

#### 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 Laboratory had decided to no longer offer the sedimentation rate test and Century Hospital's LIS transmits the appropriate eDOS update messages to Dr. Radon's EHR-S to deprecate this orderable test.

#### Comments

Update message to deactivate a no longer offered test (individual observation).

#### 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  
have been uploaded.

#### PostCondition

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

#### TestObjectives

- Demonstrate capability to support a M08 update message - action: deactivate.
- Demonstrate capability to support repeating segments for OM4.
- Demonstrate capability to support the repeating field in OM1-51 (Other Names), OM1-54 (Special Instructions), and OM4-15 (Specimen Handling Code).

## Test Case Information

## EDOS\_2.0\_1.1-M08-NG - M08\_Update\_deactivate

Test Case ID

EDOS\_2.0\_1.1-M08\_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	M08	IG Fixed Data
MSH.9.3	Message Structure	MFN_M08	IG Fixed Data
MSH.10	Message Control ID	EDOS_2.0_1.1-M08-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	OMM	IG Fixed Data
MFI.1.2	Text	Mixed type observation 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	MDC	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	500	Changeable Data
MFE.4.2	Text	Erythrocyte sedimentation rate	Changeable Data
MFE.4.3	Name of Coding System	99USL	Changeable Data

MFE.4.7	Coding System Version ID	20130421	Changeable Data
<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
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	500	Changeable Data
OM1.2.2	Text	Erythrocyte sedimentation rate	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	30341-2	Test Case Fixed Data
OM1.7.2	Text	Erythrocyte sedimentation rate	Changeable Data
OM1.7.3	Name of Coding System	LN	Test Case Fixed Data
OM1.7.7	Coding System Version ID	2.42	Changeable Data
OM1.9	Preferred Report Name for the Observation	Erythrocyte Sedimentation Rate	Changeable Data
OM1.12	Orderability	Y	Test Case Fixed Data
OM1.18	Nature of Service/Test/Observation	A	Test Case Fixed Data
OM1.32	Interpretation of Observations	The erythrocyte sedimentation rate is a nonspecific measure of inflammatory disease.	Changeable Data
OM1.39	Factors that may Affect the Observation	Insufficient blood, Clotting, Hemolysis, Blood specimen received > 12 hours after collection.	Changeable Data
OM1.40	Service/Test/Observation Performance Schedule	Daily	Changeable Data
OM1.48	Exclusive Test	N	Changeable Data
OM1.49	Diagnostic Service Sector ID	LAB	Changeable Data
OM1.51	Other Names	Westergren	Changeable Data
OM1.51[2]	Other Names	Sed Rate	Changeable Data
OM1.52	Replacement Producer's Service/Test/Observation ID		
OM1.52.1	Identifier	815120	Changeable Data
OM1.52.2	Text	Erythrocyte sedimentation rate, Automated	Changeable Data
OM1.52.3	Name of Coding System	99USL	Changeable Data
OM1.52.7	Coding System Version ID	20130421	Changeable Data
OM1.54	Special Instructions	Please include tentative diagnosis/treatment on the request form.	Changeable Data
OM1.54[2]	Special Instructions	Please direct any questions regarding this test to the hematology division.	Changeable Data
OM1.55	Test Relationship Category		
OM1.55.1	Identifier	CP	Changeable Data
OM1.55.2	Text	Clinical Pathology	Changeable Data
OM1.55.3	Name of Coding System	99USL	Changeable Data
OM1.55.7	Coding System Version ID	2015	Changeable Data
OM1.55[2]	Test Relationship Category		
OM1.55[2].1	Identifier	HM	Changeable Data
OM1.55[2].2	Text	Haematology	Changeable Data

Location	Data Element	Data	Categorization
OM1.55[2].3	Name of Coding System	99USL	Changeable Data
OM1.55[2].7	Coding System Version ID	2015	Changeable Data
<b>OM1.56</b>	<b>Observation Identifier associated with Producer's Service/Test/Observation ID</b>		
OM1.56.1	Identifier	30341-2	Changeable Data
OM1.56.2	Text	Erythrocyte sedimentation rate	Changeable Data
OM1.56.3	Name of Coding System	LN	Test Case Fixed Data
OM1.56.4	Alternate Identifier	500	Changeable Data
OM1.56.5	Alternate Text	Erythrocyte sedimentation rate	Changeable Data
OM1.56.6	Name of Alternate Coding System	99USL	Changeable Data
OM1.56.7	Coding System Version ID	2.48	Changeable Data
OM1.56.8	Alternate Coding System Version ID	20130421	Changeable Data
OM1.56.9	Original Text	Erythrocyte sedimentation rate	Changeable Data
<b>OM1.57</b>	<b>Expected Turn-Around Time</b>		
OM1.57.1	Quantity	1	Changeable Data
OM1.57.2	Units		
OM1.57.2.1	Identifier	d	Changeable Data
OM1.57.2.2	Text	day	Changeable Data
OM1.57.2.3	Name of Coding System	UCUM	Changeable Data
OM1.57.2.7	Coding System Version ID	1.8	Changeable Data

## OM2

Location	Data Element	Data	Categorization
<b>OM2.1</b>	<b>Sequence Number - Test/Observation Master File</b>	1	IG Fixed Data
<b>OM2.2</b>	<b>Units of Measure</b>		
OM2.2.1	Identifier	mm/h	Changeable Data
OM2.2.2	Text	millimeter per hour	Changeable Data
OM2.2.3	Name of Coding System	UCUM	Changeable Data
OM2.2.4	Alternate Identifier	mm/hour	Changeable Data
OM2.2.5	Alternate Text	mm/hour	Changeable Data
OM2.2.6	Name of Alternate Coding System	99USL	Changeable Data
OM2.2.7	Coding System Version ID	1.8	Changeable Data
OM2.2.8	Alternate Coding System Version ID	2014	Changeable Data
OM2.2.9	Original Text	mm/hour	Changeable Data
<b>OM2.6</b>	<b>Reference (Normal) Range for Ordinal and Continuous Observations</b>		
OM2.6.1	Numeric Range		
OM2.6.1.1	Low Value	0	Changeable Data
OM2.6.1.2	High Value	15	Changeable Data
OM2.6.2	Administrative Sex		
OM2.6.2.1	Identifier	M	Changeable Data
OM2.6.2.2	Text	Male	Changeable Data
OM2.6.2.3	Name of Coding System	HL70001	IG Fixed Data
OM2.6.2.7	Coding System Version ID	2.5.1	IG Fixed Data
<b>OM2.6[2]</b>	<b>Reference (Normal) Range for Ordinal and Continuous Observations</b>		
OM2.6[2].1	Numeric Range		
OM2.6[2].1.1	Low Value	0	Changeable Data
OM2.6[2].1.2	High Value	25	Changeable Data
OM2.6[2].2	Administrative Sex		
OM2.6[2].2.1	Identifier	F	Changeable Data
OM2.6[2].2.2	Text	Female	Changeable Data
OM2.6[2].2.3	Name of Coding System	HL70001	IG Fixed Data

## OM4

Location	Data Element	Data	Categorization

OM4 Location	Sequence Number - Test/Observation Master File	Data Element	1.1	Data	IG Fixed Data	Categorization
OM4.3	Container Description			Black Top Tube (Vac-Tec)		Changeable Data
OM4.4	Container Volume			3.0		Changeable Data
OM4.5	Container Units					
OM4.5.1	Identifier			mL		Changeable Data
OM4.5.2	Text			milliliters		Changeable Data
OM4.5.3	Name of Coding System			UCUM		Changeable Data
OM4.5.7	Coding System Version ID			1.8		Changeable Data
OM4.6	Specimen					
OM4.6.1	Identifier			119297000		Test Case Fixed Data
OM4.6.2	Text			Blood sample		Changeable Data
OM4.6.3	Name of Coding System			SCT		Test Case Fixed Data
OM4.6.4	Alternate Identifier			WBLD		Changeable Data
OM4.6.5	Alternate Text			Whole blood		Changeable Data
OM4.6.6	Name of Alternate Coding System			99USL		Changeable Data
OM4.6.7	Coding System Version ID			201509-US Ed		Changeable Data
OM4.6.8	Alternate Coding System Version ID			2014		Changeable Data
OM4.6.9	Original Text			Whole blood		Changeable Data
OM4.7	Additive					
OM4.7.1	Identifier			WEST		Changeable Data
OM4.7.2	Text			Buffered Citrate (Westergren Sedimentation Rate)		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			2.4		Changeable Data
OM4.10.2	Units					
OM4.10.2.1	Identifier			mL		Changeable Data
OM4.10.2.2	Text			milliliters		Changeable Data
OM4.10.2.3	Name of Coding System			UCUM		IG Fixed Data
OM4.10.2.7	Coding System Version ID			1.8		Changeable Data
OM4.11	Minimum Collection Volume					
OM4.11.1	Quantity			2.4		Changeable Data
OM4.11.2	Units					
OM4.11.2.1	Identifier			mL		Changeable Data
OM4.11.2.2	Text			milliliters		Changeable Data
OM4.11.2.3	Name of Coding System			UCUM		IG Fixed Data
OM4.11.2.7	Coding System Version ID			1.8		Changeable Data
OM4.12	Specimen Requirements			Specimen must be received and tested within 4-6 hrs of collection..		Changeable Data
OM4.15	Specimen Handling Code					
OM4.15.1	Identifier			CREF		Changeable Data
OM4.15.2	Text			Critical refrigerated		Changeable Data
OM4.15.3	Name of Coding System			HL70376		IG Fixed Data
OM4.15.7	Coding System Version ID			2.5.1		Changeable Data
OM4.15[2]	Specimen Handling Code					
OM4.15[2].1	Identifier			MTLF		Changeable Data
OM4.15[2].2	Text			Metal Free		Changeable Data
OM4.15[2].3	Name of Coding System			HL70376		IG Fixed Data
OM4.15[2].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	Container Description	Lavender Top (EDTA) tube	Changeable Data

OM4.4 Location	Container Volume Element	3.0 Data	Changeable Data Categorization
<b>OM4.5</b>	<b>Container Units</b>		
OM4.5.1	Identifier	mL	Changeable Data
OM4.5.2	Text	milliliters	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	119297000	Test Case Fixed Data
OM4.6.2	Text	Blood sample	Changeable Data
OM4.6.3	Name of Coding System	SCT	Test Case Fixed Data
OM4.6.4	Alternate Identifier	WBLD	Changeable Data
OM4.6.5	Alternate Text	Whole blood	Changeable Data
OM4.6.6	Name of Alternate Coding System	99USL	Changeable Data
OM4.6.7	Coding System Version ID	201509-US Ed	Changeable Data
OM4.6.8	Alternate Coding System Version ID	2014	Changeable Data
OM4.6.9	Original Text	Whole blood	Changeable Data
<b>OM4.7</b>	<b>Additive</b>		
OM4.7.1	Identifier	EDTK	Changeable Data
OM4.7.2	Text	Potassium/K EDTA	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	2.4	Changeable Data
OM4.10.2	Units		
OM4.10.2.1	Identifier	mL	Changeable Data
OM4.10.2.2	Text	milliliters	Changeable Data
OM4.10.2.3	Name of Coding System	UCUM	IG Fixed 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	2.4	Changeable Data
OM4.11.2	Units		
OM4.11.2.1	Identifier	mL	Changeable Data
OM4.11.2.2	Text	milliliters	Changeable Data
OM4.11.2.3	Name of Coding System	UCUM	IG Fixed Data
OM4.11.2.7	Coding System Version ID	1.8	Changeable Data
<b>OM4.12</b>	<b>Specimen Requirements</b>	Specimen must be received and tested within 4-6 hrs of collection.	Changeable Data
<b>OM4.15</b>	<b>Specimen Handling Code</b>		
OM4.15.1	Identifier	CREF	Changeable Data
OM4.15.2	Text	Critical refrigerated	Changeable Data
OM4.15.3	Name of Coding System	HL70376	IG Fixed Data
OM4.15.7	Coding System Version ID	2.5.1	Changeable Data
<b>OM4.15[2]</b>	<b>Specimen Handling Code</b>		
OM4.15[2].1	Identifier	MTLF	Changeable Data
OM4.15[2].2	Text	Metal Free	Changeable Data
OM4.15[2].3	Name of Coding System	HL70376	IG Fixed Data
OM4.15[2].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	OMM
Event code	UPD

#### Test Details - Erythrocyte sedimentation rate

##### Record information

Element	Data
Event code	MDC
Effective date and time	20131219145310
Test/Panel Name	Erythrocyte sedimentation rate
Test/Panel identifier (code system)	500 (99USL)

##### General information

Element	Data
Specimen required ?	Y
Test/Panel other name	Erythrocyte sedimentation rate
Test/Panel other identifier (code system)	30341-2 (LN)
Preferred Report Name	Erythrocyte Sedimentation Rate
Is the test/panel orderable ?	Y
Nature	A
Interpretation	The erythrocyte sedimentation rate is a nonspecific measure of inflammatory disease.
Factors that may affect the test	Insufficient blood, Clotting, Hemolysis, Blood specimen received > 12 hours after collection.
Schedule	Daily
Is the test exclusive ?	N
Diagnostic Service Sector	LAB
Test alias	Westergren
Test alias	Sed Rate
Replacement test	Erythrocyte sedimentation rate, Automated
Replacement test (code & code system)	815120 (99USL)
Special Instructions	Please include tentative diagnosis/treatment on the request form.
Special Instructions	Please direct any questions regarding this test to the hematology division.
Test Relationship Category	Clinical Pathology
Test Relationship Category (code & code system)	CP (99USL)
Test Relationship Category	Haematology
Test Relationship Category (code & code system)	HM (99USL)
Expected turn around time	1 day

##### Numeric test details

Element	Data
Unit of measure	millimeter per hour
Unit of measure (code & code system)	mm/h (UCUM)
Reference range Administrative Sex	Male
Reference range Administrative Sex (code & code system)	M (HL70001)
Reference range Administrative Sex	Female
Reference range Administrative Sex (code & code system)	F (HL70001)

##### Specimen information details

Element	Data
Sequence ID	1.1
Container description	Black Top Tube (Vac-Tec)
Container volume	3.0
Container units	milliliters

Container units (code & code system)	mL (UCUM)
Specimen (code & code system)	119297000 (SCT)
Specimen (code & code system)	WEST (HL70371)
Normal collection volume	2.4
Normal collection volume unit	milliliters
Normal collection volume unit (code & code system)	mL (UCUM)
Normal collection volume	2.4
Normal collection volume unit	milliliters
Normal collection volume unit (code & code system)	mL (UCUM)
Specimen Requirements	Specimen must be received and tested within 4-6 hrs of collection..
Specimen Handling Code	Critical refrigerated
Specimen Handling Code (code & code system)	CREF (HL70376)
Specimen Handling Code	Metal Free
Specimen Handling Code (code & code system)	MTLF (HL70376)
Specimen Preference	P

Specimen information details

Element	Data
Sequence ID	1.2
Container description	Lavender Top (EDTA) tube
Container volume	3.0
Container units	milliliters
Container units (code & code system)	mL (UCUM)
Specimen (code & code system)	119297000 (SCT)
Specimen (code & code system)	EDTK (HL70371)
Normal collection volume	2.4
Normal collection volume unit	milliliters
Normal collection volume unit (code & code system)	mL (UCUM)
Normal collection volume	2.4
Normal collection volume unit	milliliters
Normal collection volume unit (code & code system)	mL (UCUM)
Specimen Requirements	Specimen must be received and tested within 4-6 hrs of collection.
Specimen Handling Code	Critical refrigerated
Specimen Handling Code (code & code system)	CREF (HL70376)
Specimen Handling Code	Metal Free
Specimen Handling Code (code & code system)	MTLF (HL70376)
Specimen Preference	A
Preferred Specimen Sequence ID	1.1



MSH|^~&#|NIST Test Lab APP|NIST Lab Facility||NIST EHR Facility|20130421113601-0700||MFN^M08^MFN\_M08|EDOS\_2.0\_1.1-M08-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|OMM^Mixed type observation master file^HL70175^^^^2.5.1||UPD|||NE

MFE|MDC||20131219145310|500^Erythrocyte sedimentation rate^99USL^^^^20130421|CWE

OM1|1|500^Erythrocyte sedimentation rate^99USL^^^^20130421||Y|05D0669071^Century Hospital Clinical Laboratory^99USL^^^^2013|30341-2^Erythrocyte sedimentation rate^LN^^^^2.42||Erythrocyte Sedimentation Rate||Y||||A|||||||The erythrocyte sedimentation rate is a nonspecific measure of inflammatory disease.|||||Insufficient blood, Clotting, Hemolysis is, Blood specimen received > 12 hours after collection.|Daily|||||N|LAB|Westergren~Sed Rate|815120^Erythrocyte sedimentation rate, Automated^99USL^^^^20130421||Please include tentative diagnosis/treatment on the request form~Please direct any questions regarding this test to the hematology division.|CP^Clinical Pathology^99USL^^^^2015~HM^Haematology^99USL^^^^2015|30341-2^Erythrocyte sedimentation rate^LN^500^Erythrocyte sedimentation rate^99USL^2.48^20130421^Erythrocyte sedimentation rate|1^d&day&UCUM&&&&1.8

OM2|1|mm/h^millimeter per hour^UCUM^mm/hour^mm/hour^99USL^1.8^2014^mm/hour|||0&15^M&Male&HL70001&&&&2.5.1~0&25^F&Female&HL70001

OM4|1.1||Black Top Tube (Vac-Tec)|3.0|mL^milliliters^UCUM^^^^1.8|119297000^Blood sample^SCT^WBLD^Whole blood^99USL^201509-US Ed^2014^Whole blood|WEST^Buffered Citrate (Westergren Sedimentation Rate)^HL70371^^^^2.5.1||2.4^mL&milliliters&UCUM&&&&1.8|2.4^mL&milliliters&UCUM&&&&1.8|Specimen must be received and tested within 4-6 hrs of collection.||||CREF^Critical refrigerated^HL70376^^^^2.5.1~MTLF^Metal Free^HL70376^^^^2.5.1|P

OM4|1.2||Lavender Top (EDTA) tube|3.0|mL^milliliters^UCUM^^^^1.8|119297000^Blood sample^SCT^WBLD^Whole blood^99USL^201509-US Ed^2014^Whole blood|EDTK^Potassium/K EDTA^HL70371^^^^2.5.1||2.4^mL&milliliters&UCUM&&&&1.8|2.4^mL&milliliters&UCUM&&&&1.8|Specimen must be received and tested within 4-6 hrs of collection.||||CREF^Critical refrigerated^HL70376^^^^2.5.1~MTLF^Metal Free^HL70376^^^^2.5.1|A|1.1