

#### Description

Mr. William A. Jones is a 51 year old white male who presented with a history of high fever, fatigue, and shortness of breath on exertion. Dr. Nicholas Radon ordered a complete blood count (CBC) test to be performed. A blood specimen for the CBC test was collected from the patient and sent to the clinical lab at Century Hospital for processing. The order instructs that a copy of the test result report to be sent to Dr. Naddy Deluca.

Century Hospital's clinical laboratory receives the patient's specimen later the next day, but the specimen collection tubes are broken and the sample has leaked out. The laboratory staff enters this information into their system and an electronic Order Cancellation Notification message is sent to GoodHealth Clinic's EHR using the LOI message to cancel the test and state the reason for the cancellation.

#### Comments

This test case is evaluating the proper use of the OML^O21^OML\_O21: Laboratory Order Message - Cancel Order.

#### PreCondition

'LOI\_2.0\_1.1-GU' (CBC) has been ordered.

#### PostCondition

No Post Condition.

#### TestObjectives

- Demonstrate the capability of the EHR-S to process a valid Laboratory Cancel Order Message.

#### Notes to Testers

No Notes

## Test Case Information

## NIST-LOI\_2.0\_2.1-GU\_CL - CBC

Test Case ID

LOI\_2.0\_2.1-GU\_CL

## 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.5</b>	<b>Receiving Application</b>		
MSH.5.1	Namespace ID	NIST EHR	Configurable Data
MSH.5.2	Universal ID	2.16.840.1.113883.3.72.5.22	Configurable Data
MSH.5.3	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	20130212184101-0500	System Generated
<b>MSH.9</b>	<b>Message Type</b>		
MSH.9.1	Message Code	OML	IG Fixed Data
MSH.9.2	Trigger Event	O21	IG Fixed Data
MSH.9.3	Message Structure	OML_O21	IG Fixed Data
<b>MSH.10</b>	<b>Message Control ID</b>	NIST-LOI_2.0_2.1-GU_CL	System Generated
<b>MSH.11</b>	<b>Processing ID</b>		
MSH.11.1	Processing ID	T	Changeable Data
<b>MSH.12</b>	<b>Version ID</b>		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
<b>MSH.15</b>	<b>Accept Acknowledgment Type</b>	AL	IG Fixed Data
<b>MSH.16</b>	<b>Application Acknowledgment Type</b>	AL	Changeable Data
<b>MSH.21</b>	<b>Message Profile Identifier</b>		
MSH.21.1	Entity Identifier	LOI_GU_PRU_Profile	Test Case Fixed Data
MSH.21.2	Namespace ID	LOI Base + PRU + GU	Changeable Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.85	Test Case Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data

## PID

Location	Data Element	Data	Categorization
<b>PID.1</b>	<b>Set ID - PID</b>	1	IG Fixed Data
<b>PID.3</b>	<b>Patient Identifier List</b>		
PID.3.1	ID Number	LABPATID1	Configurable Data
PID.3.4	Assigning Authority		
PID.3.4.1	Namespace ID	NIST Test Lab APP	Configurable Data
PID.3.4.2	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
PID.3.4.3	Universal ID Type	ISO	IG Fixed Data
PID.3.5	Identifier Type Code	PI	Changeable Data
<b>PID.3[2]</b>	<b>Patient Identifier List</b>		
PID.3[2].1	ID Number	PATID1234	Configurable Data

<b>PID.3[2].4 Location</b>	<b>Assigning Authority Data Element</b>	<b>Data</b>	<b>Categorization</b>
PID.3[2].4.1	Namespace ID	NIST MPI	Configurable Data
PID.3[2].4.2	Universal ID	2.16.840.1.113883.3.72.5.30.2	Configurable Data
PID.3[2].4.3	Universal ID Type	ISO	IG Fixed Data
PID.3[2].5	Identifier Type Code	MR	Changeable Data
<b>PID.5</b>	<b>Patient Name</b>		
PID.5.1	Family Name		
PID.5.1.1	Surname	Jones	Changeable Data
PID.5.2	Given Name	William	Changeable Data
PID.5.3	Second and Further Given Names or Initials Thereof	A	Changeable Data
PID.5.4	Suffix (e.g., JR or III)	JR	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
<b>PID.7</b>	<b>Date/Time of Birth</b>		
PID.7.1	Date/Time	19610615	Changeable Data
<b>PID.8</b>	<b>Administrative Sex</b>	M	Changeable Data
<b>PID.10</b>	<b>Race</b>		
PID.10.1	Identifier	2106-3	Changeable Data
PID.10.2	Text	White	Changeable Data
PID.10.3	Name of Coding System	HL70005	IG Fixed Data
<b>PID.11</b>	<b>Patient Address</b>		
PID.11.1	Street Address		
PID.11.1.1	Street or Mailing Address	2100 Kennwood Ave	Changeable Data
PID.11.2	Other Designation	Apt 41	Changeable Data
PID.11.3	City	Los Angeles	Changeable Data
PID.11.4	State or Province	CA	Changeable Data
PID.11.5	Zip or Postal Code	90067	Changeable Data
PID.11.7	Address Type	H	Test Case Fixed Data

#### ORC

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
<b>ORC.1</b>	<b>Order Control</b>	OC	Test Case Fixed Data
<b>ORC.2</b>	<b>Placer Order Number</b>		
ORC.2.1	Entity Identifier	ORD666555	Changeable Data
ORC.2.2	Namespace ID	GoodHealthC_EHR	Configurable Data
ORC.2.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
ORC.2.4	Universal ID Type	ISO	IG Fixed Data
<b>ORC.3</b>	<b>Filler Order Number</b>		
ORC.3.1	Entity Identifier	LABORD100	Changeable Data
ORC.3.2	Namespace ID	NIST Test Lab APP	Configurable Data
ORC.3.3	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
ORC.3.4	Universal ID Type	ISO	IG Fixed Data
<b>ORC.4</b>	<b>Placer Group Number</b>		
ORC.4.1	Entity Identifier	GORD874233	Changeable Data
ORC.4.2	Namespace ID	GoodHealthC_EHR	Configurable Data
ORC.4.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
ORC.4.4	Universal ID Type	ISO	IG Fixed Data
<b>ORC.9</b>	<b>Date/Time of Transaction</b>		
ORC.9.1	Time	20120629070100	System Generated
<b>ORC.12</b>	<b>Ordering Provider</b>		
ORC.12.1	ID Number	5742200012	Changeable Data
ORC.12.2	Family Name		
ORC.12.2.1	Surname	Radon	Changeable Data
ORC.12.3	Given Name	Nicholas	Changeable Data
ORC.12.9	Assigning Authority		
ORC.12.9.1	Namespace ID	NPI	Configurable Data
ORC.12.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data

Location	Data Element	Data	Categorization
ORC.12.9.3	Universal ID Type	ISO	IG Fixed Data
ORC.12.10	Name Type Code	L	Changeable Data
ORC.12.13	Identifier Type Code	NPI	Changeable Data

#### OBR

Location	Data Element	Data	Categorization
<b>OBR.1</b>	<b>Set ID - OBR</b>	1	IG Fixed Data
<b>OBR.2</b>	<b>Placer Order Number</b>		
OBR.2.1	Entity Identifier	ORD666555	Changeable Data
OBR.2.2	Namespace ID	GoodHealthC_EHR	Configurable Data
OBR.2.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
OBR.2.4	Universal ID Type	ISO	IG Fixed Data
<b>OBR.3</b>	<b>Filler Order Number</b>		
OBR.3.1	Entity Identifier	LABORD100	Changeable Data
OBR.3.2	Namespace ID	NIST Test Lab APP	Configurable Data
OBR.3.3	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
OBR.3.4	Universal ID Type	ISO	IG Fixed Data
<b>OBR.4</b>	<b>Universal Service Identifier</b>		
OBR.4.1	Identifier	200	Test Case Fixed Data
OBR.4.2	Text	CBC_diff	Changeable Data
OBR.4.3	Name of Coding System	99USL	Test Case Fixed Data
OBR.4.4	Alternate Identifier	57021-8	Test Case Fixed Data
OBR.4.5	Alternate Text	CBC W Auto Differential panel in Blood	Changeable Data
OBR.4.6	Name of Alternate Coding System	LN	Changeable Data
OBR.4.7	Coding System Version ID	20130421	Changeable Data
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Date/Time	20120629070100-0800	System Generated
<b>OBR.16</b>	<b>Ordering Provider</b>		
OBR.16.1	ID Number	5742200012	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Radon	Changeable Data
OBR.16.3	Given Name	Nicholas	Changeable Data
OBR.16.9	Assigning Authority		
OBR.16.9.1	Namespace ID	NPI	Configurable Data
OBR.16.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data
OBR.16.9.3	Universal ID Type	ISO	IG Fixed Data
OBR.16.10	Name Type Code	L	Changeable Data
OBR.16.13	Identifier Type Code	NPI	Changeable Data

#### NTE

Location	Data Element	Data	Categorization
<b>NTE.1</b>	<b>Set ID - NTE</b>	1	IG Fixed Data
<b>NTE.3</b>	<b>Comment</b>	Cancel Order- Broken Lavender Top Tube	Changeable Data

**Patient Information**

Element	Data
Patient Name	William A Jones JR
Administrative Sex	Male
Date/Time of Birth	06/15/1961
Patient Address	2100 Kennwood Ave Apt 41 Los Angeles CA 90067
Race	White

**Order**

**Ordering Provider**

Element	Data
Provider Name	Nicholas Radon
Provider NPI identifier	5742200012

**General order information**

Element	Data
Placer Order Number	ORD666555
Filler Order Number	LABORD100
Placer Group Number	GORD874233
Order Control	OC
Date/Time of Transaction	06/29/2012 07:01:00 AM

**Order details**

Element	Data
Universal Service Identifier	CBC_diff
Observation Date/Time	06/29/2012 07:01:00 AM -0800

**Notes & comments**

Element	Data
Comments	Cancel Order- Broken Lavender Top Tube

Process an Acknowledgement					
Test Case ID	LOI_2.0_2.1-GU_CL				
Juror ID					
Juror Name					
HIT System Tested					
Inspection Date/Time					
Inspection Settlement (Pass/Fail)	<table border="1"> <thead> <tr> <th>Pass</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Pass	Fail	<input type="checkbox"/>	<input type="checkbox"/>
	Pass	Fail			
<input type="checkbox"/>	<input type="checkbox"/>				
Reason Failed					
Juror Comments					

## DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology (HIT) module's ability to receive and process an electronic Order Cancellation Notification LOI message that is sent from the laboratory related to the electronic CBC LOI message that was sent to the laboratory. The electronic Order Cancellation Notification LOI message includes the reason for the cancellation.

The exact wording and format of the display in the HIT module is not in-scope for this test.

Process an Acknowledgement
<p>The receiving HIT module being tested shall process the Order Cancellation Notification LOI message correctly. An indicator that the specific CBC order has been cancelled and the reason for the cancellation ("Cancel Order - Broken Lavender Top Tube") must be associated with the CBC order and be visible in the module.</p>

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^2.16.840.1.113883.3.72.5.22^ISO|NIST EHR Facility^2.16.840.1.113883.3.72.5.23^ISO|20130212184101-0500||OML^O21^OML\_O21|NIST-LOI\_2.0\_2.1-GU\_CL|T|2.5.1|||AL|AL||||LOI\_GU\_PRU\_Profile^LOI Base + PRU + GU^2.16.840.1.113883.9.85^ISO

PID|1||LABPATID1^^^NIST Test Lab APP&2.16.840.1.113883.3.72.5.20&ISO^PI~PATID1234^^^NIST MPI&2.16.840.1.113883.3.72.5.3 0.2&ISO^MR||Jones^William^A^JR^^^L||19610615|M||2106-3^White^HL70005|2100 Kennwood Ave^Apt 41^Los Angeles^CA^90067^^H

ORC|OC|ORD666555^GoodHealthC\_EHR^2.16.840.1.113883.3.72.5.24^ISO|LABORD100^NIST Test Lab APP^2.16.840.1.113883.3.72.5.2 0^ISO|GORD874233^GoodHealthC\_EHR^2.16.840.1.113883.3.72.5.24^ISO|||||20120629070100|||5742200012^Radon^Nicholas^^^^^^NPI &2.16.840.1.113883.4.6&ISO^L^^^NPI

OBR|1|ORD666555^GoodHealthC\_EHR^2.16.840.1.113883.3.72.5.24^ISO|LABORD100^NIST Test Lab APP^2.16.840.1.113883.3.72.5.20 ^ISO|200^CBC\_diff^99USL^57021-8^CBC W Auto Differential panel in Blood^LN^20130421|||20120629070100-0800|||||||5742200 012^Radon^Nicholas^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI

NTE|1||Cancel Order- Broken Lavender Top Tube