

#### Description

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-S 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\_1.0\_4.1-M18\_New\_Approved  
and  
EDOS\_1.0\_5.1-M18\_New\_Limited  
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\_2.4\_4.1-M18\_Update\_Combo  
and  
EDOS\_2.5\_1.1-M08\_Update\_Revise\_PostCombo  
have been completed.

#### PostCondition

eDOS M08 and M10 data elements are incorporated appropriately into the EHR-S.

#### 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.

## Test Case Information

## EDOS\_2.5\_2.1-M10-NG - M10\_Update\_revise\_postCombo

Test Case ID

EDOS\_2.5\_2.1-M10\_NG

## 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.4	Sending Facility		
MSH.4.1	Namespace ID	NIST Lab Facility	Configurable Data
MSH.6	Receiving Facility		
MSH.6.1	Namespace ID	NIST EHR Facility	Configurable 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-NG	System Generated
MSH.11	Processing ID		
MSH.11.1	Processing ID	D	Changeable Data
MSH.12	VersionID		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.21	Message Profile Identifier		
MSH.21.1	Entity Identifier	EDOS_Common_Component	Test Case Fixed Data
MSH.21.2	Namespace ID	EDOS Base Profile	Changeable Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.67	Test Case Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data
MSH.21[2]	Message Profile Identifier		
MSH.21[2].1	Entity Identifier	EDOS_NG_Component	Test Case Fixed Data
MSH.21[2].2	Namespace ID	EDOS NG Profile	Changeable Data
MSH.21[2].3	Universal ID	2.16.840.1.113883.9.69	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	99USL	Changeable Data

MFE.4.7	Coding System Version ID	20130421	Changeable Data
Location	Data Element	Data	Categorization
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	99USL	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	99USL	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	Test Case Fixed Data
OM1.32	Interpretation of Observations	Used to assess patient risk for heart disease. This panel includes a total cholesterol, triglycerides, high density lipoprotein cholesterol (HDL) and a low density lipoprotein cholesterol (LDL).	Changeable Data
OM1.39	Factors that may Affect the Observation	Insufficient specimen, Improper labeling.	Changeable Data
OM1.40	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	Expected Turn-Around Time		
OM1.57.1	Quantity	1	Changeable Data
OM1.57.2	Units		
OM1.57.2.2	Text	day	Changeable Data

#### OM5

Location	Data Element	Data	Categorization
OM5.1	Sequence Number - Test/Observation Master File	1	IG Fixed Data
OM5.2	Test/Observations Included Within an Ordered Test Battery		
OM5.2.1	Identifier	412	Test Case Fixed Data
OM5.2.2	Text	Cholesterol (total), serum	Test Case Fixed Data
OM5.2.3	Name of Coding System	99USL	Test Case Fixed Data
OM5.2.4	Alternate Identifier	2093-3	Changeable Data
OM5.2.5	Alternate Text	Cholesterol [Mass/volume] in Serum or Plasma	Changeable Data
OM5.2.6	Name of Alternate Coding System	LN	Changeable Data
	Test/Observations Included Within an		

Location	Ordered Test Battery	Data Element	Data	Categorization
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		99USL	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
<b>OM5.2[3]</b>	<b>Test/Observations Included Within an Ordered Test Battery</b>			
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		99USL	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
<b>OM5.2[4]</b>	<b>Test/Observations Included Within an Ordered Test Battery</b>			
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		99USL	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
<b>OM4.1</b>	<b>Sequence Number - Test/Observation Master File</b>	1.1	IG Fixed Data
<b>OM4.3</b>	<b>Container Description</b>	Serum Gel Tube (SGT)	Changeable Data
<b>OM4.4</b>	<b>Container Volume</b>	8.5	Changeable Data
<b>OM4.5</b>	<b>Container Units</b>		
OM4.5.1	Identifier	mL	Changeable Data
OM4.5.2	Text	milliliter	Changeable Data
OM4.5.3	Name of Coding System	UCUM	Changeable Data
OM4.5.7	Coding System Version ID	1.8	Changeable Data
<b>OM4.6</b>	<b>Specimen</b>		
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
<b>OM4.7</b>	<b>Additive</b>		
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
<b>OM4.10</b>	<b>Normal Collection Volume</b>		
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
<b>OM4.11</b>	<b>Minimum Collection Volume</b>		
OM4.11.1	Quantity	0.25	Changeable Data

Location	Units	Data Element	Data	Categorization
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
<b>OM4.12</b>	<b>Specimen Requirements</b>		Keep at room temperature	Changeable Data
<b>OM4.15</b>	<b>Specimen Handling Code</b>			
OM4.15.1	Identifier		AMB	Changeable Data
OM4.15.2	Text		Ambient temperature	Changeable Data
OM4.15.3	Name of Coding System		HL70376	Changeable Data
OM4.15.7	Coding System Version ID		2.5.1	Changeable Data
<b>OM4.16</b>	<b>Specimen Preference</b>		P	Test Case Fixed Data

#### OM4

Location	Units	Data Element	Data	Categorization
<b>OM4.1</b>		<b>Sequence Number - Test/Observation Master File</b>	1.2	IG Fixed Data
<b>OM4.3</b>		<b>Container Description</b>	Red, No Additive tube	Changeable Data
<b>OM4.4</b>		<b>Container Volume</b>	10	Changeable Data
<b>OM4.5</b>		<b>Container Units</b>		
OM4.5.1	Identifier		mL	Changeable Data
OM4.5.2	Text		milliliter	Changeable Data
OM4.5.3	Name of Coding System		UCUM	Changeable Data
OM4.5.7	Coding System Version ID		1.8	Changeable Data
<b>OM4.6</b>		<b>Specimen</b>		
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
<b>OM4.10</b>		<b>Normal Collection Volume</b>		
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
<b>OM4.11</b>		<b>Minimum Collection Volume</b>		
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
<b>OM4.12</b>		<b>Specimen Requirements</b>	Keep at room temperature	Changeable Data
<b>OM4.15</b>		<b>Specimen Handling Code</b>		
OM4.15.1	Identifier		AMB	Changeable Data
OM4.15.2	Text		Ambient temperature	Changeable Data
OM4.15.3	Name of Coding System		HL70376	Changeable Data
OM4.15.7	Coding System Version ID		2.5.1	Changeable Data
<b>OM4.16</b>		<b>Specimen Preference</b>	A	Test Case Fixed Data
<b>OM4.17</b>		<b>Preferred Specimen/Attribute Sequence</b>	1.1	Test Case Fixed Data

Element	Data
Identifier	OMC
Event code	UPD

Panel/Test battery Information - Lipid Panel - direct LDL

Record information

Element	Data
Event code	MUP
Effective date and time	20131219145310
Test/Panel Name	Lipid Panel - direct LDL
Test/Panel identifier (code system)	400.1 (99USL)

General information

Element	Data
Specimen required ?	Y
Test/Panel other name	Lipid panel with direct LDL - Serum or Plasma
Test/Panel other identifier (code system)	57698-3 (LN)
Preferred Report Name	Lipid Panel - direct LDL
Is the test/panel orderable ?	Y
Nature	P
Interpretation	Used to assess patient risk for heart disease. This panel includes a total cholesterol, triglycerides, high density lipoprotein cholesterol (HDL) and a low density lipoprotein cholesterol (LDL).
Factors that may affect the test	Insufficient specimen, Improper labeling.
Schedule	Monday through Friday
Is the test exclusive ?	N
Diagnostic Service Sector	LAB
Expected turn around time	1 day

Panel/Test battery Details

Element	Data
Test included in panel/test battery	Cholesterol (total), serum
Test included in panel/test battery (code & code system)	412 (99USL)
Test included in panel/test battery	High density lipoprotein cholesterol, serum (HDL)
Test included in panel/test battery (code & code system)	414 (99USL)
Test included in panel/test battery	Low density lipoprotein cholesterol, serum (LDL) - measured
Test included in panel/test battery (code & code system)	410 (99USL)
Test included in panel/test battery	Triglycerides, serum
Test included in panel/test battery (code & code system)	418 (99USL)

Specimen information details

Element	Data
Sequence ID	1.1
Container description	Serum Gel Tube (SGT)
Container volume	8.5
Container units	milliliter
Container units (code & code system)	mL (UCUM)
Specimen (code & code system)	119364003 (SCT)
Specimen (code & code system)	SST (HL70371)
Normal collection volume	0.5
Normal collection volume unit	milliliter
Normal collection volume unit (code & code system)	mL (UCUM)
Normal collection volume	0.25
Normal collection volume unit	milliliter

Normal collection volume unit (code & code system)	mL (UCUM)
Specimen Requirements	Keep at room temperature
Specimen Handling Code	Ambient temperature
Specimen Handling Code (code & code system)	AMB (HL70376)
Specimen Preference	P

Specimen information details

Element	Data
Sequence ID	1.2
Container description	Red, No Additive tube
Container volume	10
Container units	milliliter
Container units (code & code system)	mL (UCUM)
Specimen (code & code system)	119364003 (SCT)
Normal collection volume	0.5
Normal collection volume unit	milliliter
Normal collection volume unit (code & code system)	mL (UCUM)
Normal collection volume	0.25
Normal collection volume unit	milliliter
Normal collection volume unit (code & code system)	mL (UCUM)
Specimen Requirements	Keep at room temperature
Specimen Handling Code	Ambient temperature
Specimen Handling Code (code & code system)	AMB (HL70376)
Specimen Preference	A
Preferred Specimen Sequence ID	1.1

MSH|^~&#|NIST Test Lab APP|NIST Lab Facility||NIST EHR Facility|20130421113601-0700||MFN^M10^MFN\_M10|EDOS\_2.5\_2.1-M10-NG|D|2.5.1|||||||EDOS\_Common\_Component^EDOS Base Profile^2.16.840.1.113883.9.67^ISO~EDOS\_NG\_Component^EDOS NG Profile^2.16.840.1.113883.9.69^ISO

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

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

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

OM5|1|412^Cholesterol (total), serum^99USL^2093-3^Cholesterol [Mass/volume] in Serum or Plasma^LN~414^High density lipo  
protein cholesterol, serum (HDL)^99USL^2085-9^Cholesterol in HDL [Mass/volume] in Serum or Plasma^LN~410^Low density lip  
oprotein cholesterol, serum (LDL) - measured^99USL^2089-1^Cholesterol in LDL [Mass/volume] in Serum or Plasma^LN~418^Tri  
glycerides, serum^99USL^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 Separato  
r Tube (Polymer Gel)^HL70371^^^^2.5.1|||0.5^mL&milliliter&UCUM&&&&1.8|0.25^mL&milliliter&UCUM&&&&1.8|Keep at room temper  
ature|||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&millilit  
er&UCUM&&&&1.8|0.25^mL&milliliter&UCUM&&&&1.8|Keep at room temperature|||AMB^Ambient  
temperature^HL70376^^^^2.5.1|A|1.1