Description

Mr. William A. Jones is a 51 year old white male who presented with a complaint of diarrhea times 3 days. Dr. Nicholas Radon ordered a stool culture test to be performed. A stool specimen for the microbiology test was collected from the patient and sent to the clinical lab at Century Hospital, 2070 Test Park, Los Angeles, CA, 90067, for processing. The stool specimen was analyzed and preliminary result are sent 24 hours later, identifying E. coli O157:H7, Salmonella and Shigella flexneri.

Approximately 48 hours later the Final results, including susceptibility testing of Shigella flexneri are available. The final result report was generated by the LIS and transmitted to the patient's record in the ambulatory EHR used in Dr. Radon's office practice.

Five hours later the laboratorian realizes that the result in the susceptibility suite for Shigella Flexneri was wrong and corrects the report.

Comments

This is a variation of a follow up report to LRI_4.2_2.1-NG_FRN
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.
Special case test aspects include ensuring that the system can correctly process the data elements for linking parent/child results in accordance with the requirements specified in the implementation guide for the FRN and FRU profiles.

PreCondition

Patient information is pre-loaded in the EHR-S.
and Test case LRI_4.0_1.1-NG AND LRI_4.2_2.1-NG_FRN messages have been received and incorporated.

PostCondition

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

TestObjectives

- Determine if the system can correctly import and incorporate a valid Parent-Child message for a corrected Stool Culture/Susceptibility microbiology test report.

Notes to Testers

This is a variation of a follow up report to LRI_4.2_2.1-NG_FRN
Run LRI_4.0_1.1-NG and LRI_4.2_2.1-NG_FRN prior to this test case. This test case requires display verification only.
Concentrate on the following areas:
Check that the parent-child linkage is correctly implemented:
The susceptibility test results are linked to the correct result that spawned the respective susceptibility testing, e.g. once for "Salmonella I, group O:4" and once for "Shigella flexneri", both results of the same parent order (Stool culture).
For the susceptibility test on Shigella flexneri the Result Report Status (OBR-25) changed from F to C - ensure the related results show:
For the test identified as "Ampicillin" the result (OBX-5) changed from 16ug/mL to 32ug/mL and interpretation (OBX-8) from "I" to "R" and the Result Status (OBX-11) changed from F to C.

Test Case Information

LRI_4.2_3.1-NG_FRN - Culture-Escherichia coli, Salmonella, Shigella - Parent/Child Susceptibility - Correction	
Test Case ID	LRI_4.2_3.1-NG_FRN

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_4.2_3.1-NG_FRN	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_FRN_Component	IG Fixed Data
MSH.21[3].3	Universal ID	2.16.840.1.113883.9.84	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	PATID1234	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	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

Location	Data Element	Data	Categorization
PID.7	**Date/Time of Birth**		
PID.7.1	Time	19610627	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.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

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	RE	Test Case Fixed Data
ORC.2	**Placer Order Number**		
ORC.2.1	Entity Identifier	ORD723222-4	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Changeable Data
ORC.3	**Filler Order Number**		
ORC.3.1	Entity Identifier	R-783274-4	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
ORC.4	**Placer Group Number**		
ORC.4.1	Entity Identifier	GORD874255	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	ORD723222-4	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Changeable Data
OBR.3	**Filler Order Number**		
OBR.3.1	Entity Identifier	R-783274-4	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
OBR.4	**Universal Service Identifier**		
OBR.4.1	Identifier	625-4	Test Case Fixed Data
OBR.4.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data
OBR.4.4	Alternate Identifier	3456543	Changeable Data
OBR.4.5	Alternate Text	CULTURE STOOL	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	Stool Culture	Changeable Data
OBR.7	**Observation Date/Time**		
OBR.7.1	Time	201509231400	Changeable Data
OBR.16	**Ordering Provider**		
OBR.16.1	ID Number	5742200012	Changeable Data

Location	Data Element	Data	Categorization
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	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**	F	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.28.9	Assigning Authority		
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.47	**Filler Supplemental Service Information**		
OBR.47.1	Identifier	MIC	Test Case Fixed Data
OBR.47.2	Text	Observation of type microbiology	Test Case Fixed Data
OBR.47.3	Name of the Coding System	HL70411	IG Fixed Data
OBR.47.7	Coding System Version	2.5.1	IG Fixed Data
OBR.49	**Results Handling**		
OBR.49.1	Identifier	CC	Test Case Fixed Data
OBR.49.2	Text	Copies Requested	Test Case Fixed Data
OBR.49.3	Name of the Coding System	HL70507	IG Fixed 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	625-4	Test Case Fixed Data
OBX.3.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.3.9	Original Text	Stool Culture	Test Case Fixed Data
OBX.4	**Observation Sub-ID**		
OBX.4.2	Group	1	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-1	Changeable Data
OBX.5	**Observation Value**		
OBX.5.1	Identifier	103429008	Changeable Data
OBX.5.2	Text	Enterohemorrhagic Escherichia coli, serotype O157:H7	Changeable Data
OBX.5.3	Name of the Coding System	SCT	Changeable Data
OBX.5.7	Coding System Version	201509USEd	Changeable Data
OBX.5.9	Original Text	Shiga toxin producing E. coli O157:H7 isolated	Changeable Data
OBX.8	**Abnormal Flags**	A	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		

Location	Data Element	Data	Categorization
OBX.19.1	Time	201509251930	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.24.7	Address Type	B	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.25.9	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

NTE

Location	Data Element	Data	Categorization
NTE.1	**Set ID - NTE**	1	IG Fixed Data
NTE.3	**Comment**	Susceptibility testing for E.coli is not performed, because antibiotics should not be used to treat this infection. There is no evidence that treatment with antibiotics is helpful, and taking antibiotics may increase the risk of hemolytic-uremic syndrome (HUS). Antidiarrheal agents like Imodium may also increase that risk. Non-specific supportive therapy, including hydration, is important.	Changeable Data

OBX

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	2	IG Fixed Data
OBX.2	**Value Type**	CWE	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	625-4	Test Case Fixed Data
OBX.3.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.3.9	Original Text	Stool Culture	Test Case Fixed Data
OBX.4	**Observation Sub-ID**		
OBX.4.2	Group	2	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-2	Changeable Data
OBX.5	**Observation Value**		
OBX.5.1	Identifier	398567006	Changeable Data
OBX.5.2	Text	Salmonella I, group O:4	Changeable Data

Location	Data Element	Data	Categorization
OBX.5.3	Name of the Coding System	SCT	Changeable Data
OBX.5.7	Coding System Version	201509USEd	Changeable Data
OBX.5.9	Original Text	Salmonella I, group O:4 isolated	Changeable Data
OBX.8	**Abnormal Flags**	A	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509251930	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.24.7	Address Type	B	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.25.9	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

NTE

Location	Data Element	Data	Categorization
NTE.1	**Set ID - NTE**	1	IG Fixed Data
NTE.3	**Comment**	Salmonella gastrointestinal infections usually resolve in 5-7 days and most do not require treatment other than oral fluids. Persons with severe diarrhea may require rehydration with intravenous fluids. Antibiotic therapy can prolong the duration of excretion of non-typhoidal Salmonella and is recommended only for patients with severe illness (e.g., those with severe diarrhea, high fever, bloodstream infection, or who need hospitalization) or those at risk of severe disease or complications, including young infants, older adults (over 65 years old) and immunocompromised persons. Antibiotic resistance is increasing among some Salmonella bacteria; therefore, susceptibility testing can help guide appropriate therapy. Choices for antibiotic therapy for severe infections include fluoroquinolones, third-generation cephalosporins, and ampicillin (for susceptible infections).	Changeable Data

OBX

OBX

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	3	IG Fixed Data
OBX.2	**Value Type**	CWE	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	625-4	Test Case Fixed Data
OBX.3.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.3.9	Original Text	Stool Culture	Test Case Fixed Data
OBX.4	**Observation Sub-ID**		
OBX.4.2	Group	3	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-3	Changeable Data
OBX.5	**Observation Value**		
OBX.5.1	Identifier	85729005	Changeable Data
OBX.5.2	Text	Shigella flexneri	Changeable Data
OBX.5.3	Name of the Coding System	SCT	Changeable Data
OBX.5.7	Coding System Version	201509USEd	Changeable Data
OBX.5.9	Original Text	Shigella flexneri isolated	Changeable Data
OBX.8	**Abnormal Flags**	A	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509251930	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.24.7	Address Type	B	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.25.9	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

NTE

Location	Data Element	Data	Categorization
NTE.1	**Set ID - NTE**	1	IG Fixed Data
		Antibiotic treatment is recommended for patients with severe disease, bloody	

Location	Data Element	Data	Categorization
NTE.3	**Comment**	diarrhea, or compromised immune systems. Resistance to traditional first-line drugs like ampicillin and trimethoprim-sulfamethoxazole is common, and resistance to some other antibiotics is increasing. With this in mind, antibiotic susceptibility testing can help guide appropriate therapy. When an ampicillin- or trimethroprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.	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	119339001	Changeable Data
SPM.4.2	Text	Stool specimen	Changeable Data
SPM.4.3	Name of the Coding System	SCT	Changeable Data
SPM.4.7	Coding System Version	201509USEd	Changeable Data
SPM.4.9	Original Text	Stool	Changeable Data
SPM.17	**Specimen Collection Date/Time**		
SPM.17.1	Range Start Date/Time		
SPM.17.1.1	Time	201509231400	Changeable Data

ORC

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	RE	Test Case Fixed Data
ORC.3	**Filler Order Number**		
ORC.3.1	Entity Identifier	R-783274-4	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
ORC.4	**Placer Group Number**		
ORC.4.1	Entity Identifier	GORD874255	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
ORC.31	**Parent Universal Service Identifier**		
ORC.31.1	Identifier	625-4	Test Case Fixed Data
ORC.31.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
ORC.31.3	Name of the Coding System	LN	Test Case Fixed Data
ORC.31.4	Alternate Identifier	3456543	Changeable Data
ORC.31.5	Alternate Text	CULTURE STOOL	Changeable Data
ORC.31.6	Name of Alternate Coding System	99USL	Changeable Data
ORC.31.7	Coding System Version	2.52	

Location	Data Element	Data	Categorization
ORC.31.9	Original Text	Stool Culture	Changeable Data

OBR

Location	Data Element	Data	Categorization
OBR.1	**Set ID - OBR**	2	IG Fixed Data
OBR.3	**Filler Order Number**		
OBR.3.1	Entity Identifier	R-783274-4	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
OBR.4	**Universal Service Identifier**		
OBR.4.1	Identifier	50545-3	Test Case Fixed Data
OBR.4.2	Text	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data
OBR.4.7	Coding System Version	2.52	Changeable Data
OBR.4.9	Original Text	Bacteria susceptibility	Changeable Data
OBR.7	**Observation Date/Time**		
OBR.7.1	Time	201509231400	Changeable Data
OBR.11	**Specimen Action Code**	G	Test Case Fixed 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	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	20150927112054	Changeable Data
OBR.25	**Result Status**	F	Test Case Fixed Data
OBR.26	**Parent Result**		
OBR.26.1	Parent Observation Identifier		
OBR.26.1.1	Identifier	625-4	Test Case Fixed Data
OBR.26.1.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBR.26.1.3	Name of the Coding System	LN	Test Case Fixed Data
OBR.26.1.7	Coding System Version	2.52	Changeable Data
OBR.26.1.9	Original Text	Stool Culture	Changeable Data
OBR.26.2	Parent Observation Sub-Identifier		
OBR.26.2.2	Group	2	Test Case Fixed Data
OBR.26.2.3	Sequence	1	Test Case Fixed Data
OBR.26.2.4	Identifier	Islt-2	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.28.9	Assigning Authority		
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.29	**Parent**		
OBR.29.1	Placer Assigned Identifier		
OBR.29.1.1	Entity Identifier	ORD723222-4	Changeable Data
OBR.29.1.2	Namespace ID	NIST EHR	Changeable Data
OBR.29.2	Filler Assigned Identifier		
OBR.29.2.1	Entity Identifier	R-783274-4	Changeable Data
OBR.29.2.2	Namespace ID	NIST Lab Filler	Changeable Data

Location	Data Element	Data	Categorization
OBR.47	**Filler Supplemental Service Information**		
OBR.47.1	Identifier	MIC	Test Case Fixed Data
OBR.47.2	Text	Observation of type microbiology	Test Case Fixed Data
OBR.47.3	Name of the Coding System	HL70411	IG Fixed Data
OBR.47.7	Coding System Version	2.5.1	IG Fixed Data
OBR.49	**Results Handling**		
OBR.49.1	Identifier	CC	Test Case Fixed Data
OBR.49.2	Text	Copies Requested	Test Case Fixed Data
OBR.49.3	Name of the Coding System	HL70507	IG Fixed Data
OBR.50	**Parent Universal Service Identifier**		
OBR.50.1	Identifier	625-4	Test Case Fixed Data
OBR.50.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBR.50.3	Name of the Coding System	LN	Test Case Fixed Data
OBR.50.4	Alternate Identifier	3456543	Changeable Data
OBR.50.5	Alternate Text	CULTURE STOOL	Changeable Data
OBR.50.6	Name of Alternate Coding System	99USL	Changeable Data
OBR.50.7	Coding System Version	2.52	Changeable Data
OBR.50.9	Original Text	Stool Culture	Changeable Data

OBX

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	1	IG Fixed Data
OBX.2	**Value Type**	SN	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	28-1	Test Case Fixed Data
OBX.3.2	Text	Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	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	Islt-2	Test Case Fixed Data
OBX.5	**Observation Value**		
OBX.5.1	Comparator	<	Test Case Fixed Data
OBX.5.2	Num1	0.06	Test Case Fixed Data
OBX.6	**Units**		
OBX.6.1	Identifier	ug/mL	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.8	**Abnormal Flags**	S	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509261100	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

Location	Data Element	Data	Categorization
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.7	Address Type	B	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.25.9	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**	SUR	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	2	IG Fixed Data
OBX.2	**Value Type**	SN	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	267-5	Test Case Fixed Data
OBX.3.2	Text	Gentamicin [Susceptibility] by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	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	Islt-2	Test Case Fixed Data
OBX.5	**Observation Value**		
OBX.5.2	Num1	0.05	Test Case Fixed Data
OBX.6	**Units**		
OBX.6.1	Identifier	ug/mL	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.8	**Abnormal Flags**	S	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509261100	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.24.7	Address Type	B	Changeable Data

Location	Data Element	Data	Categorization
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.25.9	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**	SUR	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	3	IG Fixed Data
OBX.2	**Value Type**	SN	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	185-9	Test Case Fixed Data
OBX.3.2	Text	Ciprofloxacin [Susceptibility] by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	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	Islt-2	Test Case Fixed Data
OBX.5	**Observation Value**		
OBX.5.2	Num1	0.05	Test Case Fixed Data
OBX.6	**Units**		
OBX.6.1	Identifier	ug/mL	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.8	**Abnormal Flags**	S	Test Case Fixed Data
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509261100	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.24.7	Address Type	B	Changeable Data
OBX.25	**Performing Organization Medical Director**		
OBX.25.1	ID Number	5432178916	Changeable Data
OBX.25.2	Family Name		

Location	Data Element	Data	Categorization
OBX.25.2	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.25.9	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**	SUR	Test Case Fixed Data

ORC

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	RE	Test Case Fixed Data
ORC.3	**Filler Order Number**		
ORC.3.1	Entity Identifier	R-783274-4	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
ORC.4	**Placer Group Number**		
ORC.4.1	Entity Identifier	GORD874255	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
ORC.31	**Parent Universal Service Identifier**		
ORC.31.1	Identifier	625-4	Test Case Fixed Data
ORC.31.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
ORC.31.3	Name of the Coding System	LN	Test Case Fixed Data
ORC.31.4	Alternate Identifier	3456543	Changeable Data
ORC.31.5	Alternate Text	CULTURE STOOL	Changeable Data
ORC.31.6	Name of Alternate Coding System	99USL	Changeable Data
ORC.31.7	Coding System Version	2.52	
ORC.31.9	Original Text	Stool Culture	Changeable Data

OBR

Location	Data Element	Data	Categorization
OBR.1	**Set ID - OBR**	3	IG Fixed Data
OBR.3	**Filler Order Number**		
OBR.3.1	Entity Identifier	R-783274-4	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
OBR.4	**Universal Service Identifier**		
OBR.4.1	Identifier	50545-3	Test Case Fixed Data
OBR.4.2	Text	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data
OBR.4.7	Coding System Version	2.52	Changeable Data
OBR.4.9	Original Text	Bacteria susceptibility	Changeable Data
OBR.7	**Observation Date/Time**		
OBR.7.1	Time	201509231400	Changeable Data
OBR.11	**Specimen Action Code**	G	Test Case Fixed Data
OBR.16	**Ordering Provider**		
OBR.16.1	ID Number	5742200012	Changeable Data

Location	Data Element	Data	Categorization
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	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	20150927163551	Changeable Data
OBR.25	**Result Status**	C	Test Case Fixed Data
OBR.26	**Parent Result**		
OBR.26.1	Parent Observation Identifier		
OBR.26.1.1	Identifier	625-4	Test Case Fixed Data
OBR.26.1.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBR.26.1.3	Name of the Coding System	LN	Test Case Fixed Data
OBR.26.1.7	Coding System Version	2.52	Changeable Data
OBR.26.1.9	Original Text	Stool Culture	Changeable Data
OBR.26.2	Parent Observation Sub-Identifier		
OBR.26.2.2	Group	3	Test Case Fixed Data
OBR.26.2.3	Sequence	1	Test Case Fixed Data
OBR.26.2.4	Identifier	Islt-3	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.28.9	Assigning Authority		
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.29	**Parent**		
OBR.29.1	Placer Assigned Identifier		
OBR.29.1.1	Entity Identifier	ORD723222-4	Changeable Data
OBR.29.1.2	Namespace ID	NIST EHR	Changeable Data
OBR.29.2	Filler Assigned Identifier		
OBR.29.2.1	Entity Identifier	R-783274-4	Changeable Data
OBR.29.2.2	Namespace ID	NIST Lab Filler	Changeable Data
OBR.47	**Filler Supplemental Service Information**		
OBR.47.1	Identifier	MIC	Test Case Fixed Data
OBR.47.2	Text	Observation of type microbiology	Test Case Fixed Data
OBR.47.3	Name of the Coding System	HL70411	IG Fixed Data
OBR.47.7	Coding System Version	2.5.1	IG Fixed Data
OBR.49	**Results Handling**		
OBR.49.1	Identifier	CC	Test Case Fixed Data
OBR.49.2	Text	Copies Requested	Test Case Fixed Data
OBR.49.3	Name of the Coding System	HL70507	IG Fixed Data
OBR.50	**Parent Universal Service Identifier**		
OBR.50.1	Identifier	625-4	Test Case Fixed Data
OBR.50.2	Text	Bacteria identified in Stool by Culture	Test Case Fixed Data
OBR.50.3	Name of the Coding System	LN	Test Case Fixed Data
OBR.50.4	Alternate Identifier	3456543	Changeable Data
OBR.50.5	Alternate Text	CULTURE STOOL	Changeable Data
OBR.50.6	Name of Alternate Coding System	99USL	Changeable Data
OBR.50.7	Coding System Version	2.52	Changeable Data
OBR.50.9	Original Text	Stool Culture	Changeable Data

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	1	IG Fixed Data
OBX.2	**Value Type**	SN	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	28-1	Test Case Fixed Data
OBX.3.2	Text	Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.7	Coding System Version	2.52	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	Islt-3	Test Case Fixed Data
OBX.5	**Observation Value**		
OBX.5.1	Comparator	<	Test Case Fixed Data
OBX.5.2	Num1	32	Test Case Fixed Data
OBX.6	**Units**		
OBX.6.1	Identifier	ug/mL	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.8	**Abnormal Flags**	R	Test Case Fixed Data
OBX.11	**Observation Result Status**	C	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	201509231400	Changeable Data
OBX.19	**Date/Time of the Analysis**		
OBX.19.1	Time	201509271120	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.24.7	Address Type	B	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.25.9	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**	SUR	Test Case Fixed Data

NTE

Location	Data Element	Data	Categorization
NTE.1	**Set ID - NTE**	1	IG Fixed Data

Location	Data Element	Data	Categorization
NTE.3	Comment	During the repeat test, the amoxicillin result indicated resistance, rather than falling into the indeterminate realm.	Changeable Data

Patient Information

Element	Data
Name	William A Jones
Date/Time of Birth	06/27/1961
Administrative Sex	Male
Race	White
Alt Race	

Order Observation[*]

Order Observation

Ordering Provider

Element	Data
Name	Nicholas Radon
Identifier number	5742200012

Observation Details

Element	Data
Observation General Information	
Placer Order Number	ORD723222-4
Filler Order Number	R-783274-4
Placer Group Number	GORD874255
Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
Observation Details	
Universal Service Identifier	Bacteria identified in Stool by Culture
Observation Date/Time	09/23/2015 2:00 PM
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 Copy To	
Name	Pafford
Identifier	10092000194
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
Director Name	Phil J. Knowsalot
Director identifier	5432178916

Specimen Information

Element	Data
Specimen Type	Stool specimen
Alt Specimen Type	
Specimen Original Text	Stool
Start date/time	201509231400

Lab results

Element				Data				
Test performed				Stool Culture				
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

Stool Culture	Shiga toxin producing E. coli O157:H7 isolated			A	F	09/23/2015 14:00	09/25/2015 19:30	Susceptibility testing for E.coli is not performed, because antibiotics should not be used to treat this infection. There is no evidence that treatment with antibiotics is helpful, and taking antibiotics may increase the risk of hemolytic-uremic syndrome (HUS). Antidiarrheal agents like Imodium may also increase that risk. Non-specific supportive therapy, including hydration, is important.
								Salmonella gastrointestinal infections usually resolve in 5-7 days and most do not require treatment other than oral fluids. Persons with severe diarrhea may require rehydration with intravenous fluids. Antibiotic therapy can prolong the duration of excretion of non-typhoidal Salmonella and is recommended only for

Stool Culture	Salmonella I, group O:4 isolated			A	F	09/23/2015 14:00	09/25/2015 19:30	patients with severe illness (e.g., those with severe diarrhea, high fever, bloodstream infection, or who need hospitalization) or those at risk of severe disease or complications, including young infants, older adults (over 65 years old) and immunocompromised persons. Antibiotic resistance is increasing among some Salmonella bacteria; therefore, susceptibility testing can help guide appropriate therapy. Choices for antibiotic therapy for severe infections include fluoroquinolones, third-generation cephalosporins, and ampicillin (for susceptible infections).

Stool Culture	Shigella flexneri isolated			A	F	09/23/2015 14:00	09/25/2015 19:30	Antibiotic treatment is recommended for patients with severe disease, bloody diarrhea, or compromised immune systems. Resistance to traditional first-line drugs like ampicillin and trimethoprim-sulfamethoxazole is common, and resistance to some other antibiotics is increasing. With this in mind, antibiotic susceptibility testing can help guide appropriate therapy. When an ampicillin- or trimethroprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.

Order Observation

Ordering Provider

Element	Data
Name	Nicholas Radon
Identifier number	5742200012

Observation Details

Element	Data
Observation General Information	
Placer Order Number	
Filler Order Number	R-783274-4
Placer Group Number	GORD874255

Parent Universal Service Identifier	
Identifier	625-4
Text	Bacteria identified in Stool by Culture
Alt Identifier	3456543
Alt Text	CULTURE STOOL
Original Text	Stool Culture
Observation Details	
Universal Service Identifier	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)
Observation Date/Time	09/23/2015 2:00 PM
Observation end Date/Time	
Specimen Action Code	G
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	F
Results Report/Status Change - Date/Time	09/27/2015 11:20 AM
Results Copy To	
Name	Pafford
Identifier	10092000194
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
Director Name	Phil J. Knowsalot
Director identifier	5432178916

Lab results

Element	Data
Test performed	Bacteria susceptibility
Test Report date	09/27/2015 11:20

Result Observation Name	Result	UOM	Range	Abnormal Flag	Status	Date/Time of Observation	Date/Time of Analysis	Notes

Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	< 0.06	ug/mL		S	F	09/23/2015 14:00	09/26/2015 11:00	
Gentamicin [Susceptibility] by Minimum inhibitory concentration (MIC)	0.05	ug/mL		S	F	09/23/2015 14:00	09/26/2015 11:00	
Ciprofloxacin [Susceptibility] by Minimum inhibitory concentration (MIC)	0.05	ug/mL		S	F	09/23/2015 14:00	09/26/2015 11:00	

Order Observation

Ordering Provider

Element	Data
Name	Nicholas Radon
Identifier number	5742200012

Observation Details

Element	Data
Observation General Information	
Placer Order Number	
Filler Order Number	R-783274-4
Placer Group Number	GORD874255
Parent Universal Service Identifier	
Identifier	625-4
Text	Bacteria identified in Stool by Culture
Alt Identifier	3456543
Alt Text	CULTURE STOOL
Original Text	Stool Culture
Observation Details	
Universal Service Identifier	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)
Observation Date/Time	09/23/2015 2:00 PM
Observation end Date/Time	
Specimen Action Code	G
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	C
Results Report/Status Change - Date/Time	09/27/2015 4:35 PM
Results Copy To	
Name	Pafford

Identifier	10092000194
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
Director Name	Phil J. Knowsalot
Director identifier	5432178916

Lab results

Element	Data
Test performed	Bacteria susceptibility
Test Report date	09/27/2015 16:35

Result Observation Name	Result	UOM	Range	Abnormal Flag	Status	Date/Time of Observation	Date/Time of Analysis	Notes
Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	< 32	ug/mL		R	C	09/23/2015 14:00	09/27/2015 11:20	During the repeat test the amoxicillin result indicated resistance, rather than falling into the indeterminate realm.

HL7 v2.5 ORU^R01^ORU_R01 Message: Incorporation of Laboratory Results	
Test Case ID	LRI_4.2_3.1-NG_FRN
Juror ID	
Juror Name	
HIT System Tested	
Inspection Date/Time	
Inspection Settlement (Pass/Fail)	**Pass** ☐ **Fail** ☐
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**
PATID1234	***William A Jones***	06/27/1961	M	**White**	
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:	**Stool Culture**								
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**
Stool Culture	**Shiga toxin producing E. coli O157:H7 isolated**			A	F	09/23/2015 14:00:		09/25/2015 19:30:	
Note	Susceptibility testing for E.coli is not performed, because antibiotics should not be used to treat this infection. There is no evidence that treatment with antibiotics is helpful, and taking antibiotics may increase the risk of hemolytic-uremic syndrome (HUS). Antidiarrheal agents like Imodium may also increase that risk. Non-specific supportive therapy, including hydration, is important.								

Lab Results - Display Verification									
Test Performed:	**Stool Culture**								
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**
Stool Culture	**Salmonella I, group O:4 isolated**			A	F	09/23/2015 14:00:		09/25/2015 19:30:	
Note	Salmonella gastrointestinal infections usually resolve in 5-7 days and most do not require treatment other than oral fluids. Persons with severe diarrhea may require rehydration with intravenous fluids. Antibiotic therapy can prolong the duration of excretion of non-typhoidal Salmonella and is recommended only for patients with severe illness (e.g., those with severe diarrhea, high fever, bloodstream infection, or who need hospitalization) or those at risk of severe disease or complications, including young infants, older adults (over 65 years old) and immunocompromised persons. Antibiotic resistance is increasing among some Salmonella bacteria; therefore, susceptibility testing can help guide appropriate therapy. Choices for antibiotic therapy for severe infections include fluoroquinolones, third-generation cephalosporins, and ampicillin (for susceptible infections).								
Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	***< 0.06***			S	F	09/23/2015 14:00:		09/26/2015 11:00:	
Gentamicin [Susceptibility] by Minimum inhibitory concentration (MIC)	***0.05***			S	F	09/23/2015 14:00:		09/26/2015 11:00:	
Ciprofloxacin [Susceptibility] by Minimum inhibitory concentration (MIC)	***0.05***			S	F	09/23/2015 14:00:		09/26/2015 11:00:	

Lab Results - Display Verification									
Test Performed:	**Stool Culture**								
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**
Stool Culture	**Shigella flexneri isolated**			A	F	09/23/2015 14:00:		09/25/2015 19:30:	
Note	Antibiotic treatment is recommended for patients with severe disease, bloody diarrhea, or compromised immune systems. Resistance to traditional first-line drugs like ampicillin and trimethoprim-sulfamethoxazole is common, and resistance to some other antibiotics is increasing. With this in mind, antibiotic susceptibility testing can help guide appropriate therapy. When an ampicillin- or trimethroprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.								
Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	*< 32*			R	C			09/27/2015 11:20:	

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

Performing Organization Medical Director Information - Display Verification		
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)		
Prefix (e.g., DR)		

Specimen Information - Display Verification		
Data Element Name	**Data**	**Tester Comment**
Specimen Type(Specimen Source)	**Stool**	
Specimen Collection Date/Time - Start	09/23/2015 14:00:	
Specimen Collection Date/Time - End		
Specimen Reject Reason		
Specimen Condition		

Order Information - Display Verification		
Data Element Name	**Data**	**Tester Comment**
Relevant Clinical Information		
Placer Order Number Entity ID	**ORD723222-4**	
Ordering Provider		
Family Name		
Surname	**Radon**	
Given Name	**Nicholas**	
Second and Further Given Names or Initials Thereof		
Suffix (e.g., JR or III)		
Prefix (e.g., DR)		
Results Copies To		
Family Name		
Surname	Hamlin	
Given Name	Pafford	
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**
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	06/27/1961	
PID-8	Administrative Sex	S-TR-R	M	
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	

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	ORD723222-4	
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-783274-4	
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	
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		
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	

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		
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		
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) Parent Information - Incorporate Verification				
Location	**Data Element Name**	**Store Requirement**	**Data**	**Tester Comment**
OBR-4	**Universal Service Identifier (Note 1)**			
OBR-4.1	Identifier	S-TR-R	625-4	
OBR-4.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBR-4.3	Name of the Coding System	S-RC	LN	
OBR-4.4	Alternate Identifier	S-TR-R	3456543	
OBR-4.5	Alternate Text	S-EX-A	CULTURE STOOL	
OBR-4.6	Name of Alternate Coding System	S-RC	99USL	
OBR-4.9	Original Text	S-EX	Stool Culture	
OBR-7/SPM-17.1	**Observation Date/Time**			
OBR-7.1/SPM-17.1.1	Time	S-EQ	09/23/2015 14:00:	
OBR-8/SPM-17.2	**Observation End Date/Time**			
OBR-8.1/SPM-17.2.1	Time	S-EQ		
OBR-13	**Relevant Clinical Information**			
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		
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	F	
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		
OBR-28.5	Suffix (e.g., JR or III)	S-EX-A		
OBR-28.6	Prefix (e.g., DR)	S-EX-A		
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 Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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	625-4	
OBX-3.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBX-3.3	Name of the Coding System	S-RC	LN	
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	Stool Culture	
OBX-5	**Observation Value**			
OBX-5.1	Identifier	S-TR-R	103429008	
OBX-5.2	Text	S-EX-A	Enterohemorrhagic Escherichia coli, serotype O157:H7	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R		
OBX-5.5	Alternate Text	S-EX-A		
OBX-5.6	Name of Alternate Coding System	S-RC		
OBX-5.9	Original Text	S-EX	Shiga toxin producing E. coli O157:H7 isolated	
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
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		
OBX-8	**Abnormal Flags**	S-TR-R	A	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/25/2015 19:30:	

Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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	Susceptibility testing for E.coli is not performed, because antibiotics should not be used to treat this infection. There is no evidence that treatment with antibiotics is helpful, and taking antibiotics may increase the risk of hemolytic-uremic syndrome (HUS). Antidiarrheal agents like Imodium may also increase that risk. Non-specific supportive therapy, including hydration, is important.	

PARENT - 2

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	625-4	
OBX-3.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBX-3.3	Name of the Coding System	S-RC	LN	
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	Stool Culture	
OBX-5	**Observation Value**			
OBX-5.1	Identifier	S-TR-R	398567006	
OBX-5.2	Text	S-EX-A	Salmonella I, group O:4	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R		
OBX-5.5	Alternate Text	S-EX-A		
OBX-5.6	Name of Alternate Coding System	S-RC		
OBX-5.9	Original Text	S-EX	Salmonella I, group O:4 isolated	
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
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		
OBX-8	**Abnormal Flags**	S-TR-R	A	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/25/2015 19:30:	

Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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	Salmonella gastrointestinal infections usually resolve in 5-7 days and most do not require treatment other than oral fluids. Persons with severe diarrhea may require rehydration with intravenous fluids. Antibiotic therapy can prolong the duration of excretion of non-typhoidal Salmonella and is recommended only for patients with severe illness (e.g., those with severe diarrhea, high fever, bloodstream infection, or who need hospitalization) or those at risk of severe disease or complications, including young infants, older adults (over 65 years old) and immunocompromised persons. Antibiotic resistance is increasing among some Salmonella bacteria; therefore, susceptibility testing can help guide appropriate therapy. Choices for antibiotic therapy for severe infections include fluoroquinolones, third-generation cephalosporins, and ampicillin (for susceptible infections).	

Order Information (cont'd) Child Information - Incorporate Verification				
Location	**Data Element Name**	**Store Requirement**	**Data**	**Tester Comment**
OBR-4	**Universal Service Identifier (Note 1)**			
OBR-4.1	Identifier	S-TR-R	50545-3	
OBR-4.2	Text	S-EX-A	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)	
OBR-4.3	Name of the Coding System	S-RC	LN	
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	Bacteria susceptibility	
OBR-26	**Parent Result**			
OBR-26.1	**Parent Observation Identifier (Note 2)**			
OBR-26.1.1	Identifier	S-EX-A	625-4	
OBR-26.1.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBR-26.1.3	Name of the Coding System	S-EX-A	LN	

Order Information (cont'd) Child Information - Incorporate Verification				
Location	**Data Element Name**	**Store Requirement**	**Data**	**Tester Comment**
OBR-26.1.4	Alternate Identifier	S-EX-A		
OBR-26.1.5	Alternate Text	S-EX-A		
OBR-26.1.6	Name of Alternate Coding System	S-EX-A		
OBR-26.2	**Parent Observation Sub-Identifier**			
OBR-26.2.2	Group	S-EX-A	2	
OBR-26.2.3	Sequence	S-EX-A	1	
OBR-26.2.4	Identifier	S-EX-A	Islt-2	
OBR-29	**Parent (Note 2)**			
OBR-29.1	**Placer Assigned Identifier**			
OBR-29.1.1	Entity Identifier	S-EX-A	ORD723222-4	
OBR-29.1.2	Namespace ID	S-EX-A	NIST EHR	
OBR-29.1.3	Universal ID	S-EX-A		
OBR-29.1.4	Universal ID Type	S-EX-A		
OBR-29.2	**Filler Assigned Identifier**			
OBR-29.2.1	Entity Identifier	S-EX-A	R-783274-4	
OBR-29.2.2	Namespace ID	S-EX-A	NIST Lab Filler	
OBR-29.2.3	Universal ID	S-EX-A		
OBR-29.2.4	Universal ID Type	S-EX-A		
ORC-31/OBR-50	**Parent Universal Service Identifier**			
ORC-31.1/OBR-50.1	Identifier	S-EX-A	625-4	
ORC-31.2/OBR-50.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
ORC-31.3/OBR-50.3	Name of Coding System	S-EX-A	LN	
ORC-31.4/OBR-50.4	Alternate Identifier	S-EX-A	3456543	
ORC-31.5/OBR-50.5	Alternate Text	S-EX-A	CULTURE STOOL	
ORC-31.6/OBR-50.6	Name of Alternate Coding System	S-EX-A	99USL	
ORC-31.9/OBR-50.9	Original Text	S-EX-A	2.52	
Note 1 -Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
Note 2 - The HIT Module must display the relationship to the parent, but is not required to store the actual received data when the association to a specific result is achieved, otherwise use S-EX to save the information.				

CHILD - 1

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	28-1	
OBX-3.2	Text	S-EX-A	Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	
OBX-3.3	Name of the Coding System	S-RC	LN	
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**			
OBX-5.1	Comparator	S-EX	<	
OBX-5.2	Num1	S-EQ	0.06	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R	ug/mL	
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		
OBX-7	**Reference Range**	S-EX		
OBX-8	**Abnormal Flags**	S-TR-R	S	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/26/2015 11:00:	
Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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.				

CHILD - 2

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	267-5	
OBX-3.2	Text	S-EX-A	Gentamicin [Susceptibility] by Minimum inhibitory concentration (MIC)	
OBX-3.3	Name of the Coding System	S-RC	LN	
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**			
OBX-5.1	Comparator	S-EX		
OBX-5.2	Num1	S-EQ	0.05	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R	ug/mL	
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		
OBX-7	**Reference Range**	S-EX		
OBX-8	**Abnormal Flags**	S-TR-R	S	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/26/2015 11:00:	
Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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.				

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	185-9	
OBX-3.2	Text	S-EX-A	Ciprofloxacin [Susceptibility] by Minimum inhibitory concentration (MIC)	
OBX-3.3	Name of the Coding System	S-RC	LN	
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**			
OBX-5.1	Comparator	S-EX		
OBX-5.2	Num1	S-EQ	0.05	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R	ug/mL	
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		
OBX-7	**Reference Range**	S-EX		
OBX-8	**Abnormal Flags**	S-TR-R	S	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/26/2015 11:00:	
Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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.				

PARENT - 3

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	625-4	
OBX-3.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBX-3.3	Name of the Coding System	S-RC	LN	
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	Stool Culture	
OBX-5	**Observation Value**			
OBX-5.1	Identifier	S-TR-R	85729005	
OBX-5.2	Text	S-EX-A	Shigella flexneri	
OBX-5.3	Name of the Coding System	S-RC	SCT	
OBX-5.4	Alternate Identifier	S-TR-R		
OBX-5.5	Alternate Text	S-EX-A		
OBX-5.6	Name of Alternate Coding System	S-RC		
OBX-5.9	Original Text	S-EX	Shigella flexneri isolated	
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R		
OBX-6.2	Text	S-TR-R		
OBX-6.3	Name of the Coding System	S-RC		
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		
OBX-8	**Abnormal Flags**	S-TR-R	A	
OBX-11	**Observation Result Status**	S-TR-R	F	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/25/2015 19:30:	

Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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	Antibiotic treatment is recommended for patients with severe disease, bloody diarrhea, or compromised immune systems. Resistance to traditional first-line drugs like ampicillin and trimethoprim-sulfamethoxazole is common, and resistance to some other antibiotics is increasing. With this in mind, antibiotic susceptibility testing can help guide appropriate therapy. When an ampicillin- or trimethroprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.	

Order Information (cont'd) Child Information - Incorporate Verification				
Location	**Data Element Name**	**Store Requirement**	**Data**	**Tester Comment**
OBR-4	**Universal Service Identifier (Note 1)**			
OBR-4.1	Identifier	S-TR-R	50545-3	
OBR-4.2	Text	S-EX-A	Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)	
OBR-4.3	Name of the Coding System	S-RC	LN	
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	Bacteria susceptibility	
OBR-26	**Parent Result**			
OBR-26.1	**Parent Observation Identifier (Note 2)**			
OBR-26.1.1	Identifier	S-EX-A	625-4	
OBR-26.1.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
OBR-26.1.3	Name of the Coding System	S-EX-A	LN	
OBR-26.1.4	Alternate Identifier	S-EX-A		
OBR-26.1.5	Alternate Text	S-EX-A		
OBR-26.1.6	Name of Alternate Coding System	S-EX-A		
OBR-26.2	**Parent Observation Sub-Identifier**			
OBR-26.2.2	Group	S-EX-A	3	
OBR-26.2.3	Sequence	S-EX-A	1	

Order Information (cont'd) Child Information - Incorporate Verification				
Location	**Data Element Name**	**Store Requirement**	**Data**	**Tester Comment**
OBR-26.2.4	Identifier	S-EX-A	Islt-3	
OBR-29	**Parent (Note 2)**			
OBR-29.1	**Placer Assigned Identifier**			
OBR-29.1.1	Entity Identifier	S-EX-A	ORD723222-4	
OBR-29.1.2	Namespace ID	S-EX-A	NIST EHR	
OBR-29.1.3	Universal ID	S-EX-A		
OBR-29.1.4	Universal ID Type	S-EX-A		
OBR-29.2	**Filler Assigned Identifier**			
OBR-29.2.1	Entity Identifier	S-EX-A	R-783274-4	
OBR-29.2.2	Namespace ID	S-EX-A	NIST Lab Filler	
OBR-29.2.3	Universal ID	S-EX-A		
OBR-29.2.4	Universal ID Type	S-EX-A		
ORC-31/OBR-50	**Parent Universal Service Identifier**			
ORC-31.1/OBR-50.1	Identifier	S-EX-A	625-4	
ORC-31.2/OBR-50.2	Text	S-EX-A	Bacteria identified in Stool by Culture	
ORC-31.3/OBR-50.3	Name of Coding System	S-EX-A	LN	
ORC-31.4/OBR-50.4	Alternate Identifier	S-EX-A	3456543	
ORC-31.5/OBR-50.5	Alternate Text	S-EX-A	CULTURE STOOL	
ORC-31.6/OBR-50.6	Name of Alternate Coding System	S-EX-A	99USL	
ORC-31.9/OBR-50.9	Original Text	S-EX-A	2.52	
Note 1 -Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text field is populated, MUST store the exact data received.				
Note 2 - The HIT Module must display the relationship to the parent, but is not required to store the actual received data when the association to a specific result is achieved, otherwise use S-EX to save the information.				

CHILD - 1

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	28-1	
OBX-3.2	Text	S-EX-A	Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)	
OBX-3.3	Name of the Coding System	S-RC	LN	
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**			
OBX-5.1	Comparator	S-EX	<	
OBX-5.2	Num1	S-EQ	32	
OBX-5.3	Separator/Suffix	S-EX		
OBX-5.4	Num2	S-EQ		
OBX-6	**Units (Note 2)**			
OBX-6.1	Identifier	S-TR-R	ug/mL	
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		
OBX-7	**Reference Range**	S-EX		
OBX-8	**Abnormal Flags**	S-TR-R	R	
OBX-11	**Observation Result Status**	S-TR-R	C	
OBX-14	**Date/Time of the Observation**			
OBX-14.1	Time	S-EQ	09/23/2015 14:00:	
OBX-19	**Date/Time of the Analysis**			
OBX-19.1	Time	S-EQ	09/27/2015 11:20:	

Note 1 - Store the Identifier and the Text for each populated triplet using the S-EX-A, S-TR-R, or S-EX store requirement as indicated. If Original Text 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	During the repeat test the amoxicillin result indicated resistance, rather than falling into the indeterminate realm.	

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	119339001	
SPM-4.2	Text	S-EX-A	Stool specimen	
SPM-4.3	Name of the Coding System	S-RC	SCT	
SPM-4.4	Alternate Identifier	S-TR-R		
SPM-4.5	Alternate Text	S-EX-A		
SPM-4.6	Name of Alternate Coding System	S-RC		
SPM-4.9	Original Text	S-EX	Stool	

Note 1 - The 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 indicated. If Original Text field is populated, MUST store the exact data received.

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|NIST Lab Facility||NIST EHR Facility|20150926140551||ORU^R01^ORU_R01|LRI_4.2_3.1-NG_FRN|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_FRN_Component^^2.16.840.1.113883.9.84^ISO

PID|1||PATID1234^^^NIST MPI^MR||Jones^William^A^^^^L||19610627|M||2106-3^White^HL70005|||||||PATID1234^^^NIST MPI^AN

ORC|RE|ORD723222-4^NIST EHR|R-783274-4^NIST Lab Filler|GORD874255^NIST EHR|||||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^^NPI

OBR|1|ORD723222-4^NIST EHR|R-783274-4^NIST Lab Filler|625-4^Bacteria identified in Stool by Culture^LN^3456543^CULTURE STOOL^99USL^2.52^^Stool Culture|||201509231400||||||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI|||||20150926140551|||F|||10092000194^Hamlin^Pafford^^^^^^NPI^L^^^NPI|||||||||||||||||MIC^Observation of type microbiology^HL70411^^^^2.5.1||CC^Copies Requested^HL70507

OBX|1|CWE|625-4^Bacteria identified in Stool by Culture^LN^^^^2.52^^Stool Culture|^1^1^Islt-1|103429008^Enterohemorrhagic Escherichia coli, serotype O157:H7^SCT^^^^201509USEd^^Shiga toxin producing E. coli O157:H7 isolated|||A|||F|||201509231400|||||201509251930||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT

NTE|1|| Susceptibility testing for E.coli is not performed, because antibiotics should not be used to treat this infection. There is no evidence that treatment with antibiotics is helpful, and taking antibiotics may increase the risk of hemolytic-uremic syndrome (HUS). Antidiarrheal agents like Imodium may also increase that risk. Non-specific supportive therapy, including hydration, is important.

OBX|2|CWE|625-4^Bacteria identified in Stool by Culture^LN^^^^2.52^^Stool Culture|^2^1^Islt-2|398567006^Salmonella I, group O:4^SCT^^^^201509USEd^^Salmonella I, group O:4 isolated|||A|||F|||201509231400|||||201509251930||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT

NTE|1||Salmonella gastrointestinal infections usually resolve in 5-7 days and most do not require treatment other than oral fluids. Persons with severe diarrhea may require rehydration with intravenous fluids. Antibiotic therapy can prolong the duration of excretion of non-typhoidal Salmonella and is recommended only for patients with severe illness (e.g., those with severe diarrhea, high fever, bloodstream infection, or who need hospitalization) or those at risk of severe disease or complications, including young infants, older adults (over 65 years old) and immunocompromised persons. Antibiotic resistance is increasing among some Salmonella bacteria; therefore, susceptibility testing can help guide appropriate therapy. Choices for antibiotic therapy for severe infections include fluoroquinolones, third-generation cephalosporins, and ampicillin (for susceptible infections).

OBX|3|CWE|625-4^Bacteria identified in Stool by Culture^LN^^^^2.52^^Stool Culture|^3^1^Islt-3|85729005^Shigella flexneri^SCT^^^^201509USEd^^Shigella flexneri isolated|||A|||F|||201509231400|||||201509251930||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT

NTE|1||Antibiotic treatment is recommended for patients with severe disease, bloody diarrhea, or compromised immune systems. Resistance to traditional first-line drugs like ampicillin and trimethoprim-sulfamethoxazole is common, and resistance to some other antibiotics is increasing. With this in mind, antibiotic susceptibility testing can help guide appropriate therapy. When an ampicillin- or trimethroprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.

SPM|1|S-2015-66&GoodHealthC_EHR^S-9911-33&NIST Lab Filler||119339001^Stool specimen^SCT^^^^201509USEd^^Stool|||||||||201509231400

ORC|RE||R-783274-4^NIST Lab Filler|GORD874255^NIST EHR|||||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI|||||||||||||||625-4^Bacteria identified in Stool by Culture^LN^3456543^CULTURE STOOL^99USL^2.52^^Stool Culture

OBR|2||R-783274-4^NIST Lab Filler|50545-3^Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration (MIC)^LN^^^^2.52^^Bacteria susceptibility|||201509231400||||G|||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI|||||20150927112054|||F|625-4&Bacteria identified in Stool by Culture&LN&&&&&2.52&&Stool Culture^&2&1&Islt-2||10092000194^Hamlin^Pafford^^^^^^NPI^L^^^NPI|ORD723222-4&NIST EHR^R-783274-4&NIST Lab Filler|||||||||||||||MIC^Observation of type microbiology^HL70411^^^^2.5.1||CC^Copies Requested^HL70507|625-4^Bacteria identified in Stool by Culture^LN^3456543^CULTURE STOOL^99USL^2.52^^Stool Culture

OBX|1|SN|28-1^Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^^2.52|^1^1^Islt-2|<^0.06|ug/mL^^UCUM^^^^1.9||S|||F|||201509231400|||||201509261100||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT|SUR

OBX|2|SN|267-5^Gentamicin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^^2.52|^1^1^Islt-2|^0.05|ug/mL^^UCUM^^^^1.9||S|||F|||201509231400|||||201509261100||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT|SUR

OBX|3|SN|185-9^Ciprofloxacin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^^2.52|^1^1^Islt-2|^0.05|ug
/mL^^UCUM^^^^1.9||S|||F|||201509231400|||||201509261100||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los
Angeles^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT|SUR

ORC|RE||R-783274-4^NIST Lab Filler|GORD874255^NIST EHR|||||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI||||||||||||||
||||625-4^Bacteria identified in Stool by Culture^LN^3456543^CULTURE STOOL^99USL^2.52^^Stool Culture

OBR|3||R-783274-4^NIST Lab Filler|50545-3^Bacterial susceptibility panel in Isolate by Minimum inhibitory concentration
(MIC)^LN^^^^2.52^^Bacteria susceptibility|||201509231400||||G|||||5742200012^Radon^Nicholas^^^^^^NPI^L^^^NPI|||||20150
927163551|||C|625-4&Bacteria identified in Stool by Culture&LN&&&&2.52&&Stool Culture^&3&1&Islt-3||10092000194^Hamlin^Pa
fford^^^^^^NPI^L^^^NPI|ORD723222-4&NIST EHR^R-783274-4&NIST Lab Filler|||||||||||||||||MIC^Observation of type microbio
logy^HL70411^^^^2.5.1||CC^Copies Requested^HL70507|625-4^Bacteria identified in Stool by Culture^LN^3456543^CULTURE STOO
L^99USL^2.52^^Stool Culture

OBX|1|SN|28-1^Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^^2.52|^1^1^Islt-3|<^32|ug/mL^^
UCUM^^^^1.9||R|||C|||201509231400|||||201509271120||||Century Hospital^^^^^CLIA^XX^^^24D9871327|2070 Test Park^^Los Ange
les^CA^90067^^B|5432178916^Knowsalot^Phil^J.^^^^^NPI^L^^^NPI||||RSLT|SUR

NTE|1||During the repeat test the amoxicillin result indicated resistance, rather than falling into the indeterminate r
ealm.