

NIST HL7 V2 Validation Tool Test Data

Electronic Directory Of Service (eDOS)

Version 1.0

13th March, 2015

eDOS Test Case EDOS_2.3_1.1-M08_GU

M08_Update_reactivate

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 has made the following changes to their test compendium:

- Reactivated the Sedimentation Rate Test that was previously de-activated.

Century Hospital's LIS transmits the appropriate eDOS update messages with these changes to Dr. Radon's EHR.

Comments

Update changes for reactivation of information about individual observations.

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_2.1_1.1-M08_deactivate
and
EDOS_2.1_2.1-M10_deactivate
and
EDOS_2.1_3.1-M04_deactivate
have been uploaded.

PostCondition

No Post-Conditions.

TestObjectives

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

Notes to Testers

No Notes.

Message Content Data Sheet

Test Case Information

EDOS_2.3_1.1-M08_GU - M08_Update_reactivate	
Test Case ID	EDOS_2.3_1.1-M08_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	M08	IG Fixed Data
MSH.9.3	Message Structure	MFN_M08	IG Fixed Data
MSH.10	Message Control ID	EDOS_2.3_1.1-M08_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	OMA	IG Fixed Data
MFI.1.2	Text	Numerical 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	MAC	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	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	500	Changeable Data
OM1.2.2	Text	Erythrocyte sedimentation rate	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	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	IG Fixed Data
OM1.32[1]	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 of collection.	Changeable Data
OM1.40[1]	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[1]	Other Names	Westergren	Changeable Data
OM1.51[2]	Other Names	Sed Rate	Changeable Data
OM1.54[1]	Special Instructions	None	Changeable Data
OM1.54[2]	Special Instructions	None	Changeable Data

OM1.55[1]	Test Relationship Category		
OM1.55[1].1	Identifier	CP	Changeable Data
OM1.55[1].2	Text	Clinical Pathology	Changeable Data
OM1.55[1].3	Name of Coding System	99USI	Changeable Data
OM1.55[1].7	Coding System Version ID	41863	Changeable Data
OM1.56[1]	Observation Identifier associated with Producer's Service/Test/Observation ID		
OM1.56[1].1	Identifier	30341-2	Changeable Data
OM1.56[1].2	Text	Erythrocyte sedimentation rate	Changeable Data
OM1.56[1].3	Name of Coding System	LN	Test Case Fixed Data
OM1.56[1].4	Alternate Identifier	500	Changeable Data
OM1.56[1].5	Alternate Text	Erythrocyte sedimentation rate	Changeable Data
OM1.56[1].6	Name of Alternate Coding System	99USI	Changeable Data
OM1.56[1].7	Coding System Version ID	2.48	Changeable Data
OM1.56[1].8	Alternate Coding System Version ID	20130421	Changeable Data
OM1.56[1].9	Original Text	Erythrocyte sedimentation rate	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].2.1	Identifier	d	Changeable Data
OM1.57[1].2.2	Text	day	Changeable Data
OM1.57[1].2.3	Name of Coding System	UCUM	Changeable Data
OM1.57[1].2.7	Coding System Version ID	1.8	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	Black Top Tube (Vac-Tec)	Changeable Data
OM4.4[1]	Container Volume	3.0	Changeable Data
OM4.5[1]	Container Units		
OM4.5[1].1	Identifier	mL	Changeable Data
OM4.5[1].2	Text	milliliters	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	119297000	Test Case Fixed Data

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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	99USI	Changeable Data
OM4.6.7	Coding System Version ID	20130131	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[1]	Specimen Handling Code		
OM4.15[1].1	Identifier	CREF	Changeable Data
OM4.15[1].2	Text	Critical refrigerated	Changeable Data
OM4.15[1].3	Name of Coding System	HL70376	IG Fixed Data
OM4.15[1].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[1]	Container Description	Lavender Top (EDTA) tube	Changeable Data
OM4.4[1]	Container Volume	3.0	Changeable Data
OM4.5[1]	Container Units		
OM4.5[1].1	Identifier	mL	Changeable Data
OM4.5[1].2	Text	milliliters	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	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	99USI	Changeable Data
OM4.6.7	Coding System Version ID	20130131	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	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
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[1]	Specimen Handling Code		
OM4.15[1].1	Identifier	CREF	Changeable Data
OM4.15[1].2	Text	Critical refrigerated	Changeable Data
OM4.15[1].3	Name of Coding System	HL70376	IG Fixed Data
OM4.15[1].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	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

Test information [1]

Master File Entry

Element name	Data
Record-Level Event Code	Reactivate deactivated record
Effective Date/Time	2013-12-19 2:53:10pm
Primary Key Value - MFE	Erythrocyte sedimentation rate

General Segment

Element name	Data
Specimen Required	Yes
Producer ID	Century Hospital Clinical Laboratory
Other Service/Test/Observation IDs for the Observation	Erythrocyte sedimentation rate
Preferred Report Name for the Observation	Erythrocyte sedimentation rate
Orderability	Yes
Nature of Service/Test/Observation	A
Interpretation of Observations	The erythrocyte sedimentation rate is a nonspecific measure of inflammatory disease.
Factors that may Affect the Observation	Insufficient blood, Clotting, Hemolysis, Blood specimen received > 12 hours of collection.
Service/Test/Observation Performance Schedule	Daily
Exclusive Test	This test can be included with any number of other tests
Diagnostic Service Sector ID	Laboratory
Other Names	Westergren
Other Names	Sed Rate
Special Instructions	None
Special Instructions	None
Test Relationship Category Identifier	Clinical Pathology
Observation Identifier	Erythrocyte sedimentation rate
Expected Turn-Around Time	1 day

Observations that Require Specimens

Element name	Data
Sequence Number - Test/Observation Master File	1.1
Container Description	Black Top Tube (Vac-Tec)
Container Volume	3.0
Container Units	milliliters
Specimen	Blood sample
Additive	Buffered Citrate (Westergren Sedimentation Rate)
Normal Collection Volume	2.4 milliliters
Minimum Collection Volume	2.4 milliliters
Specimen Requirements	Specimen must be received and tested within 4-6 hrs of Collection
Specimen Handling Code	Critical refrigerated
Specimen Handling Code	Metal Free
Specimen Preference	Preferred

Observations that Require Specimens

Element name	Data
Sequence Number - Test/Observation Master File	1.2
Container Description	Lavender Top (EDTA) tube
Container Volume	3.0
Container Units	milliliters
Specimen	Blood sample
Additive	Potassium/K EDTA
Normal Collection Volume	2.4 milliliters
Minimum Collection Volume	2.4 milliliters
Specimen Requirements	Specimen must be received and tested within 4-6 hrs of Collection
Specimen Handling Code	Critical refrigerated
Specimen Handling Code	Metal Free
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^M08^MFN_M08|EDOS_2.3_1.1-M08_GU|T|2.5.1|||AL|NE|||E DOS_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|OMA^Numerical observation master file^HL70175^^^^2.5.1||UPD|||NE

MFE|MAC||20131219145310|500^Erythrocyte sedimentation rate^99USI^^^^20130421|CWE

OM1|1|500^Erythrocyte sedimentation rate^99USI^^^^20130421||Y|05D0669071^Century Hospital Clinical Laboratory^99USI^^^^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, Blood specimen received > 12 hours of collection. Daily|||||N|LAB|Westergren~Sed Rate||None~None|CP^Clinical Pathology^99USI^^^^41863|30341-2^Erythrocyte sedimentation rate^LN^500^Erythrocyte sedimentation rate^99USI^2.48^20130421^Erythrocyte sedimentation rate|1^d&day&UCUM&&&&1.8

OM4|1.1||Black Top Tube (Vac-Tec)|3.0|mL^milliliters^UCUM^^^^1.8|119297000^Blood sample^SCT^WBLD^Whole blood^99USI^20130131^2014^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^99USI^20130131^2014^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