

#### Description

Mr. Hector Ramos is a 81 year old Hispanic male who is on warfarin therapy. Mr. Ramos presents to Good Health Clinic to see Dr. Radon for a routine check up. The doctor orders a Prothrombin Time (PT + INR) test from the clinical lab at Century Hospital using the clinic's EHR system and instruct Mr. Ramos to go to the laboratory's patient service center to have the blood sample collected. The laboratory performs the requested test and the final result was 10.5 sec with a ref range of 9.5-13.8 sec and the INR calculated to be 1.0 {INR} with a normal reference range being 0.8 and 1.2 {INR}. The final result report for this lab test was generated by the LIS and transmitted to the patient's record in the Good health Clinic's EHR system.

#### Comments

This is the initial "smoke testing" to reveal simple failures of the result message severe enough to preclude further testing.

#### PreCondition

No Pre-Condition.

#### PostCondition

No Post Condition.

#### TestObjectives

- Minimally populated message.
- Demonstrate ability to support creating a lab result message with all required data elements for the test case:
- Minimally populated MSH Segment - Demonstrate the capability to support the minimally required data elements in the MSH segment.
- Minimally populated PID Segment - Demonstrate the capability to support the minimally required data elements in the PID segment.
- Minimally populated ORC Segment - Demonstrate the capability to support the minimally required data elements in the ORC segment.
- Minimally populated OBR Segment - Demonstrate the capability to support the minimally required data elements in the OBR segment.
- Minimally populated OBX Segment - Demonstrate the capability to support the minimally required data elements in the OBX segment.

#### Notes to Testers

No Notes.

## Test Case Information

## LRI\_0.0\_1.1-GU - Smoke testing using Prothrombin Time and INR results minimal message

Test Case ID

LRI\_0.0\_1.1-GU

## MSH

Location	Data Element	Data	Categorization
MSH.1	Field Separator		IG Fixed Data
MSH.2	Encoding Characters	~\&	IG Fixed Data
MSH.4	Sending Facility		
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
MSH.7	Date/Time Of Message		
MSH.7.1	Time	20150926140551	System Generated
MSH.9	Message Type		
MSH.9.1	Message Code	ORU	IG Fixed Data
MSH.9.2	Event Type	R01	IG Fixed Data
MSH.9.3	Message Structure	ORU_R01	IG Fixed Data
MSH.10	Message Control ID	LRI_0.0_1.1-GU	System Generated
MSH.11	Processing ID		
MSH.11.1	Processing ID	D	Changeable Data
MSH.12	VersionID		
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	IG Fixed Data
MSH.21	Message Profile Identifier		
MSH.21.1	Entity Identifier	LRI_GU_FRU_Profile	IG Fixed Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.195.3.1	IG Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data

## 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	PATID1700	Configurable Data
PID.3.4	Assigning Authority		
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	Configurable Data
PID.5	Patient Name		
PID.5.1	Family Name		
PID.5.1.1	Surname	Ramoz	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
PID.7	Date/Time of Birth		
PID.7.1	Time	19331212	Changeable Data
PID.8	Administrative Sex	M	Changeable Data
PID.18	Patient Account Number		
PID.18.1	ID Number	PATID1700	Configurable Data
PID.18.4	Assigning Authority		
PID.18.4.2	Universal ID	2.16.840.1.113883.3.72.5.30.2	Configurable Data
PID.18.4.3	Universal ID Type	ISO	IG Fixed Data
PID.18.5	Identifier Type Code	AN	Configurable Data

## ORC

Location	Data Element	Data	Categorization
ORC.1	Order Control	RE	Test Case Fixed Data

Location	Filler Order Number	Data Element	Data	Categorization
ORC.3.1		Entity Identifier	R-100	Changeable 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.12</b>	<b>Ordering Provider</b>			
ORC.12.2		Family Name		
ORC.12.2.1		Surname	Radon	Changeable Data

#### OBR

Location		Data Element	Data	Categorization
<b>OBR.1</b>		<b>Set ID - OBR</b>	1	IG Fixed Data
<b>OBR.3</b>		<b>Filler Order Number</b>		
OBR.3.1		Entity Identifier	R-100	Changeable 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	10	Test Case Fixed Data
OBR.4.2		Text	PT + INR	Test Case Fixed Data
OBR.4.3		Name of Coding System	99USL	Test Case Fixed Data
<b>OBR.7</b>		<b>Observation Date/Time</b>		
OBR.7.1		Time	20150925	Changeable Data
<b>OBR.16</b>		<b>Ordering Provider</b>		
OBR.16.2		Family Name		
OBR.16.2.1		Surname	Radon	Changeable Data
<b>OBR.22</b>		<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1		Time	20150926140551	Changeable Data
<b>OBR.25</b>		<b>Result Status</b>	F	Test Case Fixed Data

#### OBX

Location		Data Element	Data	Categorization
<b>OBX.1</b>		<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>		<b>Value Type</b>	NM	Test Case Fixed Data
<b>OBX.3</b>		<b>Observation Identifier</b>		
OBX.3.1		Identifier	11	Test Case Fixed Data
OBX.3.2		Text	PT	Test Case Fixed Data
OBX.3.3		Name of the Coding System	99USL	Test Case Fixed Data
<b>OBX.5</b>		<b>Observation Value</b>	10.5	Test Case Fixed Data
<b>OBX.6</b>		<b>Units</b>		
OBX.6.1		Identifier	s	Changeable Data
OBX.6.3		Name of the Coding System	UCUM	Changeable Data
<b>OBX.11</b>		<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.23</b>		<b>Performing Organization Name</b>		
OBX.23.1		Organization Name	Century Hospital	Changeable Data
<b>OBX.24</b>		<b>Performing Organization Address</b>		
OBX.24.1		Street Address		
OBX.24.1.1		Street or Mailing Address	2070 Test Park	Changeable Data
<b>OBX.29</b>		<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### OBX

Location		Data Element	Data	Categorization
<b>OBX.1</b>		<b>Set ID - OBX</b>	2	IG Fixed Data
<b>OBX.2</b>		<b>Value Type</b>	NM	Test Case Fixed Data
<b>OBX.3</b>		<b>Observation Identifier</b>		
OBX.3.1		Identifier	12	Test Case Fixed Data
OBX.3.2		Text	INR	
OBX.3.3		Name of the Coding System	99USL	Test Case Fixed Data
<b>OBX.5</b>		<b>Observation Value</b>	1.0	Test Case Fixed Data

OBX Location	Units	Data Element	Data	Categorization
OBX.6.1	Identifier	{INR}		Changeable Data
OBX.6.3	Name of the Coding System	UCUM		Changeable Data
OBX.11	Observation Result Status	F		Test Case Fixed Data
OBX.23	Performing Organization Name			
OBX.23.1	Organization Name	Century Hospital		Changeable Data
OBX.24	Performing Organization Address			
OBX.24.1	Street Address			
OBX.24.1.1	Street or Mailing Address	2070 Test Park		Changeable Data
OBX.29	Observation Type	RSLT		Test Case Fixed Data

**Patient Information**

Element	Data
Name	Ramoz
Date/Time of Birth	12/12/1933
Administrative Sex	Male

**Order Observation****Ordering Provider**

Element	Data
Name	Radon
Identifier number	

**Observation Details**

Element	Data
Observation General Information	
Placer Order Number	
Filler Order Number	R-100
Placer Group Number	
Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
Observation Details	
Universal Service Identifier	PT + INR
Observation Date/Time	09/25/2015
Observation end Date/Time	
Specimen Action Code	
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	F
Results Report/Status Change - Date/Time	09/26/2015 2:05 PM
Results Handling	
Standard	
Observation Notes	

**Timing/Quantity Information**

Element	Data
Priority	
Start Date/time	
End Date/time	

### Results Performing Laboratory

Element	Data
Laboratory Name	Century Hospital
Organization identifier	
Address	2070 Test Park
Director Name	
Director identifier	

### Lab results

Element		Data						
Test performed		PT + INR						
Test Report date		09/26/2015 14:05						
Result Observation Name	Result	UOM	Range	Abnormal Flag	Status	Date/Time of Observation	Date/Time of Analysis	Notes
PT	10.5	s			F			
INR	1.0	{INR}			F			

MSH|^~\&|^2.16.840.1.113883.3.72.5.21^ISO||20150926140551||ORU^R01^ORU\_R01|LRI\_0.0\_1.1-GU|D|2.5.1||AL|AL||||LRI\_GU\_FRU\_Profile^^2.16.840.1.113883.9.195.3.1^ISO

PID|1||PATID1700^^&2.16.840.1.113883.3.72.5.30.2&ISO^MR||RamoZ^^^^^L||19331212|M||||||PATID1700^^&2.16.840.1.113883.3.72.5.30.2&ISO^AN

ORC|RE||R-100^^2.16.840.1.113883.3.72.5.20^ISO||||||^Radon

OBR|1||R-100^^2.16.840.1.113883.3.72.5.20^ISO|10^PT + INR^99USL||20150925||||||^Radon||||20150926140551||F

OBX|1|NM|11^PT^99USL||10.5|s^^UCUM||||F||||||Century Hospital|2070 Test Park||||RSLT

OBX|2|NM|12^INR^99USL||1.0|{INR}^^UCUM||||F||||||Century Hospital|2070 Test Park||||RSLT