-Description

Based on LRI 1.0 Sed Rate and LRI 1.1 Sed Rate:

Mr. William A. Jones is a 51 year old white male who presented with pain, swelling, and redness in several joints including his elbows, wrists, knees, and hips. In order to rule out rheumatoid arthritis, Dr. Nicholas Radon ordered an erythrocyte sedimentation rate (ESR or Sed Rate) blood test to be performed, specifying that the laboratory was to draw the blood specimen from the patient the same day. The final result of this test was 10 mm/hr, a normal value with the normal reference range being 0-17 mm/hr. The final result report for this lab test was generated by the LIS and transmitted to the patient's record in the ambulatory EHR used in Dr. Radon's office practice later that same day.

The ESR test instrument was recalibrated and the ESR specimen was re-analyzed. After the recalibration and re-analysis, the result value for Mr. Jones' ESR test changed from 10 mm/hr to 20 mm/hr. A Corrected result report with a result value of 20 mm/hr and an abnormal flag of "H" was generated by the LIS and transmitted to the patient's record in the ambulatory EHR used in Dr. Radon's office practice.

-Comments

This test case is evaluating the proper use of OBR-22 to establish chronological order of reports and correct use of the status codes in OBR-25 and OBX-11 for a corrected result.

PreCondition-

Patient information is pre-loaded in the EHR-S.

and LRI_1.0_1.1-NG has been previously received by the EHR-S and incorporated with the patient's record.

PostCondition

The test message information received by the EHR-S has been incorporated with the patient's record.

TestObjectives

• Demonstrate the ability to update the patient record based on corrected results.

Notes to Testers

Run LRI_1.0-GU_Sed_Rate_Final test case prior to this test case. This test case requires display verification only.

Concentrate on the following areas:

Result Report Status - now C instead of F (OBR-25)

Result date/time is later than before (OBR-22)

Result for Sed Rate changed from 10 to 20 (OBX-5), which changed the interpretation (OBX-8) from N to H and result status (OBX-11) is C An additional comment (NTE after OBX) is displayed at the result level, indicating: "Specimen re-analyzed per request of ordering provider."

LRI_1.0_2.1-NG - Maximally Populated SED Rate message - Corrected Results

Test Case ID LRI_1.0_2.1-NG

-MSH-

Location	Data Element	Data	Categorization
MSH.1	Field Separator		IG Fixed Data
MSH.2	Encoding Characters	~\&#</td><td>IG Fixed Data</td></tr><tr><td>MSH.3</td><td>Sending Application</td><td></td><td></td></tr><tr><td>MSH.3.1</td><td>Namespace ID</td><td>NIST Test Lab APP</td><td>Configurable Data</td></tr><tr><td>MSH.3.2</td><td>Universal ID</td><td>372520</td><td>Configurable Data</td></tr><tr><td>MSH.3.3</td><td>Universal ID Type</td><td>L</td><td>Configurable Data</td></tr><tr><td>MSH.4</td><td>Sending Facility</td><td></td><td></td></tr><tr><td>MSH.4.1</td><td>Namespace ID</td><td>NIST Lab Facility</td><td>Configurable Data</td></tr><tr><td>MSH.4.2</td><td>Universal ID</td><td>372521</td><td>Configurable Data</td></tr><tr><td>MSH.4.3</td><td>Universal ID Type</td><td>L</td><td>Configurable Data</td></tr><tr><td>MSH.6</td><td>Receiving Facility</td><td></td><td></td></tr><tr><td>MSH.6.1</td><td>Namespace ID</td><td>NIST EHR Facility</td><td>Configurable Data</td></tr><tr><td>MSH.6.2</td><td>Universal ID</td><td>372523</td><td>Configurable Data</td></tr><tr><td>MSH.6.3</td><td>Universal ID Type</td><td>L</td><td>Configurable Data</td></tr><tr><td>MSH.7</td><td>Date/Time Of Message</td><td></td><td></td></tr><tr><td>MSH.7.1</td><td>Time</td><td>20150926140551</td><td>System Generated</td></tr><tr><td>MSH.9</td><td>Message Type</td><td></td><td></td></tr><tr><td>MSH.9.1</td><td>Message Code</td><td>ORU</td><td>IG Fixed Data</td></tr><tr><td>MSH.9.2</td><td>Event Type</td><td>R01</td><td>IG Fixed Data</td></tr><tr><td>MSH.9.3</td><td>Message Structure</td><td>ORU_R01</td><td>IG Fixed Data</td></tr><tr><td>MSH.10</td><td>Message Control ID</td><td>LRI_1.0_2.1-NG</td><td>System Generated</td></tr><tr><td>MSH.11</td><td>Processing ID</td><td></td><td></td></tr><tr><td>MSH.11.1</td><td>Processing ID</td><td>D</td><td>Changeable Data</td></tr><tr><td>MSH.12</td><td>VersionID</td><td></td><td></td></tr><tr><td>MSH.12.1</td><td>Version ID</td><td>2.5.1</td><td>IG Fixed Data</td></tr><tr><td>MSH.15</td><td>Accept Acknowledgment Type</td><td>AL</td><td>IG Fixed Data</td></tr><tr><td>MSH.16</td><td>Application Acknowledgment Type</td><td>AL</td><td>IG Fixed Data</td></tr><tr><td>MSH.21</td><td>Message Profile Identifier</td><td></td><td></td></tr><tr><td>MSH.21.1</td><td>Entity Identifier</td><td>LRI Common Component</td><td>IG Fixed Data</td></tr><tr><td>MSH.21.2</td><td>Namespace ID</td><td>LRI Base Profile</td><td>Changeable Data</td></tr><tr><td>MSH.21.3</td><td>Universal ID</td><td>2.16.840.1.113883.9.16</td><td>IG Fixed Data</td></tr><tr><td>MSH.21.4</td><td>Universal ID Type</td><td>ISO</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[2]</td><td>Message Profile Identifier</td><td></td><td></td></tr><tr><td>MSH.21[2].1</td><td>Entity Identifier</td><td>LRI_NG_Component</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[2].2</td><td>Namespace ID</td><td>LRI Base Profile</td><td>Changeable Data</td></tr><tr><td>MSH.21[2].3</td><td>Universal ID</td><td>2.16.840.1.113883.9.13</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[2].4</td><td>Universal ID Type</td><td>ISO</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[3]</td><td>Message Profile Identifier</td><td></td><td></td></tr><tr><td>MSH.21[3].1</td><td>Entity Identifier</td><td>LRI_FRU_Component</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[3].2</td><td>Namespace ID</td><td>LRI NG Profile</td><td>Changeable Data</td></tr><tr><td>MSH.21[3].3</td><td>Universal ID</td><td>2.16.840.1.113883.9.83</td><td>IG Fixed Data</td></tr><tr><td>MSH.21[3].4</td><td>Universal ID Type</td><td>ISO</td><td>IG Fixed Data</td></tr></tbody></table>	

-PID-

Location	Data Element	Data	Categorization
PID.1	Set ID - PID	1	IG Fixed Data
PID.3	Patient Identifier List		
PID.3.1	ID Number	PATID1234	Configurable Data
PID.3.4	Assigning Authority		

P Doğatibn	Namespace Element	NIST MPI Data	Changeallegorization	
PID.3.5	Identifier Type Code	MR	Configurable 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.5.7	Name Type Code	L	Changeable Data	
PID.7	Date/Time of Birth			
PID.7.1	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 the Coding System	HL70005	Changeable Data	
PID.10.9	Original Text	White	Changeable Data	
PID.10[2]	Race			
PID.10[2].1	Identifier	1002-5	Changeable Data	
PID.10[2].2	Text	American Indian or Alaska Native	Changeable Data	
PID.10[2].3	Name of the Coding System	HL70005	Changeable Data	
PID.10[2].9	Original Text	American Indian	Changeable Data	
PID.18	Patient Account Number			
PID.18.1	ID Number	PATID1234	Configurable Data	
PID.18.4	Assigning Authority			
PID.18.4.1	Namespace ID	NIST MPI	Changeable Data	
PID.18.5	Identifier Type Code	AN	Configurable Data	

-ORC-

- ORC -				
Location	Data Element	Data	Categorization	
ORC.1	Order Control	RE	Test Case Fixed Data	
ORC.2	Placer Order Number			
ORC.2.1	Entity Identifier	ORD723222	Changeable Data	
ORC.2.2	Namespace ID	NIST EHR	Changeable Data	
ORC.3	Filler Order Number			
ORC.3.1	Entity Identifier	R-783274	Changeable Data	
ORC.3.2	Namespace ID	NIST Lab Filler		
ORC.4	Placer Group Number			
ORC.4.1	Entity Identifier	GORD874211	Changeable Data	
ORC.4.2	Namespace ID	NIST EHR		
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.12.4	Second and Further Given Names or Initials Thereof	M	Changeable Data	
ORC.12.5	Suffix (e.g., JR or III)	JR	Changeable Data	
ORC.12.6	Prefix (e.g., DR)	DR	Changeable Data	
ORC.12.9	Assigning Authority			
ORC.12.9.1	Namespace ID	NPI	Changeable 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
OBR.1	Set ID - OBR	1	IG Fixed Data

OBR _{Location}	Placer Orden National Placer Orden	Data	Categorization	
OBR.2.1	Entity Identifier	ORD723222	Changeable Data	
OBR.2.2	Namespace ID	NIST EHR	Changeable Data	
OBR.3	Filler Order Number			
OBR.3.1	Entity Identifier	R-783274	Changeable Data	
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data	
OBR.4	Universal Service Identifier			
OBR.4.1	Identifier	30341-2	Test Case Fixed Data	
OBR.4.2	Text	Erythrocyte sedimentation rate	Test Case Fixed Data	
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data	
OBR.4.4	Alternate Identifier	500	Changeable Data	
OBR.4.5	Alternate Text	Erythrocyte sedimentation rate	Changeable Data	
OBR.4.6	Name of Alternate Coding System	99USL	Changeable Data	
OBR.4.7	Coding System Version	2.52	Changeable Data	
OBR.4.9	Original Text	Erythrocyte sedimentation rate	Changeable Data	
OBR.7	Observation Date/Time			
OBR.7.1	Time	201509251400	Changeable Data	
OBR.11	Specimen Action Code	L	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.16.4	Second and Further Given Names or Initials Thereof	M	Changeable Data	
OBR.16.5	Suffix (e.g., JR or III)	JR	Changeable Data	
OBR.16.6	Prefix (e.g., DR)	DR	Changeable Data	
OBR.16.9	Assigning Authority			
OBR.16.9.1	Namespace ID	NPI	Changeable Data	
OBR.16.10	Name Type Code	L	Changeable Data	
OBR.16.13	Identifier Type Code	NPI	Changeable Data	
OBR.22	Results Rpt/Status Chng - Date/Time			
OBR.22.1	Time	20150926140551	Changeable Data	
OBR.25	Result Status	С	Test Case Fixed 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.28.4	Second and Further Given Names or Initials Thereof	M	Changeable Data	
OBR.28.5	Suffix (e.g., JR or III)	Sr.	Changeable Data	
OBR.28.6	Prefix (e.g., DR)	Dr.	Changeable Data	
OBR.28.9	Assigning Authority		<i>G</i>	
OBR.28.9.1	Namespace ID	NPI	Changeable Data	
OBR.28.10	Name Type Code	L	Changeable Data	
OBR.28.13	Identifier Type Code	NPI	Changeable Data	
OBR.28.13	Results Handling	114.1	Changeaoic Data	
OBR.49.1	Identifier	CC	Test Case Fixed Data	
ODK.47.1	тиспинст	CC Test Case Fixed Date		
OBR.49.2	Text	Copies Requested Test Case Fixed Data HL70507 IG Fixed Data		

-NTE-

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	1	IG Fixed Data
NTE.3	Comment	Patient is extremely anxious about needles used for drawing blood.\.br\If patient is overly frightened, nervous, or anxious	Changeable Data

Location	Data Element	please reschedule beggdadraw.	Categorization	
		NTE-		
Location	Data Element	Data	Categorization	
NTE.1	Set ID - NTE	2	IG Fixed Data	
NTE.3	Comment	Patient is allergic to latex	Changeable Data	
		TQ1		
Location	Data Element	Data	Categorization	
TQ1.1	Set ID - TQ1	1	IG Fixed Data	
TQ1.7	Start date/time			
TQ1.7.1	Time	201509251400	Changeable Data	
TQ1.8	End date/time			
TQ1.8.1	Time	201509261400	Changeable Data	
TQ1.9	Priority			
TQ1.9.1	Identifier	R	Changeable Data	
TQ1.9.2	Text	Routine	Changeable Data	
TQ1.9.3	Name of the Coding System	HL70485	Changeable Data	
TQ1.9.9	Original Text	Routine	Changeable Data	
		—OBX—		
Location	Data Element	Data	Categorization	
OBX.1	Set ID - OBX	1	IG Fixed Data	
OBX.2	Value Type	NM	Test Case Fixed Data	
OBX.3	Observation Identifier			
OBX.3.1	Identifier	30341-2	Test Case Fixed Data	
OBX.3.2	Text	Erythrocyte sedimentation rate	Test Case Fixed Data	
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data	
OBX.3.4	Alternate Identifier	815117	Changeable Data	
OBX.3.5	Alternate Text	ESR	Changeable Data	
OBX.3.6	Name of Alternate Coding System	99USL	Changeable Data	
OBX.3.7	Coding System Version	2.52	Changeable Data	
OBX.3.9	Original Text	Erythrocyte sedimentation rate	Changeable Data	
OBX.4	Observation Sub-ID			
OBX.4.2	Group	1	Test Case Fixed Data	
OBX.4.3	Sequence	1	Test Case Fixed Data	
OBX.4.4	Identifier	1	Test Case Fixed Data	
OBX.5	Observation Value	20	Test Case Fixed Data	
OBX.6	Units			
OBX.6.1	Identifier	mm/h	Changeable Data	
		mm/h Changeable Data millimeter per hour Changeable Data		
OBX.6.2	Text	millimeter per nour	Changeable Data	

UCUM

0 to 17

201509251400

20150926130550

Century Hospital

CLIA

24D9871327

XX

1.9

Η

С

Changeable Data

Test Case Fixed Data

Test Case Fixed Data

OBX.6.3

OBX.6.7

OBX.7

OBX.8

OBX.11

OBX.14

OBX.19

OBX.23

OBX.14.1

OBX.19.1

OBX.23.1

OBX.23.6

OBX.23.7

OBX.23.10

OBX.24

OBX.23.6.1

Name of the Coding System

Coding System Version

Observation Result Status

Date/Time of the Analysis

Organization Name

Assigning Authority

Namespace ID

Identifier Type Code

Organization Identifier

Performing Organization Address

Date/Time of the Observation

Performing Organization Name

Reference Range

Abnormal Flags

Time

OB X ocation	Street Addr Data Element	Data	Categorization
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	В	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.1	ID Number	5432178916	Changeable Data
OBX.25.2	Family Name		
OBX.25.2.1	Surname	Knowsalot	Changeable Data
OBX.25.3	Given Name	Phil	Changeable Data
OBX.25.4	Second and Further Given Names or Initials Thereof	J.	Changeable Data
OBX.25.5	Suffix (e.g., JR or III)	III	Changeable Data
OBX.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.25.9	Assigning Authority		
OBX.25.9.1	Namespace ID	NPI	Changeable Data
OBX.25.10	Name Type Code	L	Changeable Data
OBX.25.13	Identifier Type Code	NPI	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data
OBX.30	Observation SubType	UNSP	Test Case Fixed Data

-NTE-

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	1	IG Fixed Data
NTE.3	('ammant	Specimen re-analyzed per request of ordering provider.	Changeable Data

-SPM-

Location	Data Element	Data	Categorization	
SPM.1	Set ID - SPM	1	IG Fixed Data	
SPM.2	Specimen ID			
SPM.2.1				
SPM.2.1.1		S-2015-66	Configurable Data	
SPM.2.1.2		GoodHealthC_EHR	Configurable Data	
SPM.2.2				
SPM.2.2.1		S-9911-33	Changeable Data	
SPM.2.2.2		NIST Lab Filler	Changeable Data	
SPM.4	Specimen Type			
SPM.4.1	Identifier	119297000	Changeable Data	
SPM.4.2	Text	BLD	Changeable Data	
SPM.4.3	Name of the Coding System	SCT	Changeable Data	
SPM.4.4	Alternate Identifier	BldSpc	Changeable Data	
SPM.4.5	Alternate Text	Blood	Changeable Data	
SPM.4.6	Name of Alternate Coding System	99USL	Changeable Data	
SPM.4.7	Coding System Version	201509USEd	Changeable Data	
SPM.4.9	Original Text	Blood Specimen	Changeable Data	
SPM.17	Specimen Collection Date/Time			
SPM.17.1	Range Start Date/Time			
SPM.17.1.1	Time	201509251400	Changeable Data	
SPM.24	Specimen Condition			
SPM.24.1	Identifier	COOL	Changeable Data	
SPM.24.2	Text	Cool	Changeable Data	
SPM.24.3	Name of the Coding System	HL70493	Changeable Data	
SPM.24.4	Alternate Identifier	CL Changeable Dat		

SPMocation	Alternate T Data Element	Cool	Data	Chang Caltle dorization
SPM.24.6	Name of Alternate Coding System	99USL		Changeable Data
SPM.24.9	Original Text	Cool		Changeable Data

Patient Information—						
Data						
William A Jones						
06/15/1961						
Male						
White						
American Indian or Alaska Native						

Order Observation

Ordering Provider

Element	Data
Name	DR Nicholas M Radon JR
Identifier number	5742200012

Observation Details

Element	Data					
Observation General Information						
Placer Order Number	ORD723222					
Filler Order Number	R-783274					
Placer Group Number	GORD874211					
Parent Universal Service Identifier						
Identifier						
Text						
Alt Identifier						
Alt Text						
Original Text						
Observation Details						
Universal Service Identifier	Erythrocyte sedimentation rate					
Observation Date/Time	09/25/2015 2:00 PM					
Observation end Date/Time						
Specimen Action Code	L					
Relevant Clinical Information						
Relevant Clinical Information Original Text						
Observation Result Information						
Result Status	C					
Results Report/Status Change - Date/Time	09/26/2015 2:05 PM					
Results Copy To						
Name	Dr. Pafford M Sr.					
Identifier	10092000194					
Results Handling						
Standard						
Observation Notes						

Notes and comments	Patient is extremely anxious about needles used for drawing blood.\br\If patient is overly frightened, nervous, or anxious please reschedule blood draw.
Notes and comments	Patient is allergic to latex

Element	Data
Priority	Routine
Start Date/time	09/25/2015 2:00 PM
End Date/time	09/26/2015 2:00 PM

Results Performing Laboratory

Element	Data
Laboratory Name	Century Hospital
Organization identifier	24D9871327
Address	2070 Test Park Los Angeles CA 90067 USA
Director Name	Dr. Phil J. Knowsalot III
Director identifier	5432178916

-Specimen Information-

Element	Data	
Specimen Type	BLD	
Alt Specimen Type	Blood	
Specimen Original Text	Blood Specimen	
Start date/time	201509251400	
Specimen Condition	Cool	
Alt Specimen Condition	Cool	
Condition Original Text	Cool	

-Lab results-

Element				Data					
Test performe	ed			Erythrocyte sedimentation rate					
Test Report date			09/26/2015 14:05						
Result Observation Name Result UOM Range			Abnormal Flag Date/Time of Observation Date/Time of Analysis Notes				Notes		
Erythrocyte sedimentation rate	20	millimeter per hour	0 to 17	Н	С	09/25/2015 14:00	09/26/2015 13:05	Specimen re- analyzed per request of ordering provider.	

HL7 v2.5 ORU^R01^ORU_R01 Message: Incorporation of Laboratory Results								
Test Case ID	LRI_1.0_2.1-NG							
Juror ID								
Juror Name								
HIT System Tested								
Inspection Date/Time								
Inspection Settlement (Pass/Fail)	Pass	Fail						
Inspection Settlement (Lass/Pan)								
Reason Failed								
Juror Comments								

This Test Case-specific Juror Document provides a checklist for the Tester to use during testing for assessing the Health IT Module's ability to display and incorporate required data elements from the information received in the LRI message. Additional data from the message or from the Health IT Module are permitted to be displayed and incorporated by the Module. Grayed-out fields in the Juror Document indicate where no data for that data element were included in the LRI message for the given Test Case.

The format of the Display Verification section of this Juror Document is for ease-of-use by the Tester and does not indicate how the Health IT Module display must be designed.

Display Verification

Legend for Display Requirement

Data in **bold red** text: HIT Module must display exact version of stored data

Data in bold black italics text: HIT Module must display exact version of data received in the LRI message

Data in regular text: HIT Module may display equivalent version of stored data

Patient Information - Display Verification								
Patient Identifier Patient Name DOB Sex Race Tester Comme								
PATID1234 William A Jones 06/15/1961 M White; American Indian or Alaska Native								
When a given patient has more than one Patient ID Number, the HIT module may display the ID Number that is most appropriate for the context (e.g., inpatient ID Number versus ambulatory ID Number.)								

	Lab Results - Display Verification								
Test Performed:	Performed: Erythrocyte sedimentation rate								
Test Report Date:	09/26/2015 14:05:51								
Result Report Status									
Note:	Note: Patient is extremely anxious about needles used for drawing blood. If patient is overly frightened, nervous, or anxious please reschedule blood draw.								
Note:	Note: Patient is allergic to latex								
Unservation	bservation Result Value UOM Reference Abnormal Status of Date/Time Date/Time Of Analysis Tester Commen								Tester Comment
Erythrocyte sedimentation rate	20 millimeter o to 17 H C 09/25/2015 13:05:50 09/26/2015								
Note Specimen re-analyzed per request of ordering provider.									

Performing Organization Information - Display Verification							
Data Element Name	Data	Tester Comment					
Organization Name	Century Hospital						
Organization Address	Organization Address						
Street address	2070 Test Park						
Other designation							
City	Los Angeles						
State	CA						
Zip code	90067						

Performing C	Performing Organization Medical Director Information - Display Verification							
Data Element Name	Data Element Name Data Tester Comment							
Medical Director Name								
Family Name								
Surname	Knowsalot							
Given Name	Phil							
Second and Further Given Names or Initials Thereof	J.							
Suffix (e.g., JR or III)	III							
Prefix (e.g., DR)	Dr.							

Specimen Information - Display Verification						
Data Element Name	Tester Comment					
Specimen Type(Specimen Source)	Blood Specimen					
Specimen Collection Date/Time - Start	09/25/2015 14:00:					
Specimen Collection Date/Time - End						
Specimen Reject Reason						
Specimen Condition	Cool					

Order Information - Display Verification							
Data Element Name	Data	Tester Comment					
Relevant Clinical Information							
Placer Order Number Entity ID	ORD723222						
Ordering Provider							
Family Name							
Surname	Radon						
Given Name	Nicholas						
Second and Further Given Names or Initials Thereof	M						
Suffix (e.g., JR or III)	JR						
Prefix (e.g., DR)	DR						
Results Copies To							
Family Name							
Surname	Hamlin						
	Pafford						
Second and Further Given Names or Initials Thereof	М						
Suffix (e.g., JR or III)	Sr.						
Prefix (e.g., DR)	Dr.						
Timing/Quantity Information							
Start Date/Time	09/25/2015 14:00:						
End Date/Time	09/26/2015 14:00:						
Priority	Routine						

Incorporate Verification

Legend for Store Requirement

S-EX: Store exact

 $S-TR-R: Translate \ and \ store \ translation \ (exact \ value \ can \ be \ re-created \ from \ translation \ any \ time)$

S-EX-A: Store exact by association

S-RC: Process and re-create

S-EQ : Store equivalent

(See "Instructions to Testers for Verification of Store Requirements" at the end of this Juror Document for additional details.)

	Patient Information Details- Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment	
PID-3	Patient Identifier List				
PID-3.1	ID Number	S-EX-A	PATID1234		
PID-3.4	Assigning Property				
PID-3.4.1	Namespace ID	S-EX-A	NIST MPI		
PID-3.4.2	Universal ID	S-EX-A			
PID-3.4.3	Universal ID Type	S-EX-A			
PID-3.5	Identifier Type Code	S-RC	MR		
PID-5	Patient Name				
PID-5.1	Family Name				
PID-5.1.1	Surname	S-EX-A	Jones		
PID-5.2	Given Name	S-EX-A	William		
PID-5.3	Second and Further Given Names or Initials Thereof	S-EX-A	A		
PID-5.4	Suffix (e.g., JR or III)	S-EX-A			
PID-5.7	Name Type Code	S-RC	L		
PID-7	Date/Time of Birth				
PID-7.1	Time	S-EQ	06/15/1961		
PID-8	Administrative Sex	S-TR-R	М		
PID-10	Race				
PID-10.1	Identifier	S-RC	2106-3		
PID-10.2	Text	S-RC	White		
PID-10.3	Name of Coding System	S-RC	HL70005		
PID-10	Race				
PID-10.1	Identifier	S-RC	1002-5		
PID-10.2	Text	S-RC	American Indian or Alaska Native		
PID-10.3	Name of Coding System	S-RC	HL70005		

Order Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
ORC-2/OBR-2	Placer Order Number			
ORC-2.1/OBR- 2.1	Entity Identifier	S-EX-A	ORD723222	
ORC-2.2/OBR- 2.2	Namespace ID	S-EX-A	NIST EHR	
ORC-2.3/OBR- 2.3	Universal ID	S-EX-A		
ORC-2.4/OBR- 2.4	Universal ID Type	S-EX-A		
ORC-3/OBR-3	Filler Order Number			
ORC-3.1/OBR- 3.1	Entity Identifier	S-EX	R-783274	
ORC-3.2/OBR- 3.2	Namespace ID	S-EX-A	NIST Lab Filler	
ORC-3.3/OBR- 3.3	Universal ID	S-EX-A		
ORC-3.4/OBR- 3.4	Universal ID Type	S-EX-A		
ORC-12/OBR-16	Ordering Provider			
ORC-12.1/OBR- 16.1	ID Number	S-RC	5742200012	
ORC- 12.2/OBR-16.2	Family Name			
ORC- 12.2.1/OBR-16.2.1	Surname	S-RC	Radon	
ORC-12.3/OBR- 16.3	Given Name	S-RC	Nicholas	
16.4	Second and Further Given Names or Initials Thereof	S-RC	M	
		S-RC	JR	
ORC-12.6/OBR- 16.6	Prefix (e.g., DR)	S-RC	DR	
ORC- 12.9/OBR-16.9	Assigning Authority			
ORC- 12.9.1/OBR-16.9.1	Namespace ID	S-EX-A	NPI	
ORC- 12.9.2/OBR-16.9.2	Universal ID	S-EX-A		
ORC- 12.9.3/OBR-16.9.3	Universal ID Type	S-EX-A		
ORC- 12.10/OBR-16.10	Name Type Code	S-RC	L	
ORC- 12.13/OBR-16.13	Identifier Type Code	S-RC	NPI	

	Note- Incorporate Verification					
Location	Data Element Name	Store Requirement	Data	Tester Comment		
NTE-3		S-EX	Patient is extremely anxious about needles used for drawing blood. If patient is overly frightened, nervous, or anxious please reschedule blood draw.			
NTE-3	Note	S-EX	Patient is allergic to latex			

Performing Organization Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
OBX-23	Performing Organization Name			
OBX-23.1	Organization Name (Note 1)	S-TR-R	Century Hospital	
OBX-23.6	Assigning Authority (Note 2)			
OBX-23.6.1	Namespace ID	S-EX-A	CLIA	
OBX-23.6.2	Universal ID	S-EX-A		
OBX-23.6.3	Universal ID Type	S-EX-A		
OBX-23.7	Identifier Type Code	S-RC	XX	
OBX-23.10	Organization Identifier	S-TR-R	24D9871327	
OBX-24	Performing Organization Address			
OBX-24.1	Street Address			
OBX-24.1.1	Street or Mailing Address	S-EX-A	2070 Test Park	
OBX-24.2	Other Designation	S-EX-A		
OBX.24.3	City	S-EX-A	Los Angeles	
OBX-24.4	State or Province	S-EX-A	CA	
OBX-24.5	Zip or Postal Code	S-EX-A	90067	
OBX-24.6	Country	S-TR-R	USA	
OBX-25	Performing Organization Medical Director			
OBX-25.1	ID Number	S-RC	5432178916	
OBX-25.2	Family Name			
OBX-25.2.1	Surname	S-TR-R	Knowsalot	
OBX-25.3	Given Name	S-TR-R	Phil	
OBX-25.4	Second and Further Given Names or Initials Thereof	S-TR-R	J.	
OBX-25.5	Suffix (e.g., JR or III)	S-TR-R	III	
OBX-25.6	Prefix (e.g., DR)	S-TR-R		
OBX-25.9	Assigning Authority (Note 2)			
OBX-25.9.1	Namespace ID	S-EX-A	NPI	
OBX-25.9.2	Universal ID	S-EX-A		
OBX-25.9.3	Universal ID Type	S-EX-A		
OBX-25.10	Name Type Code	S-RC	L	
OBX-25.13	Identifier Type Code	S-RC	NPI	

Note 1 - The HIT Module must store the Organization Name or be able to recreate it. If the HIT Module is able to demonstrate Organization Name: ID is always 1:1, then the HIT Module is permitted to store and recreate (S-TR-R).

Note 2 - Determine requirement for support of 2nd component or 3rd and 4th component based on the EI or HD Profile

Order Information (cont'd) - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
	Universal Service Identifier (Note 1)			
OBR-4.1	Identifier	S-TR-R	30341-2	
OBR-4.2	Text	S-EX-A	Erythrocyte sedimentation rate	
	Name of the Coding System	S-RC	LN	
OBR-4.4	Alternate Identifier	S-TR-R	500	
OBR-4.5	Alternate Text	S-EX-A	Erythrocyte sedimentation rate	
OBR-4.6	Name of Alternate Coding System	S-RC	99USL	
OBR-4.9	Original Text	S-EX	Erythrocyte sedimentation rate	
OBR-7/SPM-17.1	Observation Date/Time			
OBR-7.1/SPM- 17.1.1	Time	S-EQ	09/25/2015 14:00:	
	Observation End Date/Time			
OBR-8.1/SPM- 17.2.1	Time	S-EQ		
	Relevant Clinical Information			
OBR-13.1	Identifier	S-TR-R		
OBR-13.2	Text	S-EX-A		
UBK-I11	Name of the Coding System	S-RC		
OBR-13.9	Original Text	S-EX		
OBR-22	Results Rpt/Status Chng - Date/Time			
OBR-22.1	Time	S-EQ	09/26/2015 14:05:51	
OBR-25	Result Status	S-TR-R	С	
OBR-28	Result Copies To			
OBR-28.1	ID Number	S-RC	10092000194	
OBR-28.2	Family Name			
OBR-28.2.1	Surname	S-EX-A	Hamlin	
OBR-28.3	Given Name	S-EX-A	Pafford	
OBR-28.4	Second and Further Given Names or Initials Thereof	S-EX-A	М	
OBR-28.5	Suffix (e.g., JR or III)	S-EX-A	Sr.	
OBR-28.6	Prefix (e.g., DR)	S-EX-A	Dr.	
OBR-28.9	Assigning Authority			
OBR-28.9.1	Namespace ID	S-EX-A	NPI	
OBR-28.9.2	Universal ID	S-EX-A		
OBR-28.9.3	Universal ID Type	S-EX-A		
OBR-28.10	Name Type Code	S-TR-R	L	
OBR-28.13	Identifier Type Code	S-RC	NPI	

Note 1 -Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
OBX-3	Observation Identifier (Note 1)			
OBX-3.1	Identifier	S-TR-R	30341-2	
OBX-3.2	Text	S-EX-A	Erythrocyte sedimentation rate	
OBX-3.3	Name of the Coding System	S-RC	LN	
OBX-3.4	Alternate Identifier	S-TR-R	815117	
OBX-3.5	Alternate Text	S-EX-A	ESR	
OBX-3.6	Name of Alternate Coding System	S-RC	99USL	
OBX-3.9	Original Text	S-EX	Erythrocyte sedimentation rate	
OBX-5	Observation Value	S-EQ	20	
OBX-6	Units (Note 2)			
OBX-6.1	Identifier	S-TR-R	mm/h	
OBX-6.2	Text	S-TR-R	millimeter per hour	
OBX-6.3	Name of the Coding System	S-RC	UCUM	
OBX-6.4	Alternate Identifier	S-TR-R		
OBX-6.5	Alternate Text	S-TR-R		
OBX-6.6	Name of Alternate Coding System	S-RC		
OBX-6.9	Original Text	S-EX		
OBX-7	Reference Range	S-EX	0 to 17	
OBX-8	Abnormal Flags	S-TR-R	Н	
OBX-11	Observation Result Status	S-TR-R	С	
OBX-14	Date/Time of the Observation			
OBX-14.1	Time	S-EQ	09/25/2015 14:00:	
OBX-19	Date/Time of the Analysis			
OBX-19.1	Time	S-EQ	09/26/2015 13:05:50	

Note 1 - Store the <u>Identifier</u> and the <u>Text</u> for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If <u>Original Text</u> field is populated, MUST store the exact data received.

Note 2 - If both UOM triplets are populated, receiver may choose to store the data received in either triplet; translations must result in equivalent UOM that do not require a change in the numeric result.

	Note - Incorporate Verification					
Location	Data Element Name	Store Requirement	Data	Tester Comment		
NTE-3	Note	S-EX	Specimen re-analyzed per request of ordering provider.			

	Specimen Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment	
SPM-4	Specimen Type (Note 1)				
SPM-4.1	Identifier	S-TR-R	119297000		
SPM-4.2	Text	S-EX-A	BLD		
SPM-4.3	Name of the Coding System	S-RC	SCT		
SPM-4.4	Alternate Identifier	S-TR-R	BldSpc		
SPM-4.5	Alternate Text	S-EX-A	Blood		
SPM-4.6	Name of Alternate Coding System	S-RC	99USL		
SPM-4.9	Original Text	S-EX	Blood Specimen		
SPM-24	Specimen Condition (Note 1)				
SPM-24.1	Identifier	S-TR-R	COOL		
SPM-24.2	Text	S-EX-A	Cool		
SPM-24.3	Name of the Coding System	S-RC	HL70493		
SPM-24.4	Alternate Identifier	S-TR-R	CL		
SPM-24.5	Alternate Text	S-EX-A	Cool		
SPM-24.6	Name of Alternate Coding System	S-RC	99USL		
SPM-24.9	Original Text	S-EX	Cool		

No	te 1 -	he HIT must store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as
		If Original Text field is populated, MUST store the exact data received.

Timing/Quantity Information- Incorporate Verification							
Location	Data Element Name	Store Requirement	Data	Tester Comment			
TQ1-7	Start Date/Time						
TQ1-7.1	Time	S-EQ	09/25/2015 14:00:				
TQ1-8	End Date/Time						
TQ1-8.1	Time	S-EQ	09/26/2015 14:00:				
TQ1-9	Priority						
TQ1-9.1	Identifier	S-TR-R	R				
TQ1-9.2	Text	S-EX-A	Routine				
TQ1-9.3	Name of Coding System	S-RC	HL70485				
TQ1-9.9	Original Text	S-EX	Routine				

Instructions to Testers for Verification of Store Requirements

Note: The HIT Module being tested is always allowed to incorporate/store the exact data received in the LRI message even if a given Store Requirement does not explicitly state that the HIT Module is permitted to do so.

Store Requirement	Definition	Instructions for Verification of Requirement During Conformance Testing
S-EX	Store Exact	The HIT Module being tested must be designed to incorporate/store only the exact data received in the LRI message. • Tester must verify that the HIT Module being tested incorporates/stores in the patient's laboratory result record only the exact data received in the LRI message, and that the HIT Module does not just store an equivalent of that exact data or just a pointer to the exact data.
S-EX-A	Store exact by association	The HIT Module being tested must be designed (1) to incorporate/store the exact data received in the LRI message OR (2) to use a pointer to a location (e.g., file/table in or accessible to the HIT Module) where the exact data can be obtained. • Tester must verify that the HIT Module being tested incorporates/stores in the patient's laboratory result record the exact data received in the LRI message OR that the HIT Module incorporates/stores in the patient's laboratory result record a pointer to the exact data received in the LRI message. Example: Placer Number; the HIT-originated Placer Number received in the LRI message may be incorporated/stored using a pointer rather than being stored redundantly in the patient's lab result record.
S-EQ	Store equivalent	The HIT Module being tested must be designed to transform the exact data received in the LRI message to an equivalent format and then incorporate/store the equivalent format. • Tester must verify that the HIT Module being tested transforms the exact data received in the LRI message to an equivalent format and incorporates/stores the equivalent format in the patient's laboratory result record.
S-TR-R	Translate and store translation (exact value can be re-created from translation any time)	The HIT Module being tested must be designed to transform the exact data received in the LRI message to an equivalent value and then incorporate/store the equivalent value. • Tester must verify that the HIT Module being tested incorporates/stores in the patient's laboratory result record the equivalent value. • Tester must also verify that the HIT Module is able to re-create from this equivalent value the exact data received in the LRI message.
S-RC	Process and re-create	The HIT Module being tested must be designed to process and incorporate/store in an "abstract-able manner" (e.g., using the HIT Module's data model) the exact data received in the LRI message and to re-create the exact data (e.g., from the HIT Module's data model). • Tester must verify that the HIT Module being tested processes and abstractly incorporates/stores in the patient's laboratory result record the exact data received in the LRI message. • Tester also must verify that the HIT Module is able to re-create the exact data received in the LRI message by abstracting the data (e.g., from the HIT Module's data model). Example: Identifier Type Code; the HIT Module uses a separate file/table to store Social Security Numbers versus internal Medical Record Numbers, and does not need to retain the Identifier Type Code

MSH|^~\&#|NIST Test Lab APP^372520^L|NIST Lab Facility^372521^L||NIST EHR Facility^372523^L|20150926140551||ORU^R01^ORU

_R01|LRI_1.0_2.1-NG|D|2.5.1|||AL|AL|||||LRI_Common_Component^LRI Base Profile^2.16.840.1.113883.9.16^ISO~LRI_NG_Component t^LRI Base Profile^2.16.840.1.113883.9.13^ISO~LRI_FRU_Component^LRI NG Profile^2.16.840.1.113883.9.83^ISO

 $PID|1||PATID1234^{\wedge\wedge}NIST\ MPI^MR||Jones^William^A^{\wedge\wedge\wedge}L||19610615|M||2106-3^White^HL70005^{\wedge\wedge\wedge\wedge}White\sim 1002-5^American\ India$

n or Alaska Native^HL70005^^^^^American Indian|||||||PATID1234^^^NIST MPI^AN

ORC|RE|ORD723222^NIST EHR|R-783274^NIST Lab Filler|GORD874211^NIST EHR|||||||||5742200012^Radon^Nicholas^M^JR^DR^^^NPI^L ^^^NPI

 $OBR|1|ORD723222^{NIST}EHR|R-783274^{NIST}Lab\ Filler|30341-2^{Erythrocyte}\ sedimentation\ rate^{LN^500^{Erythrocyte}\ sedimentation\ rate^{99USL^2.52^{Erythrocyte}\ sedimentation\ rate}||201509251400||||L||||5742200012^{Radon^{Nicholas^{M^{PI^{N-N}PI^$

NTE|1|Patient is extremely anxious about needles used for drawing blood.\br\If patient is overly frightened, nervous, or anxious please reschedule blood draw.

NTE|2||Patient is allergic to latex

TQ1|1||||||201509251400|201509261400|R^Routine^HL70485^^^^Routine

 $OBX|1|NM|30341-2^Erythrocyte \ sedimentation \ rate^LN^815117^ESR^99USL^2.52^Erythrocyte \ sedimentation \ rate|^1^1^1|20|mm/h^millimeter \ per \ hour^UCUM^^^1.9|0 \ to \ 17|H|||C|||201509251400|||||20150926130550||||Century \ Hospital^^^^CLIA^XX^^^224D98 \ 71327|2070 \ Test \ Park^^Los$

Angeles^CA^90067^USA^B^06037|5432178916^Knowsalot^Phil^J.^IIIA^Dr.^^^NPI^L^^^NPI||||RSLT|UNSP

NTE|1||Specimen re-analyzed per request of ordering provider.

SPM|1|S-2015-66&GoodHealthC_EHR^S-9911-33&NIST Lab Filler||119297000^BLD^SCT^BldSpc^Blood^99USL^201509USEd^^Blood Specimen||||||||||||201509251400|||||||COOL^Cool^HL70493^CL^Cool^99USL^^^Cool