NIST HL7 V2 Validation Tool Test Data

Electronic Directory Of Service (eDOS)

Version 1.0

13th March, 2015

eDOS Test Case EDOS_2.5_2.1-M10_GU

M10_Update_revise_postCombo

Test Story

Description

The originator of the eDOS is the Century Hospital Clinical Laboratory located at 2070 Test Park, Los Angeles, CA, 90067, CLIA: 24D9871327, phone number: (310) 461-3666.
The Sender is the Century Hospital Clinical Laboratory LIS.
The Receiver is Dr. Radon's Office EHR.

The Laboratory Test Compendium from Century Hospital Clinical Laboratory is a subset of their Directory of Services. It is based upon the most commonly ordered lab tests by Dr. Radon. This compendium is being used by Dr. Nicholas Radon's practice EHR to place orders electronically to Century Hospital's Clinical Laboratory. Century Hospital's has revised the Lipid panel and made its components orderable.
Century Hospital's LIS transmits the appropriate eDOS update message to revise this information in Dr. Radon's EHR.

Comments

Update message to change a panel that was part of a previous update of the compendium. This update revises the Lipid panel.

PreCondition

EDOS_1.0_1.1-M08_New
and
EDOS_1.0_2.1-M10_New
and
EDOS_1.0_3.1-M04_New
and
EDOS_2.4_1.1-M08_Update_combo
and
EDOS_2.4_2.1-M10_Update_combo
and
EDOS_2.4_3.1-M04_Update_combo
and
EDOS_2.5_1.1-M08_Update_revise_postCombo
have been completed.

PostCondition

No Post-Conditions.

TestObjectives

- Demonstrate capability to support a M10 update message- action: subsequent update to information previously sent via an update message.
- Demonstrate capability to support all supported data elements, including repeating fields in the OM5 segment.
- Demonstrate capability to support repeating segments for OM4.

Notes to Testers

No Notes.

Message Content Data Sheet

Test Case Information

EDOS_2.5_2.1-M10_GU - M10_Update_revise_postCombo	
Test Case ID	EDOS_2.5_2.1-M10_GU

MSH :

Location	Data Element	Data	Categorization
MSH.1	Field Separator	|	IG Fixed Data
MSH.2	Encoding Characters	^~\&#	IG Fixed Data
MSH.3	Sending Application		
MSH.3.1	Namespace ID	NIST Test Lab APP	Configurable Data
MSH.3.2	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
MSH.3.3	Universal ID Type	ISO	IG Fixed Data
MSH.4	Sending Facility		
MSH.4.1	Namespace ID	NIST Lab Facility	Configurable Data
MSH.4.2	Universal ID	2.16.840.1.113883.3.72.5.21	Configurable Data
MSH.4.3	Universal ID Type	ISO	IG Fixed Data
MSH.6	Receiving Facility		
MSH.6.1	Namespace ID	NIST EHR Facility	Configurable Data
MSH.6.2	Universal ID	2.16.840.1.113883.3.72.5.23	Configurable Data
MSH.6.3	Universal ID Type	ISO	IG Fixed Data
MSH.7	Date/Time Of Message		
MSH.7.1	Time	20130421113601-0700	System Generated
MSH.9	Message Type		
MSH.9.1	Message Code	MFN	IG Fixed Data
MSH.9.2	Trigger Event	M10	IG Fixed Data
MSH.9.3	Message Structure	MFN_M10	IG Fixed Data
MSH.10	Message Control ID	EDOS_2.5_2.1-M10_GU	System Generated
MSH.11	Processing ID		
MSH.11.1	Processing ID	T	Changeable Data
MSH.12	VersionID		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.15	Accept Acknowledgment Type	AL	Changeable Data

MSH.16	**Application Acknowledgment Type**	NE	Changeable Data
MSH.21[1]	**Message Profile Identifier**		
MSH.21[1].1	Entity Identifier	EDOS_Common_Component	Test Case Fixed Data
MSH.21[1].2	Namespace ID	EDOS Base Profile	Changeable Data
MSH.21[1].3	Universal ID	2.16.840.1.113883.9.67	Test Case Fixed Data
MSH.21[1].4	Universal ID Type	ISO	IG Fixed Data
MSH.21[2]	**Message Profile Identifier**		
MSH.21[2].1	Entity Identifier	EDOS_GU_Component	Test Case Fixed Data
MSH.21[2].2	Namespace ID	EDOS GU Profile	Changeable Data
MSH.21[2].3	Universal ID	2.16.840.1.113883.9.68	Test Case Fixed Data
MSH.21[2].4	Universal ID Type	ISO	IG Fixed Data

MFI :

Location	Data Element	Data	Categorization
MFI.1	**Master File Identifier**		
MFI.1.1	Identifier	OMC	IG Fixed Data
MFI.1.2	Text	Observation batteries master file	Changeable Data
MFI.1.3	Name of Coding System	HL70175	IG Fixed Data
MFI.1.7	Coding System Version ID	2.5.1	Test Case Fixed Data
MFI.3	**File-Level Event Code**	UPD	Test Case Fixed Data
MFI.6	**Response Level Code**	NE	IG Fixed Data

MFE :

Location	Data Element	Data	Categorization
MFE.1	**Record-Level Event Code**	MUP	Test Case Fixed Data
MFE.3	**Effective Date/Time**		
MFE.3.1	Time	20131219145310	System Generated
MFE.4	**Primary Key Value - MFE**		
MFE.4.1	Identifier	400.1	Changeable Data
MFE.4.2	Text	Lipid Panel - direct LDL	Changeable Data
MFE.4.3	Name of Coding System	99USI	Changeable Data
MFE.4.7	Coding System Version ID	20130421	Changeable Data
MFE.5	**Primary Key Value Type**	CWE	IG Fixed Data

OM1 :

Location	Data Element	Data	Categorization
OM1.1	Sequence Number - Test/Observation Master File	1	IG Fixed Data
OM1.2	Producer's Service/Test/Observation ID		
OM1.2.1	Identifier	400.1	Changeable Data
OM1.2.2	Text	Lipid Panel - direct LDL	Changeable Data
OM1.2.3	Name of Coding System	99USI	Changeable Data
OM1.2.7	Coding System Version ID	20130421	Changeable Data
OM1.4	Specimen Required	Y	Changeable Data
OM1.5	Producer ID		
OM1.5.1	Identifier	05D0669071	Changeable Data
OM1.5.2	Text	Century Hospital Clinical Laboratory	Changeable Data
OM1.5.3	Name of Coding System	99USI	Changeable Data
OM1.5.7	Coding System Version ID	2013	Changeable Data
OM1.7	Other Service/Test/Observation IDs for the Observation		
OM1.7.1	Identifier	57698-3	Test Case Fixed Data
OM1.7.2	Text	Lipid panel with direct LDL - Serum or Plasma	Changeable Data
OM1.7.3	Name of Coding System	LN	Test Case Fixed Data
OM1.7.7	Coding System Version ID	2.44	Changeable Data
OM1.9	Preferred Report Name for the Observation	Lipid Panel - direct LDL	Changeable Data
OM1.12	Orderability	Y	Test Case Fixed Data
OM1.18	Nature of Service/Test/Observation	P	IG Fixed Data
OM1.32[1]	Interpretation of Observations	Used to assess patient risk for heart disease. This panel includes a total cholesterol, triglycerides, high density lipoprotein cholesterol (HDLC) and a low density lipoprotein cholesterol (LDLC).	Changeable Data
OM1.39	Factors that may Affect the Observation	Insufficient specimen, Improper labeling	Changeable Data
OM1.40[1]	Service/Test/Observation Performance Schedule	Monday through Friday	Changeable Data
OM1.48	Exclusive Test	N	Changeable Data
OM1.49	Diagnostic Service Sector ID	LAB	Changeable Data
OM1.57[1]	Expected Turn-Around Time		

OM1.57[1].1	Quantity	1	Changeable Data
OM1.57[1].2	Units		
OM1.57[1].2.2	Text	day	Changeable Data

OM5 :

Location	Data Element	Data	Categorization
OM5.1	**Sequence Number - Test/Observation Master File**	1	IG Fixed Data
OM5.2[1]	**Test/Observations Included Within an Ordered Test Battery**		
OM5.2[1].1	Identifier	412	Test Case Fixed Data
OM5.2[1].2	Text	Cholesterol (total), serum	Test Case Fixed Data
OM5.2[1].3	Name of Coding System	99USI	Test Case Fixed Data
OM5.2[1].4	Alternate Identifier	2093-3	Changeable Data
OM5.2[1].5	Alternate Text	Cholesterol [Mass/volume] in Serum or Plasma	Changeable Data
OM5.2[1].6	Name of Alternate Coding System	LN	Changeable Data
OM5.2[2]	**Test/Observations Included Within an Ordered Test Battery**		
OM5.2[2].1	Identifier	414	Test Case Fixed Data
OM5.2[2].2	Text	High density lipoprotein cholesterol, serum (HDL)	Test Case Fixed Data
OM5.2[2].3	Name of Coding System	99USI	Test Case Fixed Data
OM5.2[2].4	Alternate Identifier	2085-9	Changeable Data
OM5.2[2].5	Alternate Text	Cholesterol in HDL [Mass/volume] in Serum or Plasma	Changeable Data
OM5.2[2].6	Name of Alternate Coding System	LN	Changeable Data
OM5.2[3]	**Test/Observations Included Within an Ordered Test Battery**		
OM5.2[3].1	Identifier	410	Test Case Fixed Data
OM5.2[3].2	Text	Low density lipoprotein cholesterol, serum (LDL) - measured	Test Case Fixed Data
OM5.2[3].3	Name of Coding System	99USI	Test Case Fixed Data
OM5.2[3].4	Alternate Identifier	2089-1	Changeable Data

OM5.2[3].5	Alternate Text	Cholesterol in LDL [Mass/volume] in Serum or Plasma	Changeable Data
OM5.2[3].6	Name of Alternate Coding System	LN	Changeable Data
OM5.2[4]	**Test/Observations Included Within an Ordered Test Battery**		
OM5.2[4].1	Identifier	418	Test Case Fixed Data
OM5.2[4].2	Text	Triglycerides, serum	Test Case Fixed Data
OM5.2[4].3	Name of Coding System	99USI	Test Case Fixed Data
OM5.2[4].4	Alternate Identifier	2571-8	Changeable Data
OM5.2[4].5	Alternate Text	Triglyceride [Mass/volume] in Serum or Plasma	Changeable Data
OM5.2[4].6	Name of Alternate Coding System	LN	Changeable Data

OM4 :

Location	Data Element	Data	Categorization
OM4.1	**Sequence Number - Test/Observation Master File**	1.1	IG Fixed Data
OM4.3[1]	**Container Description**	Serum Gel Tube (SGT)	Changeable Data
OM4.4[1]	**Container Volume**	8.5	Changeable Data
OM4.5[1]	**Container Units**		
OM4.5[1].1	Identifier	mL	Changeable Data
OM4.5[1].2	Text	milliliter	Changeable Data
OM4.5[1].3	Name of Coding System	UCUM	Changeable Data
OM4.5[1].7	Coding System Version ID	1.8	Changeable Data
OM4.6	**Specimen**		
OM4.6.1	Identifier	119364003	Test Case Fixed Data
OM4.6.2	Text	Serum specimen	Changeable Data
OM4.6.3	Name of Coding System	SCT	Test Case Fixed Data
OM4.6.7	Coding System Version ID	20130731	Changeable Data
OM4.7	**Additive**		
OM4.7.1	Identifier	SST	Changeable Data
OM4.7.2	Text	Serum Separator Tube (Polymer Gel)	Changeable Data
OM4.7.3	Name of Coding System	HL70371	Changeable Data
OM4.7.7	Coding System Version ID	2.5.1	Changeable Data
OM4.10	**Normal Collection Volume**		
OM4.10.1	Quantity	0.5	Changeable Data

Location	Data Element	Data	Categorization
OM4.10.2	Units		
OM4.10.2.1	Identifier	mL	Changeable Data
OM4.10.2.2	Text	milliliter	Changeable Data
OM4.10.2.3	Name of Coding System	UCUM	Changeable Data
OM4.10.2.7	Coding System Version ID	1.8	Changeable Data
OM4.11	**Minimum Collection Volume**		
OM4.11.1	Quantity	0.25	Changeable Data
OM4.11.2	Units		
OM4.11.2.1	Identifier	mL	Changeable Data
OM4.11.2.2	Text	milliliter	Changeable Data
OM4.11.2.3	Name of Coding System	UCUM	Changeable Data
OM4.11.2.7	Coding System Version ID	1.8	Changeable Data
OM4.12	**Specimen Requirements**	Keep at room temperature	Changeable Data
OM4.15[1]	**Specimen Handling Code**		
OM4.15[1].1	Identifier	AMB	Changeable Data
OM4.15[1].2	Text	Ambient temperature	Changeable Data
OM4.15[1].3	Name of Coding System	HL70376	Changeable Data
OM4.15[1].7	Coding System Version ID	2.5.1	Changeable Data
OM4.16	**Specimen Preference**	P	Test Case Fixed Data

OM4 :

Location	Data Element	Data	Categorization
OM4.1	**Sequence Number - Test/Observation Master File**	1.2	IG Fixed Data
OM4.3[1]	**Container Description**	Red, No Additive tube	Changeable Data
OM4.4[1]	**Container Volume**	10	Changeable Data
OM4.5[1]	**Container Units**		
OM4.5[1].1	Identifier	mL	Changeable Data
OM4.5[1].2	Text	milliliter	Changeable Data
OM4.5[1].3	Name of Coding System	UCUM	Changeable Data
OM4.5[1].7	Coding System Version ID	1.8	Changeable Data
OM4.6	**Specimen**		
OM4.6.1	Identifier	119364003	Test Case Fixed Data
OM4.6.2	Text	Serum specimen	Changeable Data
OM4.6.3	Name of Coding System	SCT	Test Case Fixed Data
OM4.6.7	Coding System Version ID	20130731	Changeable Data
OM4.10	**Normal Collection Volume**		
OM4.10.1	Quantity	0.5	Changeable Data

OM4.10.2	Units		
OM4.10.2.1	Identifier	mL	Changeable Data
OM4.10.2.2	Text	milliliter	Changeable Data
OM4.10.2.3	Name of Coding System	UCUM	Changeable Data
OM4.10.2.7	Coding System Version ID	1.8	Changeable Data
OM4.11	**Minimum Collection Volume**		
OM4.11.1	Quantity	0.25	Changeable Data
OM4.11.2	Units		
OM4.11.2.1	Identifier	mL	Changeable Data
OM4.11.2.2	Text	milliliter	Changeable Data
OM4.11.2.3	Name of Coding System	UCUM	Changeable Data
OM4.11.2.7	Coding System Version ID	1.8	Changeable Data
OM4.12	**Specimen Requirements**	Keep at room temperature	Changeable Data
OM4.15[1]	**Specimen Handling Code**		
OM4.15[1].1	Identifier	AMB	Changeable Data
OM4.15[1].2	Text	Ambient temperature	Changeable Data
OM4.15[1].3	Name of Coding System	HL70376	Changeable Data
OM4.15[1].7	Coding System Version ID	2.5.1	Changeable Data
OM4.16	**Specimen Preference**	A	Test Case Fixed Data
OM4.17	**Preferred Specimen/Attribute Sequence**	1.1	Test Case Fixed Data

Test Data Specification

Master File Identification

Element name	Data
File-Level Event Code	Change file records as defined in the record-level event codes for each record that follows

Battery information [1]

Master File Entry

Element name	Data
Record-Level Event Code	Update record for master file
Effective Date/Time	2013-12-19 2:53:10pm
Primary Key Value - MFE	Lipid Panel - direct LDL

General Segment

Element name	Data
Specimen Required	Yes
Producer ID	Century Hospital Clinical Laboratory
Other Service/Test/Observation IDs for the Observation	Lipid panel with direct LDL - Serum or Plasma
Preferred Report Name for the Observation	Lipid Panel - direct LDL
Orderability	Yes
Nature of Service/Test/Observation	P
Interpretation of Observations	Used to assess patient risk for heart disease. This panel includes a total cholesterol, triglycerides, high density lipoprotein cholesterol (HDLC) and a low density lipoprotein cholesterol (LDLC).
Factors that may Affect the Observation	Insufficient specimen, Improper labeling
Service/Test/Observation Performance Schedule	Monday through Friday
Exclusive Test	This test can be included with any number of other tests
Diagnostic Service Sector ID	Laboratory
Expected Turn-Around Time	1 day

Observation batteries

Element name	Data
Test/Observations Included Within an Ordered Test Battery [1]	Cholesterol (total), serum
Test/Observations Included Within an Ordered Test Battery [2]	High density lipoprotein cholesterol, serum (HDL)
Test/Observations Included Within an Ordered Test Battery [3]	Low density lipoprotein cholesterol, serum (LDL) - measured

Test/Observations Included Within an Ordered Test Battery [4]	Triglycerides, serum

Observations that Require Specimens

Element name	Data
Sequence Number - Test/Observation Master File	1.1
Container Description	Serum Gel Tube (SGT)
Container Volume	8.5
Container Units	milliliter
Specimen	Serum specimen
Additive	Serum Separator Tube (Polymer Gel)
Normal Collection Volume	0.5 milliliter
Minimum Collection Volume	0.25 milliliter
Specimen Requirements	Keep at room temperature
Specimen Handling Code	Ambient temperature
Specimen Preference	Preferred

Observations that Require Specimens

Element name	Data
Sequence Number - Test/Observation Master File	1.2
Container Description	Red, No Additive tube
Container Volume	10
Container Units	milliliter
Specimen	Serum specimen
Normal Collection Volume	0.5 milliliter
Minimum Collection Volume	0.25 milliliter
Specimen Requirements	Keep at room temperature
Specimen Handling Code	Ambient temperature
Specimen Preference	Alternate
Preferred Specimen/Attribute Sequence ID	1.1

HL7 Message

MSH|^~\&#|NIST Test Lab APP^2.16.840.1.113883.3.72.5.20^ISO|NIST Lab Facility^2.16.840.1.113883.3.72.5.21^ISO||NIST EHR Facility^2.16.840.1.113883.3.72.5.23^ISO|20130421113601-0700||MFN^M10^MFN_M10|EDOS_2.5_2.1-M10_GU|T|2.5.1|||AL|NE|||||EDOS_Common_Component^EDOS Base Profile^2.16.840.1.113883.9.67^ISO~EDOS_GU_Component^EDOS GU Profile^2.16.840.1.113883.9.68^ISO

MFI|OMC^Observation batteries master file^HL70175^^^^2.5.1||UPD|||NE

MFE|MUP||20131219145310|400.1^Lipid Panel - direct LDL^99USI^^^^20130421|CWE

OM1|1|400.1^Lipid Panel - direct LDL^99USI^^^^20130421||Y|05D0669071^Century Hospital Clinical Laboratory^99USI^^^^2013||57698-3^Lipid panel with direct LDL - Serum or Plasma^LN^^^^2.44||Lipid Panel - direct LDL|||Y|||||P|||||||||||||Used to assess patient risk for heart disease. This panel includes a total cholesterol, triglycerides, high density lipoprotein cholesterol (HDLC) and a low density lipoprotein cholesterol (LDLC).|||||||Insufficient specimen, Improper labeling|Monday through Friday||||||||N|LAB||||||||1^&day

OM5|1|412^Cholesterol (total), serum^99USI^2093-3^Cholesterol [Mass/volume] in Serum or Plasma^LN~414^High density lipoprotein cholesterol, serum (HDL)^99USI^2085-9^Cholesterol in HDL [Mass/volume] in Serum or Plasma^LN~410^Low density lipoprotein cholesterol, serum (LDL) - measured^99USI^2089-1^Cholesterol in LDL [Mass/volume] in Serum or Plasma^LN~418^Triglycerides, serum^99USI^2571-8^Triglyceride [Mass/volume] in Serum or Plasma^LN

OM4|1.1||Serum Gel Tube (SGT)|8.5|mL^milliliter^UCUM^^^^1.8|119364003^Serum specimen^SCT^^^^20130731|SST^Serum Separator Tube (Polymer Gel)^HL70371^^^^2.5.1|||0.5^mL&milliliter&UCUM&&&&1.8|0.25^mL&milliliter&UCUM&&&&1.8|Keep at room temperature|||AMB^Ambient temperature^HL70376^^^^2.5.1|P

OM4|1.2||Red, No Additive tube|10|mL^milliliter^UCUM^^^^1.8|119364003^Serum specimen^SCT^^^^20130731||||0.5^mL&milliliter&UCUM&&&&1.8|0.25^mL&milliliter&UCUM&&&&1.8|Keep at room temperature|||AMB^Ambient temperature^HL70376^^^^2.5.1|A|1.1