Description

Mr. William A. Jones is a 51 year old white male who presented for a cardiology exam. Dr. Nicholas Radon ordered a lipid panel test to be performed to check for hyperlipidemia. A blood specimen for the lipid panel test was collected from the patient by Dr Radon's nurse and the order submitted electronically using the LOI message to the clinical lab at Century Hospital for processing. As part of the order submission, an ask-at-order-entry (AOE) question regarding the fasting status of the patient was answered "Yes" since Mr Jones had indeed fasted prior to the exam as previously instructed. Additionally, the order includes a request to send a copy of the test results to Dr. Pafford M. Hamlin, Sr.

PreCondition

No Pre Condition.

PostCondition

No Post Condition.

TestObjectives

- Demonstrate capability to support Ask at Order Entry (AOE) questions.

NIST-LOI_3.0_1.1-GU - Lipid_Panel	
Test Case ID	LOI_3.0_1.1-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 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
MSH.4	**Sending Facility**		
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
MSH.5	**Receiving Application**		
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
MSH.6	**Receiving Facility**		
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
MSH.7	**Date/Time Of Message**		
MSH.7.1	Time	20130211184101-0500	System Generated
MSH.9	**Message Type**		
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
MSH.10	**Message Control ID**	NIST-LOI_3.0_1.1-GU	System Generated
MSH.11	**Processing ID**		
MSH.11.1	Processing ID	T	Changeable Data
MSH.12	**Version ID**		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.15	**Accept Acknowledgment Type**	AL	IG Fixed Data
MSH.16	**Application Acknowledgment Type**	AL	Changeable Data
MSH.21	**Message Profile Identifier**		
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
MSH.21[2]	**Message Profile Identifier**		
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
MSH.21[3]	**Message Profile Identifier**		
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

Location	Set ID - PID Data Element	Data	IG Fixed Data Categorization
PID.3	**Patient Identifier List**		
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
PID.5	**Patient Name**		
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
PID.7	**Date/Time of Birth**		
PID.7.1	Date/Time	19610615	Changeable Data
PID.8	**Administrative Sex**	M	Changeable Data
PID.10	**Race**		
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
PID.11	**Patient Address**		
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

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	NW	Test Case Fixed Data
ORC.2	**Placer Order Number**		
ORC.2.1	Entity Identifier	ORD777888	Changeable 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
ORC.4	**Placer Group Number**		
ORC.4.1	Entity Identifier	GORD874244	Changeable 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
ORC.9	**Date/Time of Transaction**		
ORC.9.1	Time	20120628070100	System Generated
ORC.12	**Ordering Provider**		
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	Identifier Type Code	NPI	Changeable Data
ORC.20	**Advanced Beneficiary Notice Code**		

Location	Identifier Data Element	2 Data	Test Case Fixed Data Categorization
ORC.20.1			
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
OBR.1	**Set ID - OBR**	1	IG Fixed Data
OBR.2	**Placer Order Number**		
OBR.2.1	Entity Identifier	ORD777888	Changeable 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
OBR.4	**Universal Service Identifier**		
OBR.4.1	Identifier	400.1	Test Case Fixed Data
OBR.4.2	Text	Lipid Panel - direct LDL	Changeable Data
OBR.4.3	Name of Coding System	99USL	Changeable Data
OBR.4.4	Alternate Identifier	57698-3	Test Case Fixed Data
OBR.4.5	Alternate Text	Lipid panel with direct LDL - Serum or Plasma	Changeable Data
OBR.4.6	Name of Alternate Coding System	LN	Changeable Data
OBR.4.7	Coding System Version ID	20130421	Changeable Data
OBR.4.9	Original Text	Lipid Panel - direct LDL	Changeable Data
OBR.7	**Observation Date/Time**		
OBR.7.1	Date/Time	20110531123551-0800	Changeable Data
OBR.16	**Ordering Provider**		
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
OBR.28	**Result Copies To**		
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
PRT.1	**Participation Instance ID**		
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
PRT.2	**Action Code**	AD	IG Fixed Data
PRT.4	**Participation**		
PRT.4.1	Identifier	RCT	Test Case Fixed Data

Location	Data Element	Data	Categorization
PRT.4.2	Text	Result Copies To	Changeable Data
PRT.4.3	Name of Coding System	HL70912	IG Fixed Data
PRT.4.9	Original Text	Send blind carbon copies to	Changeable Data
PRT.5	**Participation Person**		
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
PRT.15	**Participant Telecommunication Address**		
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 ───

Location	Data Element	Data	Categorization
DG1.1	**Set ID - DG1**	1	IG Fixed Data
DG1.3	**Diagnosis Code - DG1**		
DG1.3.1	Identifier	Z82.49	Test Case Fixed Data
DG1.3.2	Text	Family history of ischemic heart disease and other diseases of the circulatory system	Changeable Data
DG1.3.3	Name of Coding System	I10C	Test Case Fixed Data
DG1.3.9	Original Text	family history of heart diease NOS	Changeable Data
DG1.6	**Diagnosis Type**	W	Changeable Data
DG1.15	**Diagnosis Priority**	2	Changeable Data

─── DG1 ───

Location	Data Element	Data	Categorization
DG1.1	**Set ID - DG1**	2	IG Fixed Data
DG1.3	**Diagnosis Code - DG1**		
DG1.3.1	Identifier	R00.2	Test Case Fixed Data
DG1.3.2	Text	Palpitations	Changeable Data
DG1.3.3	Name of Coding System	I10C	Test Case Fixed Data
DG1.3.9	Original Text	Palpitations	Changeable Data
DG1.6	**Diagnosis Type**	W	Changeable Data
DG1.15	**Diagnosis Priority**	1	Changeable Data

─── OBX ───

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	1	IG Fixed Data
OBX.2	**Value Type**	CWE	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	49541-6	Test Case Fixed Data
OBX.3.2	Text	Fasting status	Changeable Data
OBX.3.3	Name of Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	1902	Test Case Fixed Data
OBX.3.5	Alternate Text	Fasting Status	Changeable Data
OBX.3.6	Name of Alternate Coding System	99USL	Test Case Fixed Data
OBX.5	**Observation Value_Numeric**		
OBX.5.1	Identifier	Y	Test Case Fixed Data
OBX.5.2	Text	Yes	Changeable Data
OBX.5.3	Name of Coding System	HL70136	Test Case Fixed Data

OBX Location	Observation Data Element	O Data	Test Case Categorization
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Date/Time	20110531	Changeable Data
OBX.29	**Observation Type**	SCI	Test Case Fixed Data

SPM

Location	Data Element	Data	Categorization
SPM.1	**Set ID - SPM**	1	IG Fixed Data
SPM.2	**Specimen ID**		
SPM.2.1	Placer Assigned Identifier		
SPM.2.1.1	Entity Identifier	S-666555	Changeable Data
SPM.2.1.2	Namespace ID	NIST EHR	Configurable Data
SPM.2.1.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
SPM.2.1.4	Universal ID Type	ISO	IG Fixed Data
SPM.4	**Specimen Type**		
SPM.4.1	Identifier	119297000	Test Case Fixed Data
SPM.4.2	Text	Blood Specimen	Changeable Data
SPM.4.3	Name of Coding System	SCT	IG Fixed Data
SPM.4.9	Original Text	Blood	Changeable Data
SPM.17	**Specimen Collection Date/Time**		
SPM.17.1	Range Start Date/Time		
SPM.17.1.1	Date/Time	20110531123551-0800	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	ORD777888
Placer Group Number	GORD874244
Order Control	NW
Advanced Beneficiary Notice Code	Patient has been informed of responsibility, and agrees to pay for service
Date/Time of Transaction	06/28/2012 07:01:00 AM

Order details

Element	Data
Universal Service Identifier	Lipid Panel - direct LDL
Observation Date/Time	05/31/2011 12:35:51 PM -0800

Result copies

Element	Data
Instance ID	1
NPI Identifier	10092000194
Name	Pafford Hamlin
Action code	AD
Participation	Send blind carbon copies to

Diagnosis information - 1

Element	Data
Priority	2
Diagnosis ICD-10CM Code	Z82.49
Diagnosis type	W

Diagnosis information - 2

Element	Data
Priority	1
Diagnosis ICD-10CM Code	R00.2
Diagnosis type	W

Observation Result - 1

Observation Result - 1

Element	Data
Observation Identifier (LOINC code)	49541-6
Observation Identifier (local code)	1902
Observation Value	Yes
Observation Result status	O
Date/Time of the Observation	05/31/2011
Observation Type	SCI

Specimen Details

Element	Data
Type	Blood
Collection Start Date/Time	05/31/2011 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_3.0_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||PATID1234^^^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|ORD777888^^2.16.840.1.113883.3.72.5.24^ISO||GORD874244^^2.16.840.1.113883.3.72.5.24^ISO|||||20120628070100|||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|ORD777888^^2.16.840.1.113883.3.72.5.24^ISO||400.1^Lipid Panel - direct LDL^99USL^57698-3^Lipid panel with direct LDL - Serum or Plasma^LN^20130421^^Lipid Panel - direct LDL|||20110531123551-0800|||||||||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^^^^^^Send blind carbon copies to|10092000194^Hamlin^Pafford^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI|||||||||^^FX^^^323^5555555

DG1|1||Z82.49^Family history of ischemic heart disease and other diseases of the circulatory system^I10C^^^^^^family history of heart diease NOS|||W|||||||||2

DG1|2||R00.2^Palpitations^I10C^^^^^^Palpitations|||W|||||||||1

OBX|1|CWE|49541-6^Fasting status^LN^1902^Fasting Status^99USL||Y^Yes^HL70136||||||O|||20110531|||||||||||||||||SCI

SPM|1|S-666555&NIST EHR&2.16.840.1.113883.3.72.5.24&ISO||119297000^Blood Specimen^SCT^^^^^^Blood|||||||||||20110531123551-0800