

HL7 v2.5 ORU^R01^ORU_R01 Message: Incorporation of Laboratory Results		
Test Case ID	LRI_0.0_1.1-NG	
Juror ID		
Juror Name		
HIT System Tested		
Inspection Date/Time		
Inspection Settlement (Pass/Fail)	<div>Pass</div> <input type="checkbox"/>	<div>Fail</div> <input type="checkbox"/>
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 Comment
<b><i>PATID1700</i></b>	<b><i>Ramoz</i></b>	12/12/1933	M		
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:	PT + INR								
Test Report Date:	09/26/2015 14:05:51								
Result Report Status	F								
Result Observation Name	Result Value	UOM	Reference Range	Abnormal Flag	Status	Date/Time of Observation	End Date/Time of Observation	Date/Time of Analysis	Tester Comment
PT	10.5				F	09/25/2015 ::			
INR	1.0				F	09/25/2015 ::			

Performing Organization Information - Display Verification		
Data Element Name	Data	Tester Comment
Organization Name	<b>Century Hospital</b>	
Organization Address		
Street address	<i>2070 Test Park</i>	
Other designation		
City		
State		
Zip code		

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

Order Information - Display Verification		
Data Element Name	Data	Tester Comment
Relevant Clinical Information		
Placer Order Number Entity ID		
Ordering Provider		
Family Name		
Surname	<b>Radon</b>	
Given Name		
Second and Further Given Names or Initials Thereof		
Suffix (e.g., JR or III)		
Prefix (e.g., DR)		

## 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
<b>PID-3</b>	<b>Patient Identifier List</b>			
PID-3.1	ID Number	S-EX-A	PATID1700	
<b>PID-3.4</b>	<b>Assigning Property</b>			
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	
<b>PID-5</b>	<b>Patient Name</b>			
<b>PID-5.1</b>	<b>Family Name</b>			
PID-5.1.1	Surname	S-EX-A	Ramoz	
PID-5.2	Given Name	S-EX-A		
PID-5.3	Second and Further Given Names or Initials Thereof	S-EX-A		
PID-5.4	Suffix (e.g., JR or III)	S-EX-A		
PID-5.7	Name Type Code	S-RC	L	
<b>PID-7</b>	<b>Date/Time of Birth</b>			
PID-7.1	Time	S-EQ	12/12/1933	
PID-8	Administrative Sex	S-TR-R	M	

Order Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>ORC-2/OBR-2</b>	<b>Placer Order Number</b>			
ORC-2.1/OBR-2.1	Entity Identifier	S-EX-A		
ORC-2.2/OBR-2.2	Namespace ID	S-EX-A		
ORC-2.3/OBR-2.3	Universal ID	S-EX-A		
ORC-2.4/OBR-2.4	Universal ID Type	S-EX-A		
<b>ORC-3/OBR-3</b>	<b>Filler Order Number</b>			
ORC-3.1/OBR-3.1	Entity Identifier	S-EX	R-100	
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		
<b>ORC-12/OBR-16</b>	<b>Ordering Provider</b>			
ORC-12.1/OBR-16.1	ID Number	S-RC		
<b>ORC-12.2/OBR-16.2</b>	<b>Family Name</b>			
ORC-12.2.1/OBR-16.2.1	Surname	S-RC	Radon	
ORC-12.3/OBR-16.3	Given Name	S-RC		
ORC-12.4/OBR-16.4	Second and Further Given Names or Initials Thereof	S-RC		
ORC-12.5/OBR-16.5	Suffix (e.g., JR or III)	S-RC		
ORC-12.6/OBR-16.6	Prefix (e.g., DR)	S-RC		
<b>ORC-12.9/OBR-16.9</b>	<b>Assigning Authority</b>			
ORC-12.9.1/OBR-16.9.1	Namespace ID	S-EX-A		
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		
ORC-12.13/OBR-16.13	Identifier Type Code	S-RC		

Performing Organization Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-23</b>	<b>Performing Organization Name</b>			
OBX-23.1	Organization Name (Note 1)	S-TR-R	Century Hospital	
<b>OBX-23.6</b>	<b>Assigning Authority (Note 2)</b>			
OBX-23.6.1	Namespace ID	S-EX-A		
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		
OBX-23.10	Organization Identifier	S-TR-R		
<b>OBX-24</b>	<b>Performing Organization Address</b>			
<b>OBX-24.1</b>	<b>Street Address</b>			
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		
OBX-24.4	State or Province	S-EX-A		
OBX-24.5	Zip or Postal Code	S-EX-A		
OBX-24.6	Country	S-TR-R		
<b>OBX-25</b>	<b>Performing Organization Medical Director</b>			
OBX-25.1	ID Number	S-RC		
<b>OBX-25.2</b>	<b>Family Name</b>			
OBX-25.2.1	Surname	S-TR-R		
OBX-25.3	Given Name	S-TR-R		
OBX-25.4	Second and Further Given Names or Initials Thereof	S-TR-R		
OBX-25.5	Suffix (e.g., JR or III)	S-TR-R		
OBX-25.6	Prefix (e.g., DR)	S-TR-R		
<b>OBX-25.9</b>	<b>Assigning Authority (Note 2)</b>			
OBX-25.9.1	Namespace ID	S-EX-A		
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		
OBX-25.13	Identifier Type Code	S-RC		
<b>Note 1</b> - 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).				
<b>Note 2</b> - 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
<b>OBR-4</b>	<b>Universal Service Identifier (Note 1)</b>			
OBR-4.1	Identifier	S-TR-R	10	
OBR-4.2	Text	S-EX-A	PT + INR	
OBR-4.3	Name of the Coding System	S-RC	99USL	
OBR-4.4	Alternate Identifier	S-TR-R		
OBR-4.5	Alternate Text	S-EX-A		
OBR-4.6	Name of Alternate Coding System	S-RC		
OBR-4.9	Original Text	S-EX		
<b>OBR-7/SPM-17.1</b>	<b>Observation Date/Time</b>			
OBR-7.1/SPM-17.1.1	Time	S-EQ		
<b>OBR-8/SPM-17.2</b>	<b>Observation End Date/Time</b>			
OBR-8.1/SPM-17.2.1	Time	S-EQ		
<b>OBR-13</b>	<b>Relevant Clinical Information</b>			
OBR-13.1	Identifier	S-TR-R		
OBR-13.2	Text	S-EX-A		
OBR-13.3	Name of the Coding System	S-RC		
OBR-13.9	Original Text	S-EX		
<b>OBR-22</b>	<b>Results Rpt/Status Chng - Date/Time</b>			
OBR-22.1	Time	S-EQ	09/26/2015 14:05:51	
OBR-25	Result Status	S-TR-R	F	
<b>Note 1</b> -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
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	11	
OBX-3.2	Text	S-EX-A	PT	
OBX-3.3	Name of the Coding System	S-RC	99USL	
OBX-3.4	Alternate Identifier	S-TR-R		
OBX-3.5	Alternate Text	S-EX-A		
OBX-3.6	Name of Alternate Coding System	S-RC		
OBX-3.9	Original Text	S-EX		
OBX-5	Observation Value	S-EQ	10.5	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R	s	
OBX-6.2	Text	S-TR-R		
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		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX		
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R		
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ		
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ		
<b>Note 1</b> - 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.				
<b>Note 2</b> - 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.				

Result Information - Incorporate Verification				
Location	Data Element Name	Store Requirement	Data	Tester Comment
<b>OBX-3</b>	<b>Observation Identifier (Note 1)</b>			
OBX-3.1	Identifier	S-TR-R	12	
OBX-3.2	Text	S-EX-A	INR	
OBX-3.3	Name of the Coding System	S-RC	99USL	
OBX-3.4	Alternate Identifier	S-TR-R		
OBX-3.5	Alternate Text	S-EX-A		
OBX-3.6	Name of Alternate Coding System	S-RC		
OBX-3.9	Original Text	S-EX		
OBX-5	Observation Value	S-EQ	1.0	
<b>OBX-6</b>	<b>Units (Note 2)</b>			
OBX-6.1	Identifier	S-TR-R	{INR}	
OBX-6.2	Text	S-TR-R		
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		
<b>OBX-7</b>	<b>Reference Range</b>	S-EX		
<b>OBX-8</b>	<b>Abnormal Flags</b>	S-TR-R		
<b>OBX-11</b>	<b>Observation Result Status</b>	S-TR-R	F	
<b>OBX-14</b>	<b>Date/Time of the Observation</b>			
OBX-14.1	Time	S-EQ		
<b>OBX-19</b>	<b>Date/Time of the Analysis</b>			
OBX-19.1	Time	S-EQ		
<b>Note 1</b> - 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.				
<b>Note 2</b> - 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.				



## 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	<p>The HIT Module being tested must be designed to incorporate/store only the exact data received in the LRI message.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record only the exact data received</b> 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.</li> </ul>
S-EX-A	Store exact by association	<p>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.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record the exact data received</b> in the LRI message OR that the HIT Module incorporates/stores <b>in the patient's laboratory result record a pointer to the exact data received</b> in the LRI message.</li> </ul> <p>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.</p>
S-EQ	Store equivalent	<p>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.</p> <ul style="list-style-type: none"> <li>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 <b>the equivalent format in the patient's laboratory result record</b>.</li> </ul>
S-TR-R	Translate and store translation (exact value can be re-created from translation any time)	<p>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.</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested incorporates/stores <b>in the patient's laboratory result record the equivalent value</b>.</li> <li>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.</li> </ul>
S-RC	Process and re-create	<p>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).</p> <ul style="list-style-type: none"> <li>Tester must verify that the HIT Module being tested processes and abstractly incorporates/stores <b>in the patient's laboratory result record the exact data received</b> in the LRI message.</li> <li>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).</li> </ul> <p>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</p>