Description

Ms. Janet Anderson is a 26 year old white female who presented with fever of unknown origin and generalized joint pain. In order to rule out infection and autoimmune disease, Dr. Nicholas Radon ordered an erythrocyte sedimentation rate (ESR or Sed Rate) blood test to be performed. A blood specimen for the ESR test was collected from the patient and sent to the clinical lab for processing. The analysis could not be performed because the specimen arrived clotted. No result value could be obtained. A Specimen Rejection message 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.

Comments

This test case tests handling of specimen rejection.

PreCondition

No Pre-condition.

PostCondition

No Post Condition.

TestObjectives

- Determine if a valid Rejected Specimen message for an erythrocyte sedimentation rate (ESR) blood test can be created.
- Special case test aspects include ensuring that the system can populate the data elements required for a specimen rejection test message.

Notes to Testers

Note that data elements SPM-21 and SPM-24 is provided in the test data. These elements are optional for the sender and required-but maybe empty for the receiver. These elements are not subject to conformance testing for this test case (sender).

LRI_1.2_1.1-NG - Rejected SED Rate Message (No OBX segment; OBR.25 = X)	
Test Case ID	LRI_1.2_1.1-NG

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 Test Lab APP	Configurable Data
MSH.4	**Sending Facility**		
MSH.4.1	Namespace ID	NIST Lab Facility	Configurable Data
MSH.6	**Receiving Facility**		
MSH.6.1	Namespace ID	NIST EHR Facility	Configurable 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_1.2_1.1-NG	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_Common_Component	IG Fixed Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.16	IG Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data
MSH.21[2]	**Message Profile Identifier**		
MSH.21[2].1	Entity Identifier	LRI_NG_Component	IG Fixed Data
MSH.21[2].3	Universal ID	2.16.840.1.113883.9.13	IG 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	LRI_FRU_Component	IG Fixed Data
MSH.21[3].3	Universal ID	2.16.840.1.113883.9.83	IG Fixed Data
MSH.21[3].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	PATID1236	Configurable Data
PID.3.4	Assigning Authority		
PID.3.4.1	Namespace ID	NIST MPI	Changeable Data
PID.3.5	Identifier Type Code	MR	Configurable Data
PID.5	**Patient Name**		
PID.5.1	Family Name		
PID.5.1.1	Surname	Anderson	Changeable Data
PID.5.2	Given Name	Janet	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
PID.7	**Date/Time of Birth**		
PID.7.1	Time	19860930	Changeable Data

Location	Data Element	Data	Categorization
PID.8			
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.18	**Patient Account Number**		
PID.18.1	ID Number	PATID1236	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

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	RE	Test Case Fixed Data
ORC.2	**Placer Order Number**		
ORC.2.1	Entity Identifier	ORD723222-1	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Changeable Data
ORC.3	**Filler Order Number**		
ORC.3.1	Entity Identifier	R-783274-1	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
ORC.4	**Placer Group Number**		
ORC.4.1	Entity Identifier	GORD874222	Changeable Data
ORC.4.2	Namespace ID	NIST EHR	Changeable Data
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	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.2	**Placer Order Number**		
OBR.2.1	Entity Identifier	ORD723222-1	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Changeable Data
OBR.3	**Filler Order Number**		
OBR.3.1	Entity Identifier	R-783274-1	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.16	**Ordering Provider**		
OBR.16.1	ID Number	5742200012	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Radon	Changeable Data

Location	Data Element	Data	Categorization
OBR.16.2	Given Name	Nicholas	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**	X	Test Case Fixed Data

---OBX---

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	1	IG Fixed Data
OBX.2	**Value Type**	ST	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**	Test could not be performed, see Note for details	Changeable data
OBX.11	**Observation Result Status**	X	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509251400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	20150926130550	Changeable Data
OBX.23	**Performing Organization Name**		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	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.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	B	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

Location	Prefix (e.g., DR) Data Element	Dr. Data	Changeable Data Categorization

Location	Data Element	Data	Categorization
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	**Comment**	Blood in tube was clotted, resulting in a rejection of the specimen and leaving the lab unable to perform this test. Please resubmit a new specimen, if test is still desired.	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.21	**Specimen Reject Reason**		
SPM.21.1	Identifier	RC	Changeable Data
SPM.21.2	Text	Clotting	Changeable Data
SPM.21.3	Name of the Coding System	HL70490	Changeable Data
SPM.21.4	Alternate Identifier	C	Changeable Data
SPM.21.5	Alternate Text	Clotting	Changeable Data
SPM.21.6	Name of Alternate Coding System	99USL	Changeable Data
SPM.21.9	Original Text	Blood specimen clotted	Changeable Data
SPM.24	**Specimen Condition**		
SPM.24.1	Identifier	CLOT	Changeable Data
SPM.24.2	Text	Clotted	Changeable Data
SPM.24.3	Name of the Coding System	HL70493	Changeable Data
SPM.24.4	Alternate Identifier	C	Changeable Data
SPM.24.5	Alternate Text	Clotted	Changeable Data
SPM.24.6	Name of Alternate Coding System	99USL	Changeable Data
SPM.24.9	Original Text	blood specimen clotted	Changeable Data

Patient Information

Element	Data
Name	Janet Anderson
Date/Time of Birth	09/30/1986
Administrative Sex	Female
Race	White
Alt Race	

Order Observation
Ordering Provider

Element	Data
Name	Nicholas Radon
Identifier number	5742200012

Observation Details

Element	Data
Observation General Information	
Placer Order Number	ORD723222-1
Filler Order Number	R-783274-1
Placer Group Number	GORD874222
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	
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	X
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	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 Reject Reason	Clotting
Alt Specimen Reject Reason	Clotting
Reject Reason Original Text	Blood specimen clotted
Specimen Condition	Clotted
Alt Specimen Condition	Clotted
Condition Original Text	blood specimen clotted

Lab results

Element	Data
Test performed	Erythrocyte sedimentation rate
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
Erythrocyte sedimentation rate	Test could not be performed, see Note for details				X	09/25/2015 14:00	09/26/2015 13:05	Blood in tube was clotted, resulting in a rejection of the specimen and leaving the lab unable to perform this test. Please resubmit a new specimen, if test is still desired.

MSH|^~\&|NIST Test Lab APP|NIST Lab Facility||NIST EHR Facility|20150926140551||ORU^R01^ORU_R01|LRI_1.2_1.1-NG|D|2.5.1|
||AL|AL|||||LRI_Common_Component^^2.16.840.1.113883.9.16^ISO~LRI_NG_Component^^2.16.840.1.113883.9.13^ISO~LRI_FRU_Compon
ent^^2.16.840.1.113883.9.83^ISO

PID|1||PATID1236^^^NIST MPI^MR||Anderson^Janet^^^^^L||19860930|F||2106-3^White^HL70005|||||||||PATID1236^^^NIST MPI^AN

ORC|RE|ORD723222-1^NIST EHR|R-783274-1^NIST Lab Filler|GORD874222^NIST EHR|||||||5742200012^Radon^Nicholas^^^^^^NPI^L^
^^NPI

OBR|1|ORD723222-1^NIST EHR|R-783274-1^NIST Lab Filler|30341-2^Erythrocyte sedimentation rate^LN^500^Erythrocyte sedimen
tation rate^99USL^2.52^^Erythrocyte sedimentation rate|||201509251400|||||||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI
||||||20150926140551|||X

OBX|1|ST|30341-2^Erythrocyte sedimentation rate^LN^815117^ESR^99USL^2.52^^Erythrocyte sedimentation rate|^1^1^1|Test co
uld not be performed, see Note for details||||||X|||201509251400|||||20150926130550|||||Century Hospital^^^^^CLIA^XX^^^24
D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|5432178916^Knowsalot^Phil^J.^III^Dr.^^^NPI^L^^^NPI||||RSLT|UN
SP

NTE|1||Blood in tube was clotted, resulting in a rejection of the specimen and leaving the lab unable to perform this t
est. Please resubmit a new specimen, if test is still desired.

SPM|1|S-2015-66&GoodHealthC_EHR^S-9911-33&NIST Lab Filler||119297000^BLD^SCT^BldSpc^Blood^99USL^201509USEd^^Blood
Speci
men|||||||||||||201509251400||||RC^Clotting^HL70490^C^Clotting^99USL^^^Blood specimen clotted|||CLOT^Clotted^HL70493^C^C
lotted^99USL^^^blood specimen clotted