

n d d Medical Technologies HL7 Mapping Document - Standard Interface for Orders (ORM)

MSH

Description	Field(s)	Example/Comment	Max Segment Length	Required/Recommended/Optional/Not Supported
Message Type	MSH-9.1, 9.2	ORM^001	7	Required

PID

Description	Field(s)	Example/Comment	Max Segment Length	Required/Optional/Not Supported
Patient ID	PID-3.1	2229061	50	Required
Patient Last Name	PID-5.1		50	Recommended
Patient First Name	PID-5.2		50	Recommended
DOB (Date of Birth)	PID-7	YYYYmmDD	14	Required
Gender	PID-8	M or F	1	Required
Patient Account Number	PID-18		20	Optional

PV1

Description	Field(s)	Example/Comment	Max Segment Length	Required/Optional/Not Supported
Referred By	PV1-8.1, 8.2, 8.3	NPI^LASTNAME^FIRSTNAME	255	Optional

ORC

Description	Field(s)	Example/Comment	Max Segment Length	Required/Optional/Not Supported
Order Control	ORC-1	NW	2	Required
Order Create Date/Time	ORC-9	YYYYmmDDhhMMss	14	Optional

OBR

Description	Field(s)	Example/Comment	Max Segment Length	Required/Optional/Not Supported
Order ID	OBR-2.1		255	Required
Test Type** (Universal Service ID)	OBR-4.1		50	Recommended
Requested Date/Time	OBR-6	YYYYmmDDhhMM	14	Optional
Order Comment (Relevant Clinical Info)	OBR-13.1	This is an order comment	255	Optional
Ordered By	OBR-16.1, 16.2, 16.3	NPI^LASTNAME^FIRSTNAME	255	Optional

** Test Types: need to enter corresponding CPT Codes in the Incoming HL7, as follows:

94010 for FVC
 94375 for FVL
 94150 for SVC
 94200 for MVV
 94729 for DLCO
 94727 for FRC

You can send us any Test Type code and we can map to the six that we use to set up the patient record in n d d software.

Sample ORM

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MSH|^~&|SENDING APPLICATION|SENDING FACILITY|NDD|RECEIVING FACILITY|20140419173314|1148|ORM^001|497|D|2.3||
PID|1||20892||APPLESEEDTEST^JOHN^A^MR.^|19661201|M|||||||||
PV1|||||1173^MATTHEWS^JAMES^A^||||||||||||||||||||||||||
ORC|NW|987654|76543|||^20140419170014^|20140419173314|8888^LAST^FIRST^|1173^MATTHEWS^JAMES^A^|1133^222^|(618)222
OBR|1|363463|1858|94375^FVL^|20140419173314|||||Order Comment||1173^MATTHEWS^JAMES^A^|F|^20140418170014^|
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n d d Medical Technologies HL7 Mapping Document - Standard Interface for Results (ORU)

MSH

Description	Field(s)	Example/Comments
Encoding Characters	MSH-02	^~\&
Sending Application	MSH-03	EasyWarePro
Sending Facility	MSH-04	Sending Facility Name
Receiving Application	MSH-05	Receiving Application Name
Receiving Facility	MSH-06	Receiving Facility Name
Date/Time of Message	MSH-07	YYYYmmDDhhMMss
Message Type	MSH-09.1, 09.2	ORU^R01
Message Control ID	MSH-10	YYYYmmDDhhMMss
Processing ID	MSH-11	P
		Valid values include:
		P = Production
		T = Training
		D = Debug (Development)
Version ID	MSH-12	2.5
Accept Acknowledgement Condition	MSH-15	AL
App Acknowledgement Type	MSH-16	NE

PID

Description	Field(s)	Example/Comments
Set ID	PID-01	1
Patient ID	PID-03.1	9999999
Patient Last Name	PID-05.1	
Patient First Name	PID-05.2	
DOB	PID-07	YYYYmmDD
Gender	PID-08	M or F
Patient Account Number	PID-18	123456789

ORC

Description	Field(s)	Example/Comments
Order ID	ORC-02	9999999
Device Serial Number	ORC-03.1	999999
Test Date	ORC-03.2	YYYYmmDDhhMMss

OBR

Description	Field(s)	Example/Comments
Set ID	OBR-01	1
Order ID	OBR-02	9999999
Device Serial Number	OBR-03.1	999999
Test Date	OBR-03.2	YYYYmmDDhhMMss
Universal Service ID (Test Type)	OBR-04.1, 04.2	IDNUMBER^TESTTYPE
Observation Date (Test Time)	OBR-7.1	YYYYmmDDhhMMss
Ordering Provider	OBR-16.1, 16.2, 16.3	NPI^LASTNAME^FIRSTNAME
Time Of Message	OBR-22	YYYYmmDDhhMMss
Result Status	OBR-25	P
		Valid values include:
		C = Correction to results
		F = Final results
		P = Preliminary results
Technician First Name	OBR-34	

NTE

Description	Field(s)	Example/Comments
Source of Comment	NTE-02	P = Orderer (placer)
Test Comment	NTE-03	This is a comment placed by the placer.

OBX (Discrete Data)

Description	Field(s)	Example/Comments
Set ID (Counter)	OBX-01	1
Value Type	OBX-02	NM
		Valid values include:
		ST = String data
		NM = Numeric data
		TX = Text data
Observation Identifier (LOINC) <i>*if available*</i>	OBX-03.1, 03.2, 03.3	LOINC Code^Description^Coding System
Observation Value (result)	OBX-05	x.xx
Units	OBX-06	L (Liters)
Observation Range	OBX-07	>x.xx
Observation Results Status	OBX-11	F (Final)
		Valid values include:
		F = Final
		P = Preliminary
		C = Correction

OBX (Summary Report PDF)

Description	Field(s)	Example/Comments
Set ID (Counter)	OBX-01	1
Value Type	OBX-02	NM
		Valid values include:
		RP = Report
Observation Identifier (LOINC)	OBX-03.1, 03.2, 03.3	^^
Observation Value (result)	OBX-05.1, 5.2, 5.3, 5.4, 5.5	FILEPATH OF THE REPORT ^^AP^PDF

OBX (Summary Report Base64 Embedded*)

Description	Field(s)	Example/Comments
Set ID (Counter)	OBX-01	1
Value Type	OBX-02	NM
		Valid values include:
		ED = Embedded Document
Observation Identifier (LOINC)	OBX-03.1, 03.2, 03.3	^Report^
Observation Value (result)	OBX-05.1, 5.2, 5.3, 5.4, 5.5	^AP^PDF^Base64^CONTENT OF THE EMBEDDED DOCUMENT

Sample ORU message

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MSH|^~\&|EasyWarePro|DemoLab|DemoApp|DemoFacility|20200511102903||ORU^R01|2020051110290351|D|2.5||AL|NE
PID|1||20892||APPLESEEDTEST^JOHN^^^^||19661201|M||||||11480003|||
ORC||363463|243485^20200506100638494
OBR|1|363463|243485^20200506100638494|94010^FVC|||202005061006|||||1173^MATTHEWS^JAMES|||||20200511102903||P||||
|||&&|||
NTE|P|
OBX|1|NM|19870-5^FVC^LN||4.76|L|>4.97|L||P|
OBX|2|NM|20150-9^FEV1^LN||3.82|L|>3.92|L||P|
OBX|3|NM|19926-5^FEV1/FVC^LN||0.802||>0.693|||P|
OBX|4|NM|19927-3^FEF 25-75%^LN||3.57|L/s|>2.54|||P|
OBX|5|NM|33452-4^PEF^LN||447|L/min|>514|L||P|
OBX|6|NM|65819-5^FET^LN||4.0|s|||P|
OBX|7|ED|^Report||^AP^PDF^Base64^EMBEDDED DATA TEXT GOES HERE|||||
  
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