

#### 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 has made the following changes to their test compendium:

- Revised the LOINC for Penicillin susceptibility test.

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

#### Comments

Update changes for revision 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\_1.0\_4.1-M18\_New\_Aproved  
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: revision

## Test Case Information

## EDOS\_2.2\_1.1-M08\_GU - M08\_Update\_revise

Test Case ID

EDOS\_2.2\_1.1-M08\_GU

## MSH

Location	Data Element	Data	Categorization
<b>MSH.1</b>	<b>Field Separator</b>		IG Fixed Data
<b>MSH.2</b>	<b>Encoding Characters</b>	^~&#	IG Fixed Data
<b>MSH.3</b>	<b>Sending Application</b>		
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
<b>MSH.4</b>	<b>Sending Facility</b>		
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
<b>MSH.6</b>	<b>Receiving Facility</b>		
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
<b>MSH.7</b>	<b>Date/Time Of Message</b>		
MSH.7.1	Time	20130421113601-0700	System Generated
<b>MSH.9</b>	<b>Message Type</b>		
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
<b>MSH.10</b>	<b>Message Control ID</b>	EDOS_2.2_1.1-M08_GU	System Generated
<b>MSH.11</b>	<b>Processing ID</b>		
MSH.11.1	Processing ID	D	Changeable Data
<b>MSH.12</b>	<b>VersionID</b>		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
<b>MSH.21</b>	<b>Message Profile Identifier</b>		
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
<b>MSH.21[2]</b>	<b>Message Profile Identifier</b>		
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
<b>MFI.1</b>	<b>Master File Identifier</b>		
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
<b>MFI.3</b>	<b>File-Level Event Code</b>	UPD	Test Case Fixed Data
<b>MFI.6</b>	<b>Response Level Code</b>	NE	IG Fixed Data

## MFE

Location	Data Element	Data	Categorization
<b>MFE.1</b>	<b>Record-Level Event Code</b>	MUP	Test Case Fixed Data

<b>MFE.3</b>	<b>Location</b>	<b>Effective Date/Time</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
	MFE.3.1	Time		20131219145310	System Generated
<b>MFE.4</b>			<b>Primary Key Value - MFE</b>		
	MFE.4.1	Identifier		1506	Changeable Data
	MFE.4.2	Text		Penicillin	Changeable Data
	MFE.4.3	Name of Coding System		99USL	Changeable Data
	MFE.4.7	Coding System Version ID		20130421	Changeable Data
<b>MFE.5</b>			<b>Primary Key Value Type</b>	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	1506	Changeable Data
OM1.2.2	Text	Penicillin	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	N	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	6932-8	Test Case Fixed Data
OM1.7.2	Text	Penicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	Changeable Data
OM1.7.3	Name of Coding System	LN	Test Case Fixed Data
OM1.9	Preferred Report Name for the Observation	Penicillin MIC	Changeable Data
OM1.12	Orderability	Y	Test Case Fixed Data
OM1.18	Nature of Service/Test/Observation	A	Test Case Fixed 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
OM1.56	Observation Identifier associated with Producer's Service/Test/Observation ID		
OM1.56.1	Identifier	6932-8	Changeable Data
OM1.56.2	Text	Penicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	Changeable Data
OM1.56.3	Name of Coding System	LN	Test Case Fixed Data
OM1.56.4	Alternate Identifier	1506	Changeable Data
OM1.56.5	Alternate Text	Penicillin	Changeable Data
OM1.56.6	Name of Alternate Coding System	99USL	Changeable Data
OM1.57	Expected Turn-Around Time		
OM1.57.1	Quantity	3	Changeable Data
OM1.57.2	Units		
OM1.57.2.2	Text	day	Changeable Data

#### OM4

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
	<b>Sequence Number - Test/Observation</b>		

OM4.1	Location	Master File	Data Element	1	Data	IG Fixed Data	Categorization
OM4.6		Specimen					
OM4.6.1		Identifier		429951000124103			Test Case Fixed Data
OM4.6.2		Text		Bacterial isolate specimen			Changeable Data
OM4.6.3		Name of Coding System		SCT			Test Case Fixed Data
OM4.6.7		Coding System Version ID		20130331			Changeable Data
OM4.12		Specimen Requirements		Organism must be in pure culture and actively growing. Place into large infectious container and label as " Infectious substance".			Changeable Data
OM4.15		Specimen Handling Code					
OM4.15.1		Identifier		CAMB			Changeable Data
OM4.15.2		Text		Critical ambient temperature			Changeable Data
OM4.15.3		Name of Coding System		HL70376			IG Fixed Data

Element	Data
Identifier	OMM
Event code	UPD

Test Details - Penicillin  
Record information

Element	Data
Event code	MUP
Effective date and time	20131219145310
Test/Panel Name	Penicillin
Test/Panel identifier (code system)	1506 (99USL)

General information

Element	Data
Specimen required ?	N
Test/Panel other name	Penicillin [Susceptibility] by Minimum inhibitory concentration (MIC)
Test/Panel other identifier (code system)	6932-8 (LN)
Preferred Report Name	Penicillin MIC
Is the test/panel orderable ?	Y
Nature	A
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	3 day

Specimen information details

Element	Data
Sequence ID	1
Specimen (code & code system)	429951000124103 (SCT)
Specimen Requirements	Organism must be in pure culture and actively growing. Place into large infectious container and label as " Infectious substance".
Specimen Handling Code	Critical ambient temperature
Specimen Handling Code (code & code system)	CAMB (HL70376)

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\_2.2\_1.1-M08\_GU|D|2.5.1|||||||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^I  
SO

MFI|OMM^Mixed type observation master file^HL70175^^^^2.5.1||UPD|||NE

MFE|MUP||20131219145310|1506^Penicillin^99USL^^^^20130421|CWE

OM1|1|1506^Penicillin^99USL^^^^20130421||N|05D0669071^Century Hospital Clinical Laboratory^99USL^^^^2013||6932-8^Penici  
lin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN||Penicillin MIC||Y||||A|||||||Insuff  
icient specimen, Improper labeling|Monday through Friday|||||N|LAB|||||6932-8^Penicillin [Susceptibility] by Minim  
um inhibitory concentration (MIC)^LN^1506^Penicillin^99USL|3^&day

OM4|1||||429951000124103^Bacterial isolate specimen^SCT^^^^20130331|||||Organism must be in pure culture and actively  
growing. Place into large infectious container and label as " Infectious substance".|||CAMB^Critical ambient temperatu  
re^HL70376