

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_NG

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 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 message 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
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 OM1-31(Observations Required to Interpret the Observation), OM1.52(Replacement Producer's Service/Test/Observation ID), OM4-3(Container Description), OM4-4 (Container Volume), and OM4-5 (Container Units).
- 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-NG - M08_Update_reactivate | |
|---|---------------------|
| Test Case ID | EDOS_2.3_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_2.3_1.1-M08-NG | 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_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 | 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 | | |

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| | | | |
|------------------|---|--|----------------------|
| 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 |
| 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 |

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| | | | |
|------------------|------------------------------------|---|----------------------|
| 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|NIST Lab Facility||NIST EHR Facility|20130421113601-0700||MFN^M08^MFN_M08|EDOS_2.3_1.1-M08-NG|T|2.5.1||AL|NE||||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|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