text	RE		SPM-7.2	ST	Text description associated with code used in SPM-7.1						
Name of Coding System	RE	0396	SPM-7.3	ID	<p>The following literal values will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>HL70488</td> </tr> </tbody> </table> <p><b>NOTE:</b> Complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	HL70488				
Accepted Value											
HL70488											
Specimen Source Site	RE	<none>	SPM-8	CWE	<p>Physical location for environmental specimens, anatomical site for biological specimens</p> <p><b>NOTE:</b> Field conveys the same information OBR-15.1.1</p>						
Specimen Source Site Identifier	RE	PHVS_BodySite_HITSP	SPM-8.1	ST	<p>PHVS_BodySite_HITSP contains values collected from the following SNOMED CT domains</p> <table border="1"> <thead> <tr> <th>SNOMED CT Domains</th> </tr> </thead> <tbody> <tr> <td>Anatomical Structure (91723000) hierarchy</td> </tr> <tr> <td>Acquired body structure (body structure) (280115004)</td> </tr> <tr> <td>Anatomical site notations for tumor staging (body structure) (258331007)</td> </tr> <tr> <td>Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008)</td> </tr> <tr> <td>Physical anatomical entity (body structure) (91722005)</td> </tr> </tbody> </table> <p><b>NOTE:</b> Table PHVS_BodySite_HITSP is available through <a href="https://phinvads.cdc.gov">https://phinvads.cdc.gov</a> and <a href="http://hl7v2-elr-testing.nist.gov/mu-elr/">http://hl7v2-elr-testing.nist.gov/mu-elr/</a></p>	SNOMED CT Domains	Anatomical Structure (91723000) hierarchy	Acquired body structure (body structure) (280115004)	Anatomical site notations for tumor staging (body structure) (258331007)	Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008)	Physical anatomical entity (body structure) (91722005)
SNOMED CT Domains											
Anatomical Structure (91723000) hierarchy											
Acquired body structure (body structure) (280115004)											
Anatomical site notations for tumor staging (body structure) (258331007)											
Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008)											
Physical anatomical entity (body structure) (91722005)											
Specimen Source Site Text	RE	<none>	SPM-8.2	ST	<p>SNOMED preferred concept code text description</p> <p>Text description associated with code used in SPM-8.1</p>						

Specimen Segment (SPM)							
Data Field	Usage	Table Ref	HL7 Field	Data Type	Instruction		
Name of Specimen Source Site Coding System	RE	0396	SPM-8.3	ID	<p>Only the following code will be accepted:</p> <table border="1"> <thead> <tr> <th>Accepted Value</th> </tr> </thead> <tbody> <tr> <td>SCT</td> </tr> </tbody> </table> <p><b>NOTE:</b> Complete list of HL70396 codes is available at <a href="http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm">http://www.hl7.org/Special/committees/vocab/table_0396/index.cfm</a></p>	Accepted Value	SCT
Accepted Value							
SCT							
Specimen Collected Date/Time	R	<none>	SPM-17	DR	<p>Format: YYYYMMDDHHMMSS[+/-ZZZZ]</p> <p>SPM-17 conveys the same value as OBR-7 and OBX-14</p>		
Specimen Received Date/Time	R	<none>	SPM-18	TS	<p>Format: YYYYMMDDHHMMSS[+/-ZZZZ]</p>		

**Specimen Segment (SPM) Example:**

```
SPM|1|112574638999-EMRL&CENTRAL MEDICAL CENTER HOSPITAL&30D9999999
&CLIA^W4596020199999&SQ&2.16.840.1.113883.9.999&ISO|
|STL^STOOL = FECAL^HL70487||
|TMSC^Transport Media, Stool Culture^HL70488
|61268003^Gastrointestinal contents (substance)^SCT|||||
|20150510161500-0005|20150511201300-0005|
```

**Parsed Specimen Segment (SPM) Example:**

Field	Field Name	Value																																					
SPM-1	SPM Set Identifier [SI]	1																																					
SPM-2	Specimen ID / Lab Accession Number [EIP]	112574638999-EMRL&CENTRAL MEDICAL CENTER HOSPITAL &30D9999999&CLIA^W4596020199999&SQ &2.16.840.1.113883.9.999&ISO																																					
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SPM-7	Specimen Collection Method [CWE]	<p>TMSC^Transport Media, Stool Culture^HL70488</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-7.1</td> <td>Standard Results Code [ST]</td> <td>TMSC</td> </tr> <tr> <td>SPM-7.2</td> <td>Standard Text [ST]</td> <td>Transport Media, Stool Culture</td> </tr> <tr> <td>SPM-7.3</td> <td>Name of Standard Coding System [ID]</td> <td>HL70488</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-7.1	Standard Results Code [ST]	TMSC	SPM-7.2	Standard Text [ST]	Transport Media, Stool Culture	SPM-7.3	Name of Standard Coding System [ID]	HL70488				
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SPM-17	Specimen Collected Date/Time [TS]	<p>20150510161500-0005</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0005</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0005
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SPM-18	Specimen Received Date/Time [TS]	<p>20150511201300-0005</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>11</td> </tr> <tr> <td>Hour</td> <td>20</td> </tr> <tr> <td>Minutes</td> <td>13</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0005</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	11	Hour	20	Minutes	13	Seconds	00	GMT Offset	0005
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## APPENDICES

### APPENDIX I - Process for Establishing ELR Submission

This Appendix provides an overview of the process that will be used to establish ELR submission from a participating facility to NH DPHS. The following steps should be followed.

1. **REGISTER:** The NH Public Health Measure Registration Form for Meaningful Use should be completed and returned to NH DPHS: [DPHSmu@dhhs.state.nh.us](mailto:DPHSmu@dhhs.state.nh.us).
2. **PLACED IN ONBOARDING QUEUE:** Once NH DPHS receives the participating facility's information, the facility will be notified that they have been placed in a queue for onboarding with NH DPHS. Due to limited resources, we may not be able to work with your facility immediately when you are ready, however, we will try our best to accommodate your needs.
3. **PRIOR TO ONBOARDING:** The participating facility needs to complete the following activities prior to the start of onboarding with NH DPHS:
  - a. Evaluate the volume of reportable laboratory results performed at the laboratory.
  - b. Conduct a self-evaluation of ELR messages to determine whether changes are required to bring ELR messages into conformance with this guide to the DPHS. Changes shall be made as required to bring messages into conformance with this guide. **APPENDIX VI – Acceptable NIST Validation Tool Errors** outlines errors that may be ignored.
  - c. Implement processes to identify and submit only test results for reportable conditions to DPHS.
4. **TRANSPORT:** Set up connectivity with NH DPHS for secure, reliable message transport. All reporting facilities are subject to Transport Validation testing before any new transport mechanisms are implemented.
5. **INITIAL TESTING:** Once a submitting laboratory believes that they have the capacity to create messages that conform to this guide, they shall coordinate with DPHS for the delivery of a message set. Each message in the test set will be evaluated to independently confirm that each expected type of laboratory report conforms to this guide. Should issues be identified during this independent confirmation, the process shall be repeated until identified issues are resolved.
6. **TESTING:** Once test set message structure and content has been independently confirmed by NH DPHS, the participating laboratory will begin submitting live data to DPHS through a test connection. The live flow of messages will be used to populate test systems.
7. **PRODUCTION and PAPER:** Once a sufficient number of electronic laboratory results have been accepted through the test connection by DPHS without error, approval will be granted to promote the feed directly into the NH DPHS production connection. Paper laboratory results submissions will be required to confirm the completeness and accuracy of all electronic laboratory results messages received.
8. **PRODUCTION ONLY – ONBOARDING COMPLETE:** When NH DPHS verifies the electronic submission is consistent with paper reports, the participating facility will be advised to discontinue paper reporting and only send lab reports electronically.

9. **TECHNICAL ISSUES:** In the unlikely event that NH DPHS should experience technical issues with the electronic laboratory reporting infrastructure, the facility should expect to receive a request from NH DPHS to temporarily resume paper reporting. Paper reporting would only continue until the technical issue has been resolved. Though infrastructure problems are not expected, DPHS reserves the right to reinstate paper reporting to ensure that laboratories are able to comply with statutory reporting timetables.

## APPENDIX II - Data Feed Transport

This Appendix provides a list of supported transport technologies proven to securely and reliably transport electronic laboratory results to NH DPHS. If the sending facility has already established a secure reliable data transport for another NH DPHS system, there is a high likelihood that that same transport may be reused. For example, if a hospital is already submitting syndromic surveillance data that exact same transport could be reused for sending laboratory results.

There are several transport options available for communicating with NH DPHS. These include:

1. **VPN** – Virtual Private Network
2. **Rhapsody Connectors** – NH DPHS uses Rhapsody, a message broker developed by Orion Health, to receive HL7 messages. A submitting laboratory may use Orion’s Rhapsody Connector transport technology. This service includes an ONC certified secure reliable transport mechanism capable of delivering electronic messages to NH DPHS, including ELR messages.
3. **NH HIE** – The New Hampshire Health Information Exchange (HIE) as a service provided by the New Hampshire Health Information Organization (NH HIO) for exchanging information across NH’s health care delivery systems. This service includes an ONC certified secure reliable transport mechanism capable of delivering electronic messages to NH DPHS, including ELR messages.

## APPENDIX III - Sample Messages

This Appendix provides samples of the types of HL7 data messages that can be sent.

### One Test Result (Infectious Disease)

This sample of an HL7 message contains one test and one result for one disease. In this example there is only one OBR segment (lab order) and one OBX segment (test result) for this test.

```
MSH|^~\&#|EHR^2.16.840.1.114222.9.9.9999^ISO|MY LAB NAME^24D0404999^CLIA||
NH_DHHS^2.16.840.1.114222.4.1.3669^ISO|20160309064300-0400|
|ORU^R01^ORU_R01|2013051400301236392|P|2.5.1|||AL|AL|||PHLabReport-
Ack^^2.16.840.1.113883.9.11^ISO
PID|1||M10984682^^EHR&2.16.840.1.113883.99.9.9.9&ISO^MR
^A&2.16.840.1.113883.99.9.9.8&ISO||PUBLIC^JOHN^Q||19610530|M|
|2106-3^WHITE^CDCREC|99&MAIN ST&APT 3A^^NORTHSIDE^NH^03999^USA^^^33011|
|^603^5551213|||2186-5^NOT HISPANIC OR LATINO^CDCREC
ORC|RE||A6071081^CENTRAL MEDICAL CENTER HOSPITAL^30D9999999^CLIA|||
|^ORDERING^JANE^Q^^DR^MD|||CENTRAL MEDICAL CENTER HOSPITAL|10&ELM
AVE^^ANYTOWN^NH^03999-2515^USA|^603^5559999|10&ELM AVE&UNIT C^
^ANYTOWN^NH^03999-2515^USA
OBR|1||A6071081^CENTRAL MEDICAL CENTER HOSPITAL^30D9999999^CLIA|600-
7^Bacteria identified in Blood by Culture^LN||20160307155500-
0400|||^ORDERING^JANE^Q^^DR^MD|||20160309064100-0400|||F
OBX|1|CWE|600-7^Bacteria identified in Blood by Culture^LN|
|9861002^Streptococcus pneumoniae
(organism)^SCT^^^^^Positive||A^ABNORMAL^HL70078||F||20160307155500-
0400|30D0999999^CENTRAL LABORATORY SERVICES
CORP^CLIA|||20160307205300-0400|||GENERAL HOSPITAL REFERENCE
LAB^^^^^CLIA&2.16.840.1.113883.99.9.9&ISO^XX^^22D0099999|100&Central
Street^^Anytown^NH^03999
NTE|1|L|Positive
SPM|1|A6071081&CENTRAL MEDICAL CENTER
HOSPITAL&30D9999999&CLIA^1967582&SQ&EHR&L,M,N||119297000^Blood specimen
(specimen^SCT||CAP^CAPILLARY SPECIMEN^HL70488|281237008^Vascular
structure of upper limb^SCT|||20160307155500-0400|20160307160200-
0400
```

### Parsed Message

One Test Result (Infectious Disease)														
Field	Field Name	Value												
MSH-1	Field Separator [ST]													
MSH-2	Encoding Characters [ST]	^~\&#												
MSH-3	Sending Application [HD]	EHR^2.16.840.1.114222.9.9.9999^ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-3.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>MSH-3.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.114222.9.9.9999</td> </tr> <tr> <td>MSH-3.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-3.1	Namespace ID [IS]	EHR	MSH-3.2	Universal ID [ST]	2.16.840.1.114222.9.9.9999	MSH-3.3	Universal ID Type [ID]	ISO
Field	Field Name	Value												
MSH-3.1	Namespace ID [IS]	EHR												
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MSH-3.3	Universal ID Type [ID]	ISO												

MSH-4	Sending Facility [HD]	MY LAB NAME^24D0404999^CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-4.1</td> <td>Namespace ID [IS]</td> <td>MY LAB NAME</td> </tr> <tr> <td>MSH-4.2</td> <td>Universal ID [ST]</td> <td>24D0404999</td> </tr> <tr> <td>MSH-4.3</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-4.1	Namespace ID [IS]	MY LAB NAME	MSH-4.2	Universal ID [ST]	24D0404999	MSH-4.3	Universal ID Type [ID]	CLIA				
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MSH-4.2	Universal ID [ST]	24D0404999																
MSH-4.3	Universal ID Type [ID]	CLIA																
MSH-6	Receiving Facility [HD]	NH_DHHS^2.16.840.1.114222.4.1.3669^ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-6.1</td> <td>Namespace ID [IS]</td> <td>NH_DHHS</td> </tr> <tr> <td>MSH-6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.114222.4.1.3669</td> </tr> <tr> <td>MSH-6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-6.1	Namespace ID [IS]	NH_DHHS	MSH-6.2	Universal ID [ST]	2.16.840.1.114222.4.1.3669	MSH-6.3	Universal ID Type [ID]	ISO				
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MSH-6.3	Universal ID Type [ID]	ISO																
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Month	03																	
Day	09																	
Hour	06																	
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Seconds	00																	
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MSH-9	Message Type [MSG]	ORU^R01^ORU_R01 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-9.1</td> <td>Message Code [ID]</td> <td>ORU</td> </tr> <tr> <td>MSH-9.2</td> <td>Trigger Event [ID]</td> <td>R01</td> </tr> <tr> <td>MSH-9.3</td> <td>Message Structure [ID]</td> <td>ORU_R01</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-9.1	Message Code [ID]	ORU	MSH-9.2	Trigger Event [ID]	R01	MSH-9.3	Message Structure [ID]	ORU_R01				
Field	Field Name	Value																
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MSH-9.2	Trigger Event [ID]	R01																
MSH-9.3	Message Structure [ID]	ORU_R01																
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MSH-11	Processing ID [PT]	P																
MSH-12	Version ID [VID]	2.5.1																
MSH-15	Accept Acknowledgement Type [ID]	AL																
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MSH-21.3	Universal ID [ST]	2.16.840.1.113883.9.11																
MSH-21.4	Universal ID Type [ID]	ISO																

PID-1	Set ID - Patient ID [SI]	1																																							
PID-3	Patient ID (Internal ID) [CX]	<p>M10984682^^^EHR&amp;2.16.840.1.113883.99.9.9.9&amp;ISO^MR^A &amp;2.16.840.1.113883.99.9.9.8&amp;ISO</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.1</td> <td>ID Number / Patient Medical Record ID [ST]</td> <td>M10984682</td> </tr> <tr> <td>PID-3.4</td> <td>Assigning Authority [HD]</td> <td>EHR&amp;2.16.840.1.113883.99.9.9.9 &amp;ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-3.5</td> <td>Identifier Type Code [ID]</td> <td>MR</td> </tr> <tr> <td>PID-3.6</td> <td>Assigning Facility [HD]</td> <td>A&amp;2.16.840.1.113883.99.9.9.8 &amp;ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>A</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.8</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.1	ID Number / Patient Medical Record ID [ST]	M10984682	PID-3.4	Assigning Authority [HD]	EHR&2.16.840.1.113883.99.9.9.9 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.4.1	Namespace ID [IS]	EHR	PID-3.4.2	Universal ID [ST]	2.16.840.1.113883.99.9.9.9	PID-3.4.3	Universal ID Type [ID]	ISO	PID-3.5	Identifier Type Code [ID]	MR	PID-3.6	Assigning Facility [HD]	A&2.16.840.1.113883.99.9.9.8 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>A</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.8</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.6.1	Namespace ID [IS]	A	PID-3.6.2	Universal ID [ST]	2.16.840.1.113883.99.9.9.8	PID-3.6.3	Universal ID Type [ID]	ISO
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PID-7	Date of Birth [TS]	<p>19610530</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>1961</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>30</td> </tr> </tbody> </table>	Field Name	Value	Year	1961	Month	05	Day	30																															
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Year	1961																																								
Month	05																																								
Day	30																																								
PID-8	Sex [IS]	M																																							



PID-10	Race [CWE]	2106-3^WHITE^CDCREC																																																				
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PID-22	Ethnic Group [CWE]	2186-5^NOT HISPANIC OR LATINO^CDCREC			
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ORC-3	Placer Order Number [EI]	A6071081&CENTRAL MEDICAL CENTER HOSPITAL &30D9999999&CLIA			
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		ORC-3.2	Namespace ID [IS]	CENTRAL MEDICAL CENTER HOSPITAL	
		ORC-3.3	Universal ID [ST]	30D9999999	
ORC-3.4	Universal ID Type [ID]	CLIA			
ORC-12	Ordering Provider [XCN]	^ORDERING^JANE^Q^^DR^MD			
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		ORC -12.2	Ordering Provider Last Name [ST]	ORDERING	
				<b>Field</b>	<b>Field Name</b>
		ORC-12.2.1	Surname [ST]	PUBLIC	
		ORC -12.3	Ordering Provider First Name [ST]	JANE	
		ORC -12.4	Ordering Provider Middle Name [ST]	Q	
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ORC -12.6	Ordering Provider Prefix [IS]	DR			
ORC -12.7	Ordering Provider Degree [IS]	MD			

ORC-21	Ordering Facility Name [XON]	CENTRAL MEDICAL CENTER HOSPITAL <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-21.1</td> <td>Organization Name [ST]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-21.1	Organization Name [ST]	CENTRAL MEDICAL CENTER HOSPITAL																								
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ORC-24	Ordering Provider Address [XAD]	10&ELM AVE&UNIT C^^ANYTOWN^NH^03999-2515^USA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="786 1058 915 1409">ORC-24.1</td> <td data-bbox="915 1058 1073 1409">Ordering Provider Street Address [SAD]</td> <td data-bbox="1073 1058 1464 1409">           10&amp;ELM AVE&amp;UNIT C  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-24.1.1</td> <td>House Number [ST]</td> <td>10</td> </tr> <tr> <td>ORC-24.1.2</td> <td>Street Name [ST]</td> <td>ELM AVE</td> </tr> <tr> <td>ORC-24.1.2</td> <td>Apartment / Suite / Unit Number [ST]</td> <td>UNIT C</td> </tr> </tbody> </table> </td> </tr> <tr> <td>ORC-24.3</td> <td>Town [ST]</td> <td>ANYTOWN</td> </tr> <tr> <td>ORC-24.4</td> <td>State [ST]</td> <td>NH</td> </tr> <tr> <td>ORC-24.5</td> <td>Zip Code [ST]</td> <td>03999-2515</td> </tr> <tr> <td>ORC-24.5</td> <td>Country [ID]</td> <td>USA</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-24.1	Ordering Provider Street Address [SAD]	10&ELM AVE&UNIT C <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-24.1.1</td> <td>House Number [ST]</td> <td>10</td> </tr> <tr> <td>ORC-24.1.2</td> <td>Street Name [ST]</td> <td>ELM AVE</td> </tr> <tr> <td>ORC-24.1.2</td> <td>Apartment / Suite / Unit Number [ST]</td> <td>UNIT C</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-24.1.1	House Number [ST]	10	ORC-24.1.2	Street Name [ST]	ELM AVE	ORC-24.1.2	Apartment / Suite / Unit Number [ST]	UNIT C	ORC-24.3	Town [ST]	ANYTOWN	ORC-24.4	State [ST]	NH	ORC-24.5	Zip Code [ST]	03999-2515	ORC-24.5	Country [ID]	USA
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OBR-3	Filler Order Number [EI]	<p>A6071081&amp;CENTRAL MEDICAL CENTER HOSPITAL &amp;30D9999999&amp;CLIA</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-3.1</td> <td>Entity Identifier [ST]</td> <td>A6071081</td> </tr> <tr> <td>ORC-3.2</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> <tr> <td>ORC-3.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>ORC-3.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-3.1	Entity Identifier [ST]	A6071081	ORC-3.2	Namespace ID [IS]	CENTRAL MEDICAL CENTER HOSPITAL	ORC-3.3	Universal ID [ST]	30D9999999	ORC-3.4	Universal ID Type [ID]	CLIA									
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OBR-22	Results Report/Status Change - Date/Time [TS]	20160309064100-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2016</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>09</td> </tr> <tr> <td>Hour</td> <td>06</td> </tr> <tr> <td>Minutes</td> <td>41</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2016	Month	03	Day	09	Hour	06	Minutes	41	Seconds	00	GMT Offset	0400
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OBX-11	Observation Result Status [ID]	F																
OBX-14	Date/Time of the Observation [TS]	20160307155500-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2016</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>07</td> </tr> <tr> <td>Hour</td> <td>15</td> </tr> <tr> <td>Minutes</td> <td>55</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2016	Month	03	Day	07	Hour	15	Minutes	55	Seconds	00	GMT Offset	0400
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OBX-23	Performing Organization Name [XON]	GENERAL HOSPITAL REFERENCE LAB^^^^^																											
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NTE-3	Comment [FT]	Positive																											
SPM-1	Specimen Set Identifier [SI]	1																											

SPM-2	Specimen ID / Lab Accession Number [EIP]	<p>A6071081&amp;CENTRAL MEDICAL CENTER HOSPITAL&amp;30D9999999&amp;CLIA^1967582&amp;SQ&amp;EHR&amp;L,M,N</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td rowspan="5">SPM-2.1</td> <td rowspan="5">Placer Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>A6071081</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table> </td> </tr> <tr> <td rowspan="4">SPM-2.2</td> <td rowspan="4">Filler Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>1967582</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>EHR</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>L,M,N</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1	Placer Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>A6071081</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1.1	Entity Identifier [ST]	A6071081	SPM-2.1.2	Namespace ID [IS]	CENTRAL MEDICAL CENTER HOSPITAL	SPM-2.1.3	Universal ID [ST]	30D9999999	SPM-2.1.4	Universal ID Type [ID]	CLIA	SPM-2.2	Filler Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>1967582</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>EHR</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>L,M,N</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.2.1	Entity Identifier [ST]	1967582	SPM-2.2.2	Namespace ID [IS]	SQ	SPM-2.2.3	Universal ID [ST]	EHR	SPM-2.2.4	Universal ID Type [ID]	L,M,N
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SPM-4	Specimen Type [CWE]	<p>119297000^Blood specimen (specimen^SCT</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-4.1</td> <td>Standard Results Code [ST]</td> <td>119297000</td> </tr> <tr> <td>SPM-4.2</td> <td>Standard Text [ST]</td> <td>Blood specimen (specimen</td> </tr> <tr> <td>SPM-4.3</td> <td>Name of Standard Coding System [ID]</td> <td>SCT</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-4.1	Standard Results Code [ST]	119297000	SPM-4.2	Standard Text [ST]	Blood specimen (specimen	SPM-4.3	Name of Standard Coding System [ID]	SCT																											
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SPM-4.3	Name of Standard Coding System [ID]	SCT																																							
SPM-7	Specimen Collection Method [CWE]	<p>CAP^CAPILLARY SPECIMEN^HL70488</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-7.1</td> <td>Standard Results Code [ST]</td> <td>CAP</td> </tr> <tr> <td>SPM-7.2</td> <td>Standard Text [ST]</td> <td>CAPILLARY SPECIMEN</td> </tr> <tr> <td>SPM-7.3</td> <td>Name of Standard Coding System [ID]</td> <td>HL70488</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-7.1	Standard Results Code [ST]	CAP	SPM-7.2	Standard Text [ST]	CAPILLARY SPECIMEN	SPM-7.3	Name of Standard Coding System [ID]	HL70488																											
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SPM-8	Specimen Source Site [CWE]	281237008&Vascular structure of upper limb&SCT <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-8.1</td> <td>Standard Results Code [ST]</td> <td>281237008</td> </tr> <tr> <td>SPM-8.2</td> <td>Standard Text [ST]</td> <td>Vascular structure of upper limb</td> </tr> <tr> <td>SPM-8.3</td> <td>Name of Specimen Source Site Coding System [ID]</td> <td>SCT</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-8.1	Standard Results Code [ST]	281237008	SPM-8.2	Standard Text [ST]	Vascular structure of upper limb	SPM-8.3	Name of Specimen Source Site Coding System [ID]	SCT				
Field	Field Name	Value																
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SPM-8.2	Standard Text [ST]	Vascular structure of upper limb																
SPM-8.3	Name of Specimen Source Site Coding System [ID]	SCT																
SPM-17	Specimen Collection Date/Time [TS]	20160307155500-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2016</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>07</td> </tr> <tr> <td>Hour</td> <td>15</td> </tr> <tr> <td>Minutes</td> <td>55</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2016	Month	03	Day	07	Hour	15	Minutes	55	Seconds	00	GMT Offset	0400
Field Name	Value																	
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Month	03																	
Day	07																	
Hour	15																	
Minutes	55																	
Seconds	00																	
GMT Offset	0400																	
SPM-18	Specimen Received Date/Time [TS]	20160307160200-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2016</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>07</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>02</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2016	Month	03	Day	07	Hour	16	Minutes	02	Seconds	00	GMT Offset	0400
Field Name	Value																	
Year	2016																	
Month	03																	
Day	07																	
Hour	16																	
Minutes	02																	
Seconds	00																	
GMT Offset	0400																	

**One Test Result (Adult Lead)**

**Example:**

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MSH|^~\&#|EHR^2.16.840.1.114222.9.9.9999^ISO|MY LAB NAME^24D0404999^CLIA|
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|ORU^R01^ORU_R01|2013051400301236392|P|2.5.1|||AL|AL|||
|PHLabReport-Ack^^2.16.840.1.113883.9.11^ISO
PID|1||M109899999^^^EHR&2.16.840.1.113883.99.9.9.9&ISO^MR
^A&2.16.840.1.113883.99.9.9.8&ISO|88888888888888^^
^CMS&2.16.840.1.113883.3.249&ISO |PUBLIC^JOHN^Q||19610530|M|
|2106-3^WHITE^HL70005
|99&MAIN ST&APT 3A^^ANYTOWN^NH^03999-9999^USA^^^33013|||^603^5551212
|||2135-2^HISPANIC OR LATINO^CDCREC
ORC|RE||6810031234^EHR_Name^EHR_ID_Code^L,M,N|||
|^603^5558888^99|||CENTRAL MEDICAL CENTER HOSPITAL
|10&ELM AVE^^ANYTOWN^NH^03999-2515^USA|^603^5559999
|10&ELM AVE&UNIT C^ ^ANYTOWN^NH^03999-2515^USA
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|20130510161500-0400|||^ORDERING^JANE^Q^^DR^MD
|^603^5558888^99|||20130510161500-0400||F
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|0.0-9.9|N^NORMAL^HL70078||F||20130510161500-0400
|22D0099999^GENERAL HOSPITAL REFERENCE LAB^CLIA||0269^ICP/MS^OBSMETHOD|
|20130510161500-0400||GENERAL HOSPITAL REFERENCE LAB^^^CLIA^^^
^22D0099999|100&SCHOOL STREET^^ANYTOWN^NH^03999
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OBX|2|CWE|74287-4^OCCUPATION
[NTDS]^LN||0770^CONSTRUCTION^PHVS_INDUSTRY_CDC_CENSUS2010^^^LABORER
OBX|3|TX|80427-8^EMPLOYER NAME [IDENTIFIER]^LN||FIRST CLASS DEMOLITION
SPM|1|6079999&CENTRAL MEDICAL CENTER HOSPITAL&30D9999999&CLIA
^1967582&SQ&EHR&L,M,N||122554006^CAPILLARY BLOOD SPECIMEN^SCT||
|CAP^CAPILLARY SPECIMEN^HL70488|181395001^VENOUS STRUCTURE OF DIGIT^SCT
|||20130510161500-0400|20130514003000-0400
    
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**Parsed Example**

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MSH-2	Encoding Characters [ST]	^~\&#												
MSH-3	Sending Application [HD]	EHR^2.16.840.1.114222.9.9.9999^ISO												
		<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-3.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>MSH-3.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.114222.9.9.9999</td> </tr> <tr> <td>MSH-3.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-3.1	Namespace ID [IS]	EHR	MSH-3.2	Universal ID [ST]	2.16.840.1.114222.9.9.9999	MSH-3.3	Universal ID Type [ID]	ISO
		Field	Field Name	Value										
		MSH-3.1	Namespace ID [IS]	EHR										
MSH-3.2	Universal ID [ST]	2.16.840.1.114222.9.9.9999												
MSH-3.3	Universal ID Type [ID]	ISO												
MSH-4	Sending Facility [HD]	MY LAB NAME^24D0404999^CLIA												
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MSH-4.2	Universal ID [ST]	24D0404999												
MSH-4.3	Universal ID Type [ID]	CLIA												

Field	Field Name	Value																
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MSH-6.2	Universal ID [ST]	2.16.840.1.114222.4.1.3669																
MSH-6.3	Universal ID Type [ID]	ISO																
MSH-7	Date / Time of Message [TS]	20130514003000-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2013</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>14</td> </tr> <tr> <td>Hour</td> <td>00</td> </tr> <tr> <td>Minutes</td> <td>30</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2013	Month	05	Day	14	Hour	00	Minutes	30	Seconds	00	GMT Offset	0400
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Month	05																	
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MSH-9	Message Type [MSG]	ORU^R01^ORU_R01 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-9.1</td> <td>Message Code [ID]</td> <td>ORU</td> </tr> <tr> <td>MSH-9.2</td> <td>Trigger Event [ID]</td> <td>R01</td> </tr> <tr> <td>MSH-9.3</td> <td>Message Structure [ID]</td> <td>ORU_R01</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-9.1	Message Code [ID]	ORU	MSH-9.2	Trigger Event [ID]	R01	MSH-9.3	Message Structure [ID]	ORU_R01				
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MSH-15	Accept Acknowledgment Type [ID]	AL																
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MSH-21.3	Universal ID [ST]	2.16.840.1.113883.9.11																
MSH-21.4	Universal ID Type [ID]	ISO																
PID-1	Set ID - Patient ID [SI]	1																

Field	Field Name	Value																																							
PID-3	Patient ID (Internal ID) [CX]	M109899999^^^EHR&2.16.840.1.113883.99.9.9.9&ISO^MR^A &2.16.840.1.113883.99.9.9.8&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.1</td> <td>ID Number / Patient Medical Record ID [ST]</td> <td>M109899999</td> </tr> <tr> <td>PID-3.4</td> <td>Assigning Authority [HD]</td> <td>EHR&amp;2.16.840.1.113883.99.9.9.9 &amp;ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-3.5</td> <td>Identifier Type Code [ID]</td> <td>MR</td> </tr> <tr> <td>PID-3.6</td> <td>Assigning Facility [HD]</td> <td>A&amp;2.16.840.1.113883.99.9.9.9 &amp;ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>A</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.1	ID Number / Patient Medical Record ID [ST]	M109899999	PID-3.4	Assigning Authority [HD]	EHR&2.16.840.1.113883.99.9.9.9 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.4.1	Namespace ID [IS]	EHR	PID-3.4.2	Universal ID [ST]	2.16.840.1.113883.99.9.9.9	PID-3.4.3	Universal ID Type [ID]	ISO	PID-3.5	Identifier Type Code [ID]	MR	PID-3.6	Assigning Facility [HD]	A&2.16.840.1.113883.99.9.9.9 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>A</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9.9</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.6.1	Namespace ID [IS]	A	PID-3.6.2	Universal ID [ST]	2.16.840.1.113883.99.9.9.9	PID-3.6.3	Universal ID Type [ID]	ISO
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PID-7	Date of Birth [TS]	19610530 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>1961</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>30</td> </tr> </tbody> </table>	Field Name	Value	Year	1961	Month	05	Day	30										
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PID-8	Sex [IS]	M																		
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ORC-21	Ordering Facility Name [XON]	CENTRAL MEDICAL CENTER HOSPITAL <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-21.1</td> <td>Organization Name [ST]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-21.1	Organization Name [ST]	CENTRAL MEDICAL CENTER HOSPITAL																		
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OBR-3	Filler Order Number [EI]	6810031234^EHR_Name^EHR_ID_Code^L,M,N <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-3.1</td> <td>Requested Test Code [ST]</td> <td>6810031234</td> </tr> <tr> <td>OBR-3.2</td> <td>Test Description [IS]</td> <td>EHR_Name</td> </tr> <tr> <td>OBR-3.3</td> <td>Test Coding System [ST]</td> <td>EHR_ID_Code</td> </tr> <tr> <td>OBR-3.4</td> <td>Universal ID Type [ID]</td> <td>L,M,N</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-3.1	Requested Test Code [ST]	6810031234	OBR-3.2	Test Description [IS]	EHR_Name	OBR-3.3	Test Coding System [ST]	EHR_ID_Code	OBR-3.4	Universal ID Type [ID]	L,M,N	
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OBX-8	Abnormal Flags [CWE]	N^NORMAL^HL70078 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-8.1</td> <td>Abnormal Flag Code [ST]</td> <td>N</td> </tr> <tr> <td>OBX-8.2</td> <td>Abnormal Flag Code Description [ST]</td> <td>NORMAL</td> </tr> <tr> <td>OBX-8.3</td> <td>Abnormal Flag Coding System [ID]</td> <td>HL70078</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-8.1	Abnormal Flag Code [ST]	N	OBX-8.2	Abnormal Flag Code Description [ST]	NORMAL	OBX-8.3	Abnormal Flag Coding System [ID]	HL70078				
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OBX-23	Performing Organization Name [XON]	GENERAL HOSPITAL REFERENCE LAB^^^^^CLIA^^^ ^22D0099999 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.1</td> <td>Resulting Organization Name [ST]</td> <td>CENTRAL MEDICAL CENTER LABORATOR</td> </tr> <tr> <td>OBX-23.6</td> <td>Assigning Authority [HD]</td> <td>CLIA&amp;2.16.840.1.113883.99.9.9&amp;ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Resulting Organization Name [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Organization Identifier [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> <tr> <td>OBX-23.10</td> <td>Resulting Organization Identifier [ST]</td> <td>30D0999999</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.1	Resulting Organization Name [ST]	CENTRAL MEDICAL CENTER LABORATOR	OBX-23.6	Assigning Authority [HD]	CLIA&2.16.840.1.113883.99.9.9&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-23.6.1</td> <td>Resulting Organization Name [IS]</td> <td>CLIA</td> </tr> <tr> <td>OBX-23.6.2</td> <td>Assigning Authority [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>OBX-23.6.3</td> <td>Organization Identifier [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-23.6.1	Resulting Organization Name [IS]	CLIA	OBX-23.6.2	Assigning Authority [ST]	2.16.840.1.113883.99.9.9	OBX-23.6.3	Organization Identifier [ID]	ISO	OBX-23.10	Resulting Organization Identifier [ST]	30D0999999
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OBX-24	Resulting Organization Address [XAD]	100&School Street^^Anytown^NH^03999 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1</td> <td>Street Address [SAD]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>School Street</td> </tr> <tr> <td>ORC-24.1.3</td> <td>Ordering Facility Apartment / Suite / Unit Number [ST]</td> <td>UNIT C</td> </tr> </tbody> </table> </td> </tr> <tr> <td>OBX-24.3</td> <td>Town [ST]</td> <td>Anytown</td> </tr> <tr> <td>OBX-24.4</td> <td>State [ST]</td> <td>NH</td> </tr> <tr> <td>OBX-24.5</td> <td>Zip Code [ST]</td> <td>03999</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1	Street Address [SAD]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-24.1.1</td> <td>House Number [ST]</td> <td>100</td> </tr> <tr> <td>OBX-24.1.2</td> <td>Street Name [ST]</td> <td>School Street</td> </tr> <tr> <td>ORC-24.1.3</td> <td>Ordering Facility Apartment / Suite / Unit Number [ST]</td> <td>UNIT C</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-24.1.1	House Number [ST]	100	OBX-24.1.2	Street Name [ST]	School Street	ORC-24.1.3	Ordering Facility Apartment / Suite / Unit Number [ST]	UNIT C	OBX-24.3	Town [ST]	Anytown	OBX-24.4	State [ST]	NH	OBX-24.5	Zip Code [ST]	03999
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NTE-2	Source of Comment [ID]	L																											
NTE-3	Comment [FT]	TESTING PERFORMED BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY																											
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OBX-1	Set ID - OBX [SI]	3																											

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SPM-1	Set ID _SPM [SI]	1																																							
SPM-2	Placer Assigned Identifier [EIP]	6079999&CENTRAL MEDICAL CENTER HOSPITAL&30D9999999&CLIA^1967582&SQ&EHR&L,M,N <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td rowspan="5">SPM-2.1</td> <td rowspan="5">Placer Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>6079999</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table> </td> </tr> <tr> <td rowspan="4">SPM-2.2</td> <td rowspan="4">Filler Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>1967582</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>EHR</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>L,M,N</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1	Placer Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>6079999</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>CENTRAL MEDICAL CENTER HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1.1	Entity Identifier [ST]	6079999	SPM-2.1.2	Namespace ID [IS]	CENTRAL MEDICAL CENTER HOSPITAL	SPM-2.1.3	Universal ID [ST]	30D9999999	SPM-2.1.4	Universal ID Type [ID]	CLIA	SPM-2.2	Filler Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>1967582</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>EHR</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>L,M,N</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.2.1	Entity Identifier [ST]	1967582	SPM-2.2.2	Namespace ID [IS]	SQ	SPM-2.2.3	Universal ID [ST]	EHR	SPM-2.2.4	Universal ID Type [ID]	L,M,N
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SPM-4	Specimen Type [CWE]	122554006^CAPILLARY BLOOD SPECIMEN^SCT <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-4.1</td> <td>Standard Results Code [ST]</td> <td>122554006</td> </tr> <tr> <td>SPM-4.2</td> <td>Standard Text [ST]</td> <td>CAPILLARY BLOOD SPECIMEN</td> </tr> <tr> <td>SPM-4.3</td> <td>Name of Standard Coding System [ID]</td> <td>SCT</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-4.1	Standard Results Code [ST]	122554006	SPM-4.2	Standard Text [ST]	CAPILLARY BLOOD SPECIMEN	SPM-4.3	Name of Standard Coding System [ID]	SCT																											
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SPM-8	Specimen Source Site [CWE]	181395001^VENOUS STRUCTURE OF DIGIT^SCT <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-8.1</td> <td>Standard Results Code [ST]</td> <td>181395001</td> </tr> <tr> <td>SPM-8.2</td> <td>Standard Text [ST]</td> <td>VENOUS STRUCTURE OF DIGIT</td> </tr> <tr> <td>SPM-8.3</td> <td>Name of Specimen Source Site Coding System [ID]</td> <td>SCT</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-8.1	Standard Results Code [ST]	181395001	SPM-8.2	Standard Text [ST]	VENOUS STRUCTURE OF DIGIT	SPM-8.3	Name of Specimen Source Site Coding System [ID]	SCT				
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SPM-17	Specimen Collection Date/Time [TS]	20130510161500-0400   <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2013</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>10</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>15</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2013	Month	05	Day	10	Hour	16	Minutes	15	Seconds	00	GMT Offset	0400
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SPM-18	Specimen Received Date/Time [TS]	20130514003000-0400 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2013</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>14</td> </tr> <tr> <td>Hour</td> <td>00</td> </tr> <tr> <td>Minutes</td> <td>30</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2013	Month	05	Day	14	Hour	00	Minutes	30	Seconds	00	GMT Offset	0400
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## Multiple Test Results/Diseases

Below is a sample of an HL7 message that contains one test that yielded results indicating two diseases. In this example there is one OBR segment (lab order) and two OBX segments (test results) for this test. One OBX segment will appear for each organism detected.

```
MSH|^~\&#|MYLAB^2.16.840.1.114222.9.9.9999^ISO|MY LAB NAME^24D0404999^CLIA
|NH_DHHS^2.16.840.1.114222.4.1.3669^ISO|20100402033900-0500|
|ORU^R01^ORU_R01|2010040203394906462|P|2.5.1||AL|AL|||
|PHLabReport-Ack^^2.16.840.1.113883.9.11^ISO
PID|1||54187279^^^EHR&2.16.840.1.113883.99.9.9.9&ISO^MR^MDSRIPTS_CORP&2.1
6.840.1.113883.99.9.9.9&ISO||PUBLIC^JOHN^Q||19890426|M|
|2106-3^WHITE^HL70005|123&MAIN STREET&APT 12^^BERLIN^NH^03999-1111^USA^
^33007^^^I||^603^5551212|||2135-2^HISPANIC OR LATINO^CDCREC
ORC|RE|||^ORDERING^JOHN^Q^SR^DR^MD|||
|MEMORIAL GENERAL HOSPITAL|999&MEDICAL DRIVE^^ANYTOWN^NH^03999
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MSH-2	Encoding Characters [ST]	^~\&#												
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Field	Field Name	Value																
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MSH-7	Date / Time of Message [TS]	20100402033900-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2010</td> </tr> <tr> <td>Month</td> <td>04</td> </tr> <tr> <td>Day</td> <td>02</td> </tr> <tr> <td>Hour</td> <td>03</td> </tr> <tr> <td>Minutes</td> <td>39</td> </tr> <tr> <td>Seconds</td> <td>00</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2010	Month	04	Day	02	Hour	03	Minutes	39	Seconds	00	GMT Offset	0500
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Month	04																	
Day	02																	
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MSH-9	Message Type [MSG]	ORU^R01^ORU_R01 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-9.1</td> <td>Message Code [ID]</td> <td>ORU</td> </tr> <tr> <td>MSH-9.2</td> <td>Trigger Event [ID]</td> <td>R01</td> </tr> <tr> <td>MSH-9.3</td> <td>Message Structure [ID]</td> <td>ORU_R01</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-9.1	Message Code [ID]	ORU	MSH-9.2	Trigger Event [ID]	R01	MSH-9.3	Message Structure [ID]	ORU_R01				
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Field	Field Name	Value																																							
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PID-3	Patient ID (Internal ID) [CX]	54187279^^^EHR&2.16.840.1.113883.99.9.9&ISO^MR^MDS CRIPTS_CORP&2.16.840.1.113883.99.9.9&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.1</td> <td>ID Number / Patient Medical Record ID [ST]</td> <td>54187279</td> </tr> <tr> <td>PID-3.4</td> <td>Assigning Authority [HD]</td> <td>EHR&amp;2.16.840.1.113883.99.9.9 &amp;ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-3.5</td> <td>Identifier Type Code [ID]</td> <td>MR</td> </tr> <tr> <td>PID-3.6</td> <td>Assigning Facility [HD]</td> <td>MDS CRIPTS_CORP &amp;2.16.840.1.113883.99.9.9 &amp;ISO  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>MDS CRIPTS_CORP</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.1	ID Number / Patient Medical Record ID [ST]	54187279	PID-3.4	Assigning Authority [HD]	EHR&2.16.840.1.113883.99.9.9 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.4.1</td> <td>Namespace ID [IS]</td> <td>EHR</td> </tr> <tr> <td>PID-3.4.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>PID-3.4.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.4.1	Namespace ID [IS]	EHR	PID-3.4.2	Universal ID [ST]	2.16.840.1.113883.99.9.9	PID-3.4.3	Universal ID Type [ID]	ISO	PID-3.5	Identifier Type Code [ID]	MR	PID-3.6	Assigning Facility [HD]	MDS CRIPTS_CORP &2.16.840.1.113883.99.9.9 &ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-3.6.1</td> <td>Namespace ID [IS]</td> <td>MDS CRIPTS_CORP</td> </tr> <tr> <td>PID-3.6.2</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.99.9.9</td> </tr> <tr> <td>PID-3.6.3</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-3.6.1	Namespace ID [IS]	MDS CRIPTS_CORP	PID-3.6.2	Universal ID [ST]	2.16.840.1.113883.99.9.9	PID-3.6.3	Universal ID Type [ID]	ISO
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PID-5	Patient Name [XPN]	PUBLIC^JOHN^Q <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1</td> <td>Patient Family Name [FN]</td> <td>PUBLIC  <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1.1</td> <td>Surname [ST]</td> <td>PUBLIC</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-5.2</td> <td>Patient First Name [ST]</td> <td>JOHN</td> </tr> <tr> <td>PID-5.3</td> <td>Patient Middle Name [ST]</td> <td>Q</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-5.1	Patient Family Name [FN]	PUBLIC <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-5.1.1</td> <td>Surname [ST]</td> <td>PUBLIC</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-5.1.1	Surname [ST]	PUBLIC	PID-5.2	Patient First Name [ST]	JOHN	PID-5.3	Patient Middle Name [ST]	Q																					
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PID-11	Patient Address [XAD]	123&MAIN STREET&APT 12^^BERLIN^NH^03999-1111^USA^33007 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-11.1</td> <td>Patient Residence Address [SAD]</td> <td>999&amp;MAIN ST&amp;APT 3A <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-11.1.1</td> <td>Patient Residence House Number [ST]</td> <td>123</td> </tr> <tr> <td>PID-11.1.2</td> <td>Patient Residence Street Name [ST]</td> <td>MAIN ST</td> </tr> <tr> <td>PID-11.3</td> <td>Patient Residence Apartment Number [ST]</td> <td>APT 12</td> </tr> </tbody> </table> </td> </tr> <tr> <td>PID-11.3</td> <td>Patient Residence City / Town [ST]</td> <td>BERLIN</td> </tr> <tr> <td>PID-11.4</td> <td>Patient Residence State [ST]</td> <td>NH</td> </tr> <tr> <td>PID-11.5</td> <td>Patient Zip Code [ST]</td> <td>03999-1111</td> </tr> <tr> <td>PID-11.6</td> <td>Patient Residence Country [IS]</td> <td>USA</td> </tr> <tr> <td>PID-11.9</td> <td>County / Parish Code [IS]</td> <td>33007</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-11.1	Patient Residence Address [SAD]	999&MAIN ST&APT 3A <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-11.1.1</td> <td>Patient Residence House Number [ST]</td> <td>123</td> </tr> <tr> <td>PID-11.1.2</td> <td>Patient Residence Street Name [ST]</td> <td>MAIN ST</td> </tr> <tr> <td>PID-11.3</td> <td>Patient Residence Apartment Number [ST]</td> <td>APT 12</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-11.1.1	Patient Residence House Number [ST]	123	PID-11.1.2	Patient Residence Street Name [ST]	MAIN ST	PID-11.3	Patient Residence Apartment Number [ST]	APT 12	PID-11.3	Patient Residence City / Town [ST]	BERLIN	PID-11.4	Patient Residence State [ST]	NH	PID-11.5	Patient Zip Code [ST]	03999-1111	PID-11.6	Patient Residence Country [IS]	USA	PID-11.9	County / Parish Code [IS]	33007
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PID-13	Phone Number - Home [TN]	^^^^603^5551212 <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PID-13.6</td> <td>Area Code [NM]</td> <td>603</td> </tr> <tr> <td>PID-13.7</td> <td>Local Number [NM]</td> <td>5551213</td> </tr> </tbody> </table>	Field	Field Name	Value	PID-13.6	Area Code [NM]	603	PID-13.7	Local Number [NM]	5551213																								
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ORC-12	Ordering Provider [XCN]	^ORDERING^JOHN^Q^JR^DR^MD <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>ORC-12.2</td> <td>Ordering Provider Last Name [ST]</td> <td>PROVIDER <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table> </td> </tr> <tr> <td>ORC-12.3</td> <td>Ordering Provider First Name [ST]</td> <td>JOHN</td> </tr> <tr> <td>ORC-12.4</td> <td>Ordering Provider Middle Name [ST]</td> <td>Q</td> </tr> <tr> <td>ORC-12.5</td> <td>Ordering Provider Suffix [ST]</td> <td>JR</td> </tr> <tr> <td>ORC-12.6</td> <td>Ordering Provider Prefix [ST]</td> <td>DR</td> </tr> <tr> <td>ORC-12.7</td> <td>Ordering Provider Degree [IS]</td> <td>MD</td> </tr> </tbody> </table>	Field	Field Name	Value	ORC-12.2	Ordering Provider Last Name [ST]	PROVIDER <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-16.2.1</td> <td>Surname [ST]</td> <td>PROVIDER</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-16.2.1	Surname [ST]	PROVIDER	ORC-12.3	Ordering Provider First Name [ST]	JOHN	ORC-12.4	Ordering Provider Middle Name [ST]	Q	ORC-12.5	Ordering Provider Suffix [ST]	JR	ORC-12.6	Ordering Provider Prefix [ST]	DR	ORC-12.7	Ordering Provider Degree [IS]	MD
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OBR-3	Filler Order Number [EI]	6071081&MEMORIAL GENERAL HOSPITAL&30D9999999&CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBR-3.1</td> <td>Entity Identifier [ST]</td> <td>6071081</td> </tr> <tr> <td>OBR-3.2</td> <td>Namespace ID [IS]</td> <td>MEMORIAL GENERAL HOSPITAL</td> </tr> <tr> <td>OBR-3.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>OBR-3.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBR-3.1	Entity Identifier [ST]	6071081	OBR-3.2	Namespace ID [IS]	MEMORIAL GENERAL HOSPITAL	OBR-3.3	Universal ID [ST]	30D9999999	OBR-3.4	Universal ID Type [ID]	CLIA									
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OBR-22	Results Rpt/Status Chng - Date/Time [TS]	20100401161315-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2015</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>11</td> </tr> <tr> <td>Hour</td> <td>01</td> </tr> <tr> <td>Minutes</td> <td>30</td> </tr> <tr> <td>Seconds</td> <td>15</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2015	Month	05	Day	11	Hour	01	Minutes	30	Seconds	15	GMT Offset	0500											
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OBX-2	Value Type [ID]	CWE																
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OBX-14	Date/Time of the Observation [TS]	20100329145023-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2010</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>29</td> </tr> <tr> <td>Hour</td> <td>14</td> </tr> <tr> <td>Minutes</td> <td>50</td> </tr> <tr> <td>Seconds</td> <td>23</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2010	Month	03	Day	29	Hour	14	Minutes	50	Seconds	23	GMT Offset	0500
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OBX-15	Producer's ID [CWE]	24D1049999^NEIGHBORHOOD LABORATORY SERVICES^CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-15.1</td> <td>Resulting Organization Identifier [ST]</td> <td>24D1049999</td> </tr> <tr> <td>OBX-15.2</td> <td>Resulting Organization Name [ST]</td> <td>NEIGHBORHOOD LABORATORY SERVICES</td> </tr> <tr> <td>OBX-15.3</td> <td>Name of Coding System [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-15.1	Resulting Organization Identifier [ST]	24D1049999	OBX-15.2	Resulting Organization Name [ST]	NEIGHBORHOOD LABORATORY SERVICES	OBX-15.3	Name of Coding System [ID]	CLIA				
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SPM-2	Specimen ID / Lab Accession Number [EIP]	112574638999&MEMORIAL GENERAL HOSPITAL&30D9999999&CLIA^W4596020199999&SQ&2.16.840.1.113883.9.999&ISO <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1</td> <td>Placer Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>112574638999</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>MEMORIAL GENERAL HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table> </td> </tr> <tr> <td>SPM-2.2</td> <td>Filler Assigned Identifier [EI]</td> <td> <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>W459602019999</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.9.999</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1	Placer Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.1.1</td> <td>Entity Identifier [ST]</td> <td>112574638999</td> </tr> <tr> <td>SPM-2.1.2</td> <td>Namespace ID [IS]</td> <td>MEMORIAL GENERAL HOSPITAL</td> </tr> <tr> <td>SPM-2.1.3</td> <td>Universal ID [ST]</td> <td>30D9999999</td> </tr> <tr> <td>SPM-2.1.4</td> <td>Universal ID Type [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.1.1	Entity Identifier [ST]	112574638999	SPM-2.1.2	Namespace ID [IS]	MEMORIAL GENERAL HOSPITAL	SPM-2.1.3	Universal ID [ST]	30D9999999	SPM-2.1.4	Universal ID Type [ID]	CLIA	SPM-2.2	Filler Assigned Identifier [EI]	<table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SPM-2.2.1</td> <td>Entity Identifier [ST]</td> <td>W459602019999</td> </tr> <tr> <td>SPM-2.2.2</td> <td>Namespace ID [IS]</td> <td>SQ</td> </tr> <tr> <td>SPM-2.2.3</td> <td>Universal ID [ST]</td> <td>2.16.840.1.113883.9.999</td> </tr> <tr> <td>SPM-2.2.4</td> <td>Universal ID Type [ID]</td> <td>ISO</td> </tr> </tbody> </table>	Field	Field Name	Value	SPM-2.2.1	Entity Identifier [ST]	W459602019999	SPM-2.2.2	Namespace ID [IS]	SQ	SPM-2.2.3	Universal ID [ST]	2.16.840.1.113883.9.999	SPM-2.2.4	Universal ID Type [ID]	ISO
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SPM-18	Specimen Received Date/Time [TS]	20100329162112-0500 <table border="1"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2010</td> </tr> <tr> <td>Month</td> <td>03</td> </tr> <tr> <td>Day</td> <td>29</td> </tr> <tr> <td>Hour</td> <td>16</td> </tr> <tr> <td>Minutes</td> <td>21</td> </tr> <tr> <td>Seconds</td> <td>12</td> </tr> <tr> <td>GMT Offset</td> <td>0500</td> </tr> </tbody> </table>	Field Name	Value	Year	2010	Month	03	Day	29	Hour	16	Minutes	21	Seconds	12	GMT Offset	0500
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OBX-1	Set ID - OBX [SI]	1																
OBX-2	Value Type [ID]	CWE																
OBX-3	Observation Identifier [CWE]	23667-9^BACTERIA IDENTIFIED IN UNSPECIFIED SPECIMEN^LN <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-3.1</td> <td>Lab Order Code [ST]</td> <td>23667-9</td> </tr> <tr> <td>OBX-3.2</td> <td>Lab Order Code Description [ST]</td> <td>BACTERIA IDENTIFIED IN UNSPECIFIED SPECIMEN</td> </tr> <tr> <td>OBX-3.3</td> <td>Lab Order Coding System [ID]</td> <td>LN</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-3.1	Lab Order Code [ST]	23667-9	OBX-3.2	Lab Order Code Description [ST]	BACTERIA IDENTIFIED IN UNSPECIFIED SPECIMEN	OBX-3.3	Lab Order Coding System [ID]	LN				
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OBX-15	Producer's ID [CWE]	24D1049999^NEIGHBORHOOD LABORATORY SERVICES^CLIA <table border="1"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>OBX-15.1</td> <td>Resulting Organization Identifier [ST]</td> <td>24D1049999</td> </tr> <tr> <td>OBX-15.2</td> <td>Resulting Organization Name [ST]</td> <td>NEIGHBORHOOD LABORATORY SERVICES</td> </tr> <tr> <td>OBX-15.3</td> <td>Name of Coding System [ID]</td> <td>CLIA</td> </tr> </tbody> </table>	Field	Field Name	Value	OBX-15.1	Resulting Organization Identifier [ST]	24D1049999	OBX-15.2	Resulting Organization Name [ST]	NEIGHBORHOOD LABORATORY SERVICES	OBX-15.3	Name of Coding System [ID]	CLIA				
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## Acknowledgement Message

Based upon the agreed upon transport mechanism, NH DPHS will return an acknowledgement message to the system a laboratory employs to submit data to public health. Below is a representative example of an acknowledgement message generated by the state.

### Example:

```
MSH|^~\&|RHAPSODY|SONH||300001|20130523124634-0400||ACK|3193608|P|2.5.1
MSA|AA|21677350
```

### Parsed Example

FIELD	FIELD NAME	VALUE																
MSH-1	Field Separator [ST]																	
MSH-2	Encoding Characters [ST]	^~\																
MSH-3	Sending Application [HD]	RHAPSODY																
MSH-4	Sending Facility [HD]	SONH																
MSH-6	Receiving Facility [HD]	300001																
MSH-7	Date / Time of Message [TS]	20130523124634-0400 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Year</td> <td>2013</td> </tr> <tr> <td>Month</td> <td>05</td> </tr> <tr> <td>Day</td> <td>23</td> </tr> <tr> <td>Hour</td> <td>12</td> </tr> <tr> <td>Minutes</td> <td>46</td> </tr> <tr> <td>Seconds</td> <td>34</td> </tr> <tr> <td>GMT Offset</td> <td>0400</td> </tr> </tbody> </table>	Field Name	Value	Year	2013	Month	05	Day	23	Hour	12	Minutes	46	Seconds	34	GMT Offset	0400
Field Name	Value																	
Year	2013																	
Month	05																	
Day	23																	
Hour	12																	
Minutes	46																	
Seconds	34																	
GMT Offset	0400																	
MSH-9	Message Type [MSG]	ACK <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Field</th> <th>Field Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>MSH-9.1</td> <td>Message Code [ID]</td> <td>ACK</td> </tr> <tr> <td>MSH-9.2</td> <td>Trigger Event [ID]</td> <td>&lt;empty&gt;</td> </tr> <tr> <td>MSH-9.3</td> <td>Message Structure [ID]</td> <td>&lt;empty&gt;</td> </tr> </tbody> </table>	Field	Field Name	Value	MSH-9.1	Message Code [ID]	ACK	MSH-9.2	Trigger Event [ID]	<empty>	MSH-9.3	Message Structure [ID]	<empty>				
Field	Field Name	Value																
MSH-9.1	Message Code [ID]	ACK																
MSH-9.2	Trigger Event [ID]	<empty>																
MSH-9.3	Message Structure [ID]	<empty>																
MSH-10	Message Control ID [ST]	3193608																
MSH-11	Processing ID [PT]	P																
MSH-12	Version ID [ID]	2.5.1																
MSA-1	Acknowledgement code [ID]	AA																
MSA-2	Message Control ID [ST]	21677350																

## APPENDIX IV – Non-Conforming Messages

All laboratories are strongly encouraged to submit laboratory results using HL7 v2.5.1 structured messages. The below tables are intended to help ease the transition from older HL7 messaging construction rules to the HL7 v2.5.1 messaging specification.

**Deprecated Segment Fields**

Pre HL7 v2.5.1 Field Description	Pre HL7 v2.5.1 Field Location	HL7 Version when Deprecated	HL7 v2.5.1 Field Location
Priority – OBR	OBR-5	HL7 v2.3	TQ1-9
Requested Date/Time	OBR-6	HL7 v2.3	TQ1-8
Collection Volume	OBR-9	HL7 v2.5	SPM-12
Specimen Received Date/Time	OBR-14	HL7 v2.5	SPM-18
Specimen Source	OBR-15	HL7 v2.5	SPM-4
Quantity/Timing	OBR-27	HL7 v2.5	TQ1 segment TQ2 segment
Quantity/Timing	ORC-7	HL7 v2.5	TQ1 segment TQ2 segment
Patient ID	PID-2	HL7 v2.3.1	PID-3
Alternate Patient ID – PID	PID-4	HL7 v2.3.1	PID-3
Patient Alias	PID-9	HL7 v2.4	PID-5
County/Parish Code	PID-12	HL7 v2.3	PID-11.9
SSN Number – Patient	PID-19	HL7 v2.3.1	PID-3
Driver’s License Number – Patient	PID-20	HL7 v2.5	PID-3
Nationality	PID-28	HL7 v2.4	PID-10 PID-22 PID-26



### Deprecated Data Types

Field Description	Pre HL7 v2.5.1 Data Type	HL7 Version when Deprecated	HL7 v2.5.1 Data Type
Degree of Precision	TS-2	HL7 v2.3	DTM Data Type
Address Validity Range	XAD-12	HL7 v2.5	XAD.13 XAD.14
Name Validity Range	XCN-17	HL7 v2.5	XCN.19 XCN.20
ID Number	XON.3	HL7 v2.5	XON.10
Name Validity Range	XPN.10	HL7 v2.5	XPN.12 XPN.13
Telephone Number	XTN-1	HL7 v2.3	XTN.5 XTN.6 XTN.7 XTN.8

## APPENDIX V - References and Resources

### CDC ELR and Meaningful Use Resources

CDC Electronic Laboratory Reporting <http://www.cdc.gov/ehrmeaningfuluse/elr.html>

CDC Meaningful Use <http://www.cdc.gov/ehrmeaningfuluse/>

PHIN – Public Health Information Network <http://www.cdc.gov/phn/index.html>

### Private HL7 Resources

Caristix HL7 Resources <http://hl7-definition.caristix.com:9010/Default.aspx?version=HL7+v2.5.1>

HAPI Project Documentation <http://hl7api.sourceforge.net/v251/apidocs/index.html>

SMART HL7 Message Viewer <http://smarthl7.com/>

athenahealth Documentation [http://www.athenahealth.com/~media/athenaweb/files/developer-portal/oru\\_specification\\_and\\_sample\\_messages.docx?la=en](http://www.athenahealth.com/~media/athenaweb/files/developer-portal/oru_specification_and_sample_messages.docx?la=en)

Google Groups HL7v2 Lab Testing forum <https://groups.google.com/forum#!forum/hl7v2-lab-testing>

### NH State and DHHS Resources

NH DPHS Meaningful Use website <http://www.dhhs.nh.gov/dphs/bphsi/meaningful-use.htm>

NH Reportable Disease and Conditions List

<http://www.dhhs.state.nh.us/dphs/cdcs/documents/reportablediseases.pdf>

NH Communicable Disease Statute, RSA-141-C <http://www.gencourt.state.nh.us/rsa/html/X/141-C/141-C-mrg.htm>

NH Lead Paint Poisoning Prevention and Control, RSA 130-A, NH Lead Paint Poisoning Prevention and Control, RSA 130-A <http://www.gencourt.state.nh.us/rsa/html/NHTOC/NHTOC-X-130-A.htm>

NH Communicable Diseases Administrative Rules, He-P 301

[http://gencourt.state.nh.us/rules/state\\_agencies/he-p300.html](http://gencourt.state.nh.us/rules/state_agencies/he-p300.html)

NH Lead Paint Poisoning Prevention and Control Administrative Rules, He-P 1600

[http://www.gencourt.state.nh.us/rules/state\\_agencies/he-p1600.html](http://www.gencourt.state.nh.us/rules/state_agencies/he-p1600.html)

### Local Resources

NHHIE - New Hampshire Health Information Exchange <http://www.dhhs.nh.gov/hie/>

NHHIO - New Hampshire Health Information Organization <http://www.nhhio.org/>

RECNH - Regional Extension Center of New Hampshire <http://www.recnh.org/>

### HL7 Messaging

ELR 2.5.1 Clarification Document for EHR Technology Certification V1.1 Date: October 16, 2012

[http://www.cdc.gov/ehrmeaningfuluse/Docs/1ELR251\\_Clarification\\_EHR\\_Tech\\_Cert\\_v1\\_1-20121016.pdf](http://www.cdc.gov/ehrmeaningfuluse/Docs/1ELR251_Clarification_EHR_Tech_Cert_v1_1-20121016.pdf)

HL7 Data Dictionary - Appendix A, Health Level Seven, Version 2.6 © 2007

[http://www.hl7.org/special/committees/vocab/V26\\_Appendix\\_A.pdf](http://www.hl7.org/special/committees/vocab/V26_Appendix_A.pdf)

HL7 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 1 (US Realm), for HL7 v2.5.1 [https://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=98](https://www.hl7.org/implement/standards/product_brief.cfm?product_id=98)

HL7 Implementation Guide: Electronic Laboratory Reporting to Public Health, for HL7 v2.3.1 [http://www.cdc.gov/phn/library/archive\\_2003/PHIN\\_Lab\\_Pharmacy\\_Supply\\_Orders\\_v231.pdf](http://www.cdc.gov/phn/library/archive_2003/PHIN_Lab_Pharmacy_Supply_Orders_v231.pdf)

LIC – Lab Interoperability Cooperative has a Federally-funded grant to help hospitals progress to Electronic Laboratory Reporting to local public health agencies. They provide training and tools for hospitals. <http://www.labinteroperabilitycoop.org/>

PHIN Vocabulary and Access Distribution System (VADS) Search Tool  
<https://phinvas.cdc.gov/vads/SearchHome.action>

## HL7 Message Test Tools

**The PHIN Message Quality Framework (MQF)** is an online tool to help validate test message structure and content

<https://phinmqf.cdc.gov/>, to test HL7 messages for required format and fields (not content)

**NIST Electronic Lab Reporting (ELR) Validation Suite (NIST Tool)** is an online tool to help validate and test message structure and content. NIST (National Institute of Standards and Technology)  
<http://hl7v2-elr-testing.nist.gov/mu-elr/>

## LOINC/SNOMED Mapping Tools

**The Reportable Condition Mapping Table (RCMT)** contains a subset of LOINC and SNOMED codes associated with nationally reportable disease conditions. This table is updated regularly, but not at the same pace as new LOINC and SNOMED codes are released. Despite this limitation, it is a great tool for any laboratory developing rules to identify reportable laboratory test results

RCMT (Reportable Condition Mapping Table)

<http://www.cdc.gov/phin/tools/PHINvads/index.html>

**Regenstrief LOINC Mapping Assistant (RELMA)** is a great tool for searching the LOINC database for codes associated with various reportable disease conditions. This tool is updated more frequently than the RCMT.

RELMA - Regenstrief LOINC Mapping Assistant

<http://loinc.org/relma>

## APPENDIX VI – Acceptable NIST Validation Tool Errors

The following list of NIST Validation Tool errors may be ignored when testing messages for conformance with this specification.

Segment	Field	Exception	
MSH	MSH-3	<b>Error</b> <b>Optionality</b> <b>Note</b>	MSH[1].3[1] is missing Field is optional Errors may be ignored when the field is intentionally empty. Errors identified by the NIST tool should be resolved when the field is populated.
MSH	MSH-5	<b>Error</b> <b>Optionality</b> <b>Note</b>	MSH[1].5[1] is missing. Subfield is optional Errors may be ignored when the field is intentionally empty. Errors identified by the NIST tool should be resolved when the field is populated.
MSH	MSH-7	<b>Error</b> <b>Optionality</b> <b>Note</b>	[ELR-014] MSH.7 (Date/Time Of Message) SHALL follow the format YYYYMMDDHHMMSS[.S[S[S[S]]]]+/-ZZZZ Field is Required GMT offset is an optional time formatting element in New Hampshire
SFT	<all>	<b>Error</b> <b>Optionality</b> <b>Note</b>	SFT segments are not required for ELR reporting SFT segment is optional You may ignore all SFT errors
SFT	<none>	<b>Error</b> <b>Optionality</b> <b>Note</b>	Unexpected element before the end of the content (ORU_R01); 'SFT' expected. SFT segment is optional You may ignore all SFT errors
PID	<all>	<b>Error</b> <b>Optionality</b> <b>Note</b>	The element 'PID' does not match the expected element 'SFT'. SFT segment is optional You may ignore all SFT errors
PID	PID-3.4	<b>Error</b> <b>Optionality</b> <b>Note</b>	PID[1].3[1].4 is missing Subfield is optional Provided that PID-3.1 is correctly populated, you may ignore all PID-3 errors
PID	PID-3.5	<b>Error</b> <b>Optionality</b> <b>Note</b>	PID[1].3[1].5 is missing Subfield is optional Provided that PID-3.1 is correctly populated, you may ignore all PID-3 errors
PID	PID-3.6.3	<b>Error</b> <b>Optionality</b> <b>Note</b>	PID Field is Required L,M,N
PID	PID-4	<b>Error</b> <b>Optionality</b> <b>Note</b>	PID[1].4[1] is present whereas it is an unsupported element (X-Usage or W-Usage) Conditional (required for lead reporting) Field is optional
NK1	<none>	<b>Error</b> <b>Optionality</b> <b>Note</b>	The element 'NK1' does not match the expected element 'SFT'. SFT segment is optional You may ignore all SFT errors
ORC	<none>	<b>Error</b> <b>Optionality</b> <b>Note</b>	The element 'ORC' does not match the expected element 'SFT'. SFT segment is optional You may ignore all SFT errors
ORC	ORC-3.3	<b>Error</b>	[ELR-004] EI.3 (Universal ID) SHALL be valued with an ISO-compliant OID.

Segment	Field	Exception	
		<b>Optionality</b>	Required (or empty when information is not available)
		<b>Note</b>	Error can be ignored when non-ISO identifiers are used to populate ORC-3.2
ORC	ORC-3.4	<b>Error</b>	[ELR-005] EI.4 (Universal ID Type) SHALL contain the value 'ISO' .
		<b>Optionality</b>	Required (or empty when information is not available)
		<b>Note</b>	Error can be ignored when non-ISO identifiers are used to populate ORC-3.2
OBR	<none>	<b>Error</b>	The element 'OBR' does not match the expected element 'SFT'.
		<b>Optionality</b>	SFT segment is optional
		<b>Note</b>	You may ignore all SFT errors
OBR	OBR-3.3	<b>Error</b>	[ELR-004] EI.3 (Universal ID) SHALL be valued with an ISO-compliant OID
		<b>Optionality</b>	Required (or empty when information is not available)
		<b>Note</b>	Error can be ignored when non-ISO identifiers are used to populate OBR-3.2
OBR	OBR-3.4	<b>Error</b>	[ELR-005] EI.4 (Universal ID Type) SHALL contain the value 'ISO' .
		<b>Optionality</b>	Required (or empty when information is not available)
		<b>Note</b>	Error can be ignored when non-ISO identifiers are used to populate OBR-3.2
OBR	OBR-22	<b>Error</b>	[ELR-047] OBR.22 (Results Rpt/Status Chng - Date/Time) SHALL follow the format YYYYMMDDHHMM[SS[.S[S[S[S]]]]+/-ZZZZ
		<b>Optionality</b>	Field is Required
		<b>Note</b>	GMT offset is an optional time formatting element in New Hampshire
OBX	<none>	<b>Error</b>	The element 'OBX' does not match the expected element 'SFT'.
		<b>Optionality</b>	SFT segment is optional
		<b>Note</b>	You may ignore all SFT errors
NTE	<none>	<b>Error</b>	The element 'NTE' does not match the expected element 'SFT'.
		<b>Optionality</b>	SFT segment is optional
		<b>Note</b>	You may ignore all SFT errors
SPM	<none>	<b>Error</b>	The element 'SPM' does not match the expected element 'SFT'.
		<b>Optionality</b>	SFT segment is optional
		<b>Note</b>	You may ignore all SFT errors
Various	Various	<b>Error</b>	The value 'L,M,N' specified in the message does not match any of the values in the table '0301'
		<b>Optionality</b>	R
		<b>Note</b>	"L,M,N" is an accepted value for locally coded systems

**NOTE:** Effort has been made to identify known validation tool errors that may be ignored. Given that the State of New Hampshire does not control the NIST validation tool. Future changes made by the National Institute for Standards and Technology may generate errors not presently included in this list.

## APPENDIX VII – Deviation from National ELR Specification

This appendix has been created to assist laboratorians who desire to modify, rather than build, HL7 messages their Laboratory Information System (LIS) may be preconfigured to create. Designated differences come from a cross comparison of New Hampshire’s Local Implementation Guide to the [HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting To Public Health \(US Realm\), Release 1 ORU^R01 HL7 Version 2.5.1 HL7 Ballot Informative September 2009](#) released by the HL7 Organization. This ballot is different from the HL7 implementation guide available through the HL7 store, but the assumption is that the ballot is sufficiently close to the official standard to generate the table below. Within the table below, the “US” column represents field optionality as conveyed through the HL7 implementation ballot, and the “NH” column represents field optionality within this local implementation guide.

FIELD	FIELD NAME	OPTIONALITY		NOTE
		US	NH	
MSH-3	Sending Application	R	O	
MSH-5	Receiving Application	R	O	No special instructions
MSH-17	Country Code	R	O	No special instructions
PID-4	Patient Alternate Identifier (Medicaid ID)	X	C	Conveys patient Medicaid ID in lead results messages
PID-6	Mother’s Maiden Name	RE	O	No field instructions included in guide
PID-7	Patient DOB	RE	C	Field is ‘required’ (R) for lead test reporting, but ‘required or empty’ (RE) for all other reporting
PID-10	Patient Race	RE	C	Field is ‘required’ (R) for lead test reporting, but ‘required or empty’ (RE) for all other reporting
PID-13	Patient Home Phone	RE	C	‘Required’ (R) for lead test results reporting
PID-14	Phone Number – Business	RE	O	No special instructions
PID-18	Patient Account Number	C	O	No special instructions
PID-22	Patient Ethnicity	RE	C	‘Required’ (R) for lead test results reporting
PID-29	Patient Death Date and Time	RE	O	No special instructions
PID-30	Patient Death Indicator	RE	O	No special instructions
PID-33	Last Update Date/Time	RE	O	No special instructions
PID-35	Species Code	RE	O	No special instructions
NK1-2	Name	CE	C	Required’ (R) for lead test results reporting when patient is 16 years of age or less at time of specimen collection
NK1-3	Relationship	RE	C	Required’ (R) for lead test results reporting when patient is 16 years of age or less at time of specimen collection
NK1-4	Address	RE	O	No special instructions
NK1-5	Phone Number	RE	O	No special instructions
NK1-13	Organization Name – NK1	CE	O	No special instructions
NK1-30	Contact Person’s Name	CE	O	No special instructions
NK1-31	Contact Person’s Telephone Number	RE	O	No special instructions
NK1-32	Contact Person’s Address	RE	O	No special instructions
ORC-2	Placer Order Number	CE	O	No special instructions
ORC-4	Placer Group Number	RE	O	No special instructions
ORC-12	Ordering Provider	CE	R	
ORC-14	Call Back Phone Number	CE	R	
ORC-21	Ordering Facility	R	C	‘Required’ (R) for lead test results reporting
ORC-22	Ordering Facility Address	R	C	‘Required’ (R) for lead test results reporting

FIELD	FIELD NAME	OPTIONALITY		NOTE
		US	NH	
ORC-23	Ordering Facility Phone Number	R	C	'Required' (R) for lead test results reporting
ORC-24	Ordering Provider Address	RE	C	'Required' (R) for lead test results reporting
OBR-2	Placer Order Number	RE	O	No special instructions for this field are included in this guide
OBR-4	Requested Observation / Test / Battery	R	O	No special instructions
OBR-8	Observation End Date/Time	CE	O	No special instructions
OBR-13	Relevant Clinical Information	RE	O	No special instructions
OBR-17	Order Callback Phone Number	RE	R	No special instructions
OBR-24	Diagnostic Serv Sect ID	RE	O	No special instructions
OBR-26	Parent Result	CE	O	No special instructions
OBR-28	Result Copies To	RE	O	No special instructions
OBR-29	Parent	CE	O	No special instructions
OBR-31	Reason for Study	RE	O	No special instructions
OBR-32	Principal Result Interpreter	RE	O	No special instructions
OBX-2	Value Type	CE	R	
OBX-4	Observation Sub-ID	CE	C	Required' (R) when two or more OBX segments are needed to return the results from a single lab order code (OBX-3)
OBX-5	Observation Value (Results)	CE	R	
OBX-6	Observation Units	CE	C	Required' (R) for all lead test results, or "Required or Empty' (RE) when OBX-2 contains a 'NM' or 'SN'
OBX-7	References Range	RE	C	Field is 'Required' (R) only with 'SN' results
OBX-8	Abnormal Flags	CE	O	
OBX-11	Observation Result Status (I.e. preliminary, final)	R	RE	
OBX-14	Observation Date/Time	CE	R	
OBX-17	Observation Method	RE	C	
OBX-19	Analysis Date/Time	RE	R	
OBX-23	Resulting Organization Name	R	C	Field is 'Required' (R) except when OBX segment is used to report patient occupation or patient employer information.
OBX-24	Resulting Organization Address	R	C	Field is 'Required' (R) except when OBX segment is used to report patient occupation or patient employer information.
NTE-4	Comment Type	RE	O	No special instructions
SPM-5	Specimen Type Modifier	RE	O	No special instructions
SPM-6	Specimen Additives	RE	O	No special instructions
SPM-9	Specimen Source Site Modifier	RE	O	No special instructions
SPM-11	Specimen Role	RE	O	No special instructions
SPM-12	Specimen Collection Amount	RE	O	No special instructions
SPM-21	Specimen Reject Reason	RE	O	No special instructions

Please note that NH also deviates from the ballot for the national implementation guide by requiring parent/guardian information to be reported within an NK1 segment for all lead test results when the patient is less than 16 years of age at the time the specimen is drawn. Blood lead test results when the patient is 16 years of age or older require the laboratory to report employer and occupation information through OBX segments.



## APPENDIX VIII - NH DPHS Contact Information

For questions about ELR at NH DPHS, please consult our [Meaningful Use website](#), or contact:

NHEDSS Coordinator  
Infectious Disease Surveillance Section  
New Hampshire Division of Public Health Services  
Bureau of Infectious Disease Control  
29 Hazen Drive, Concord, NH 03301-6504  
Phone: 603-271-4496  
Email: [DPHSmu@dhhs.state.nh.us](mailto:DPHSmu@dhhs.state.nh.us)