

#### Description

Mr. William A. Jones is a 51 year old white male who presented with a complaint of bloody diarrhea over the last 3 days. Dr. Nicholas Radon ordered a stool culture test to be performed using the LOI message. Dr Radon also requested that the results be CC'd to Dr Pafford M. Hamlin. A stool specimen for the microbiology test was collected from the patient and sent to the clinical lab at Century Hospital for processing.

#### PreCondition

No Pre Condition.

#### PostCondition

No Post Condition.

#### TestObjectives

- Test for typically populated order for culture and susceptibility

## Test Case Information

## NIST-LOI\_4.0\_1.1-GU - Culture\_and\_Suscep

Test Case ID

LOI\_4.0\_1.1-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 EHR	Configurable Data
MSH.3.2	Universal ID	2.16.840.1.113883.3.72.5.22	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 EHR Facility	Configurable Data
MSH.4.2	Universal ID	2.16.840.1.113883.3.72.5.23	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 Test Lab APP	Configurable Data
MSH.5.2	Universal ID	2.16.840.1.113883.3.72.5.20	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 Lab Facility	Configurable Data
MSH.6.2	Universal ID	2.16.840.1.113883.3.72.5.21	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	20130211184101-0500	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_4.0_1.1-GU	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_Common_Component	Test Case Fixed Data
MSH.21.2	Namespace ID	LOI Base Profile	Changeable Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.66	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	LOI_GU_Component	Test Case Fixed Data
MSH.21[2].2	Namespace ID	LOI GU Profile	Changeable Data
MSH.21[2].3	Universal ID	2.16.840.1.113883.9.78	Test Case Fixed Data
MSH.21[2].4	Universal ID Type	ISO	IG Fixed Data
<b>MSH.21[3]</b>	<b>Message Profile Identifier</b>		
MSH.21[3].1	Entity Identifier	LAB_PRU_Component	Test Case Fixed Data
MSH.21[3].2	Namespace ID	LOI PRU Profile	Changeable Data
MSH.21[3].3	Universal ID	2.16.840.1.113883.9.82	Test Case Fixed Data
MSH.21[3].4	Universal ID Type	ISO	IG Fixed Data

## PID

Location	Data Element	Data	Categorization
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<b>PID.1 Location</b>	<b>Set ID - PID Data Element</b>	<b>1 Data</b>	<b>IG Fixed Data Categorization</b>
<b>PID.3</b>	<b>Patient Identifier List</b>		
PID.3.1	ID Number	PATID1234	Configurable Data
PID.3.4	Assigning Authority		
PID.3.4.1	Namespace ID	NIST MPI	Configurable Data
PID.3.4.2	Universal ID	2.16.840.1.113883.3.72.5.30.2	Configurable Data
PID.3.4.3	Universal ID Type	ISO	IG Fixed Data
PID.3.5	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>	NW	Test Case Fixed Data
<b>ORC.2</b>	<b>Placer Order Number</b>		
ORC.2.1	Entity Identifier	ORD723222-4	Changeable Data
ORC.2.2	Namespace ID	NIST 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.4</b>	<b>Placer Group Number</b>		
ORC.4.1	Entity Identifier	GORD874211	Changeable Data
ORC.4.2	Namespace ID	NIST 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	20110530124211-0800	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
ORC.12.9.3	Universal ID Type	ISO	IG Fixed Data
ORC.12.10	Name Type Code	L	Changeable Data

ORC.12.13 Location	Identifier Type Code Data Element	NPI	Data	Changeable Data Categorization
<b>ORC.20</b>	<b>Advanced Beneficiary Notice Code</b>			
ORC.20.1	Identifier	2		Test Case Fixed Data
ORC.20.2	Text	Patient has been informed of responsibility, and agrees to pay for service		Changeable Data
ORC.20.3	Name of Coding System	HL70339		IG Fixed 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	ORD723222-4	Changeable Data
OBR.2.2	Namespace ID	NIST 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.4</b>	<b>Universal Service Identifier</b>		
OBR.4.1	Identifier	1100	Test Case Fixed Data
OBR.4.2	Text	Stool culture with Susceptibility	Changeable Data
OBR.4.3	Name of Coding System	99USL	Test Case Fixed Data
OBR.4.9	Original Text	Stool Culture with Susceptibility Reflex	Changeable Data
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Date/Time	20110530123551-0800	Changeable Data
<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
<b>OBR.28</b>	<b>Result Copies To</b>		
OBR.28.1	ID Number	10092000194	Changeable Data
OBR.28.2	Family Name		
OBR.28.2.1	Surname	Hamlin	Changeable Data
OBR.28.3	Given Name	Pafford	Changeable Data
OBR.28.9	Assigning Authority		
OBR.28.9.1	Namespace ID	NPI	Configurable Data
OBR.28.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data
OBR.28.9.3	Universal ID Type	ISO	IG Fixed Data
OBR.28.10	Name Type Code	L	Changeable Data
OBR.28.13	Identifier Type Code	NPI	Changeable Data

#### PRT

Location	Data Element	Data	Categorization
<b>PRT.1</b>	<b>Participation Instance ID</b>		
PRT.1.1	Entity Identifier	1	Changeable Data
PRT.1.2	Namespace ID	NIST EHR	Configurable Data
PRT.1.3	Universal ID	2.16.840.1.113883.3.72.5.22	Configurable Data
PRT.1.4	Universal ID Type	ISO	IG Fixed Data
<b>PRT.2</b>	<b>Action Code</b>	AD	IG Fixed Data
<b>PRT.4</b>	<b>Participation</b>		
PRT.4.1	Identifier	RCT	Test Case Fixed Data
PRT.4.2	Text	Result Copies To	Changeable Data
PRT.4.3	Name of Coding System	HL70912	IG Fixed Data

<b>PRT.5</b>	<b>Location</b>	<b>Participation Data Element</b>	<b>Data</b>	<b>Categorization</b>
	PRT.5.1	ID Number	10092000194	Changeable Data
	PRT.5.2	Family Name		
	PRT.5.2.1	Surname	Hamlin	Changeable Data
	PRT.5.3	Given Name	Pafford	Changeable Data
	PRT.5.9	Assigning Authority		
	PRT.5.9.1	Namespace ID	NPI	Configurable Data
	PRT.5.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data
	PRT.5.9.3	Universal ID Type	ISO	IG Fixed Data
	PRT.5.10	Name Type Code	L	Changeable Data
	PRT.5.13	Identifier Type Code	NPI	Changeable Data
<b>PRT.15</b>		<b>Participant Telecommunication Address</b>		
	PRT.15.3	Telecommunication Equipment Type	FX	Changeable Data
	PRT.15.6	Area/City Code	323	Changeable Data
	PRT.15.7	Local Number	5555555	Changeable Data

#### DG1

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
<b>DG1.1</b>	<b>Set ID - DG1</b>	1	IG Fixed Data
<b>DG1.3</b>	<b>Diagnosis Code - DG1</b>		
	DG1.3.1	Identifier	R19.7
	DG1.3.2	Text	Diarrhea, unspecified
	DG1.3.3	Name of Coding System	I10C
	DG1.3.9	Original Text	DIARRHEA
<b>DG1.6</b>	<b>Diagnosis Type</b>	F	Changeable Data
<b>DG1.15</b>	<b>Diagnosis Priority</b>	1	Changeable Data

#### SPM

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
<b>SPM.1</b>	<b>Set ID - SPM</b>	1	IG Fixed Data
<b>SPM.2</b>	<b>Specimen ID</b>		
	SPM.2.1	Placer Assigned Identifier	
	SPM.2.1.1	Entity Identifier	S201105-23452
	SPM.2.1.2	Namespace ID	NIST EHR
	SPM.2.1.3	Universal ID	2.16.840.1.113883.3.72.5.24
	SPM.2.1.4	Universal ID Type	ISO
<b>SPM.4</b>	<b>Specimen Type</b>		
	SPM.4.1	Identifier	119339001
	SPM.4.2	Text	Stool specimen
	SPM.4.3	Name of Coding System	SCT
<b>SPM.17</b>	<b>Specimen Collection Date/Time</b>		
	SPM.17.1	Range Start Date/Time	
	SPM.17.1.1	Date/Time	20110530123551-0800

**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	ORD723222-4
Placer Group Number	GORD874211
Order Control	NW
Advanced Beneficiary Notice Code	Patient has been informed of responsibility, and agrees to pay for service
Date/Time of Transaction	05/30/2011 12:42:11 PM -0800

**Order details**

Element	Data
Universal Service Identifier	Stool culture with Susceptibility
Observation Date/Time	05/30/2011 12:35:51 PM -0800

**Result copies**

Element	Data
Instance ID	1
NPI Identifier	10092000194
Name	Pafford Hamlin
Action code	AD
Participation	Result Copies To

**Diagnosis information**

Element	Data
Priority	1
Diagnosis ICD-10CM Code	R19.7
Diagnosis type	F

**Specimen Details**

Element	Data
Type	Stool specimen
Collection Start Date/Time	05/30/2011 12:35:51 PM -0800

MSH|^~&#|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|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|20130211184101-0500||OML^O21^OML\_O21|NIST-LOI\_4.0\_1.1-GU|T|2.5.1|||AL|AL|||LOI\_Common\_Component^LOI Base Profile^2.16.840.1.113883.9.66^ISO~LOI\_GU\_Component^LOI GU Profile^2.16.840.1.113883.9.78^ISO~LAB\_PRU\_Component^LOI PRU Profile^2.16.840.1.113883.9.82^ISO

PID|1||PATID|1234^^^NIST MPI&2.16.840.1.113883.3.72.5.30.2&ISO^MR||Jones^William^A^JR^^^L||19610615|M||2106-3^White^HL70005|2100 Kennwood Ave^Apt 41^Los Angeles^CA^90067^^H

ORC|NW|ORD723222-4^NIST EHR^2.16.840.1.113883.3.72.5.24^ISO||GORD874211^NIST EHR^2.16.840.1.113883.3.72.5.24^ISO||||20110530124211-0800||5742200012^Radon^Nicholas^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI||||||2^Patient has been informed of responsibility, and agrees to pay for service^HL70339

OBR|1|ORD723222-4^NIST EHR^2.16.840.1.113883.3.72.5.24^ISO||1100^Stool culture with Susceptibility^99USL^^^^^^Stool Culture with Susceptibility Reflex||20110530123551-0800||||||5742200012^Radon^Nicholas^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI||||||10092000194^Hamlin^Pafford^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI

PRT|1^NIST EHR^2.16.840.1.113883.3.72.5.22^ISO|AD||RCT^Result Copies To^HL70912|10092000194^Hamlin^Pafford^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI||||||^FX^^^323^5555555

DG1|1||R19.7^Diarrhea, unspecified^I10C^^^^^^DIARRHEA||F||||||1

SPM|1|S201105-23452&NIST EHR&2.16.840.1.113883.3.72.5.24&ISO||119339001^Stool specimen^SCT||||||20110530123551-0800