

### 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\_4.1\_2.1-NG\_FRU

This test case is evaluating correct use of the status codes in OBR-25 and OBX-11.

Special case test aspects include ensuring that the system can correctly populate 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

LRI\_4.0\_1.1-NG AND LRI\_4.1\_2.1-NG\_FRU have been sent previously.

### PostCondition

No Post Condition.

### TestObjectives

- Determine if the system can correctly create 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\_4.1\_2.1-NG\_FRU

Check that the parent-child linkage is correctly implemented:

The second OBR has OBR-26 populated with the result that spawned the respective susceptibility testing, e.g. the second group, first sequence of the Stool culture ( Salmonella I, group O:4)

The third OBR has OBR-26 populated with the result that spawned the respective susceptibility testing, e.g. the third group, first sequence Stool culture (Shigella flexneri).

In both cases the OBR-29 references the Placer and Filler Order Number of the Stool culture OBR.

In the third order group a corrected result is sent.

## Test Case Information

## LRI\_4.1\_3.1-NG\_FRU - Culture-Escherichia coli, Salmonella, Shigella - Parent/Child Susceptibility - Correction

Test Case ID

LRI\_4.1\_3.1-NG\_FRU

## MSH

Location	Data Element	Data	Categorization
<b>MSH.1</b>	<b>Field Separator</b>		IG Fixed Data
<b>MSH.2</b>	<b>Encoding Characters</b>	~\&	IG Fixed Data
<b>MSH.3</b>	<b>Sending Application</b>		
MSH.3.1	Namespace ID	NIST Test Lab APP	Configurable Data
<b>MSH.4</b>	<b>Sending Facility</b>		
MSH.4.1	Namespace ID	NIST Lab Facility	Configurable Data
<b>MSH.6</b>	<b>Receiving Facility</b>		
MSH.6.1	Namespace ID	NIST EHR Facility	Configurable Data
<b>MSH.7</b>	<b>Date/Time Of Message</b>		
MSH.7.1	Time	20150926140551	System Generated
<b>MSH.9</b>	<b>Message Type</b>		
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
<b>MSH.10</b>	<b>Message Control ID</b>	LRI_4.1_3.1-NG_FRU	System Generated
<b>MSH.11</b>	<b>Processing ID</b>		
MSH.11.1	Processing ID	D	Changeable Data
<b>MSH.12</b>	<b>VersionID</b>		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
<b>MSH.15</b>	<b>Accept Acknowledgment Type</b>	AL	IG Fixed Data
<b>MSH.16</b>	<b>Application Acknowledgment Type</b>	AL	IG Fixed Data
<b>MSH.21</b>	<b>Message Profile Identifier</b>		
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
<b>MSH.21[2]</b>	<b>Message Profile Identifier</b>		
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
<b>MSH.21[3]</b>	<b>Message Profile Identifier</b>		
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
<b>PID.1</b>	<b>Set ID - PID</b>	1	IG Fixed Data
<b>PID.3</b>	<b>Patient Identifier List</b>		
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
<b>PID.5</b>	<b>Patient Name</b>		
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

<b>PID.7</b>	<b>Location</b>	<b>Date/Time of Birth</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
PID.7.1		Time		19610627	Changeable Data
<b>PID.8</b>	<b>Administrative Sex</b>			M	Changeable Data
<b>PID.10</b>	<b>Race</b>				
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
<b>PID.18</b>	<b>Patient Account Number</b>				
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	GORD874211	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

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
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
<b>OBR.22</b>	<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1	Time	20150926140551	Changeable Data
<b>OBR.25</b>	<b>Result Status</b>	F	Test Case Fixed Data
<b>OBR.28</b>	<b>Result Copies To</b>		
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
<b>OBR.47</b>	<b>Filler Supplemental Service Information</b>		
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
<b>OBR.49</b>	<b>Results Handling</b>		
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

<b>Location</b>	<b>Data Element</b>	<b>Data</b>	<b>Categorization</b>
<b>OBX.1</b>	<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>		
OBX.4.2	Group	1	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-1	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
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
<b>OBX.8</b>	<b>Abnormal Flags</b>	A	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		

OBX.19.1	Time	Data Element	201509251930	Data	Changeable Data
Location		Data Element		Data	Categorization
<b>OBX.23</b>		<b>Performing Organization Name</b>			
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
<b>OBX.24</b>		<b>Performing Organization Address</b>			
OBX.24.1		Street Address			
OBX.24.1.1		Street or Mailing Address	2070 Test Park		Changeable Data
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
<b>OBX.25</b>		<b>Performing Organization Medical Director</b>			
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
<b>OBX.29</b>		<b>Observation Type</b>	RSLT		Test Case Fixed Data

#### NTE

Location	Data Element	Data	Categorization
<b>NTE.1</b>	<b>Set ID - NTE</b>	1	IG Fixed Data
<b>NTE.3</b>	<b>Comment</b>	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
<b>OBX.1</b>	<b>Set ID - OBX</b>	2	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>		
OBX.4.2	Group	2	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-2	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.1	Identifier	398567006	Changeable Data
OBX.5.2	Text	Salmonella I, group O:4	Changeable Data

OBX.5.3 Location	Name of the Coding System Data Element	SCT Data	Changeable Data Categorization
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Salmonella I, group O:4 isolated	Changeable Data
<b>OBX.8</b>	<b>Abnormal Flags</b>	A	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509251930	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
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
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
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
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
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
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

#### NTE

Location	Data Element	Data	Categorization
<b>NTE.1</b>	<b>Set ID - NTE</b>	1	IG Fixed Data
<b>NTE.3</b>	<b>Comment</b>	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

Location	Data Element	Data	Categorization
<b>OBX.1</b>	<b>Set ID - OBX</b>	3	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	CWE	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>		
OBX.4.2	Group	3	Changeable Data
OBX.4.3	Sequence	1	Changeable Data
OBX.4.4	Identifier	Islt-3	Changeable Data
<b>OBX.5</b>	<b>Observation Value</b>		
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
<b>OBX.8</b>	<b>Abnormal Flags</b>	A	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509251930	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
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
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
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
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
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
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data

NTE

Location	Data Element	Data	Categorization
<b>NTE.1</b>	<b>Set ID - NTE</b>	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 trimethoprim-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-783274-6	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
ORC.4	Placer Group Number		
ORC.4.1	Entity Identifier	GORD874211	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	2	IG Fixed Data
OBR.3	Filler Order Number		
OBR.3.1	Entity Identifier	R-783274-6	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



Location	Data Element	Data	Categorization
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
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Time	201509231400	Changeable Data
<b>OBR.11</b>	<b>Specimen Action Code</b>	G	Test Case Fixed Data
<b>OBR.16</b>	<b>Ordering Provider</b>		
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
<b>OBR.22</b>	<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1	Time	20150927112054	Changeable Data
<b>OBR.25</b>	<b>Result Status</b>	F	Test Case Fixed Data
<b>OBR.26</b>	<b>Parent Result</b>		
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
<b>OBR.28</b>	<b>Result Copies To</b>		
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
<b>OBR.29</b>	<b>Parent</b>		
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
<b>OBR.47</b>	<b>Filler Supplemental Service Information</b>		
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
<b>OBR.49</b>	<b>Results Handling</b>		
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
<b>OBX.1</b>	<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	SN	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>		
OBX.4.2	Group	1	Test Case Fixed Data
OBX.4.3	Sequence	1	Test Case Fixed Data
OBX.4.4	Identifier	IsIt-2	Test Case Fixed Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.1	Comparator	<	Test Case Fixed Data
OBX.5.2	Num1	0.06	Test Case Fixed Data
<b>OBX.6</b>	<b>Units</b>		
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
<b>OBX.8</b>	<b>Abnormal Flags</b>	S	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509261100	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
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
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
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
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
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
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data
<b>OBX.30</b>	<b>Observation SubType</b>	SUR	Test Case Fixed Data

## OBX

Location	Data Element	Data	Categorization
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OBX.1 Location	Set ID - OBX	Data Element	2 Data	IG Fixed Data	Categorization
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	IsIt-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				
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 Location	Identifier	Data Element	185-9 Data	Test Case Fixed Data Categorization
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>			
OBX.4.2	Group		1	Test Case Fixed Data
OBX.4.3	Sequence		1	Test Case Fixed Data
OBX.4.4	Identifier		IsIt-2	Test Case Fixed Data
<b>OBX.5</b>	<b>Observation Value</b>			
OBX.5.2	Num1		0.05	Test Case Fixed Data
<b>OBX.6</b>	<b>Units</b>			
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
<b>OBX.8</b>	<b>Abnormal Flags</b>		S	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>		F	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>			
OBX.14.1	Time		201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>			
OBX.19.1	Time		201509261100	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>			
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
<b>OBX.24</b>	<b>Performing Organization Address</b>			
OBX.24.1	Street Address			
OBX.24.1.1	Street or Mailing Address		2070 Test Park	Changeable Data
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
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>			
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
<b>OBX.29</b>	<b>Observation Type</b>		RSLT	Test Case Fixed Data
<b>OBX.30</b>	<b>Observation SubType</b>		SUR	Test Case Fixed Data

#### ORC

Location	Data Element	Data	Categorization
<b>ORC.1</b>	<b>Order Control</b>	RE	Test Case Fixed Data
<b>ORC.3</b>	<b>Filler Order Number</b>		
ORC.3.1	Entity Identifier	R-783274-7	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>ORC.4</b>	<b>Placer Group Number</b>		
ORC.4.1	Entity Identifier	GORD874211	Changeable Data

Location	Data Element	Data	Categorization
<b>ORC.12</b>	<b>Ordering Provider</b>		
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
<b>OBR.1</b>	<b>Set ID - OBR</b>	3	IG Fixed Data
<b>OBR.3</b>	<b>Filler Order Number</b>		
OBR.3.1	Entity Identifier	R-783274-7	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
<b>OBR.4</b>	<b>Universal Service Identifier</b>		
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
<b>OBR.7</b>	<b>Observation Date/Time</b>		
OBR.7.1	Time	201509231400	Changeable Data
<b>OBR.11</b>	<b>Specimen Action Code</b>	G	Test Case Fixed Data
<b>OBR.16</b>	<b>Ordering Provider</b>		
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
<b>OBR.22</b>	<b>Results Rpt/Status Chng - Date/Time</b>		
OBR.22.1	Time	20150927163551	Changeable Data
<b>OBR.25</b>	<b>Result Status</b>	C	Test Case Fixed Data
<b>OBR.26</b>	<b>Parent Result</b>		
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
<b>OBR.28</b>	<b>Result Copies To</b>		
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 Location	Name Type Code Data Element	L Data	Changeable Data Categorization
OBR.28.13	Identifier Type Code	NPI	Changeable Data
<b>OBR.29</b>	<b>Parent</b>		
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
<b>OBR.47</b>	<b>Filler Supplemental Service Information</b>		
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
<b>OBR.49</b>	<b>Results Handling</b>		
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
<b>OBX.1</b>	<b>Set ID - OBX</b>	1	IG Fixed Data
<b>OBX.2</b>	<b>Value Type</b>	SN	Test Case Fixed Data
<b>OBX.3</b>	<b>Observation Identifier</b>		
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
<b>OBX.4</b>	<b>Observation Sub-ID</b>		
OBX.4.2	Group	1	Test Case Fixed Data
OBX.4.3	Sequence	1	Test Case Fixed Data
OBX.4.4	Identifier	IsIt-3	Test Case Fixed Data
<b>OBX.5</b>	<b>Observation Value</b>		
OBX.5.1	Comparator	<	Test Case Fixed Data
OBX.5.2	Num1	32	Test Case Fixed Data
<b>OBX.6</b>	<b>Units</b>		
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
<b>OBX.8</b>	<b>Abnormal Flags</b>	R	Test Case Fixed Data
<b>OBX.11</b>	<b>Observation Result Status</b>	C	Test Case Fixed Data
<b>OBX.14</b>	<b>Date/Time of the Observation</b>		
OBX.14.1	Time	201509231400	Changeable Data
<b>OBX.19</b>	<b>Date/Time of the Analysis</b>		
OBX.19.1	Time	201509271120	Changeable Data
<b>OBX.23</b>	<b>Performing Organization Name</b>		
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
<b>OBX.24</b>	<b>Performing Organization Address</b>		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data

OBX.24.4 Location	State or Province Data Element	CA Data	Changeable Data Categorization
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
<b>OBX.25</b>	<b>Performing Organization Medical Director</b>		
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
<b>OBX.29</b>	<b>Observation Type</b>	RSLT	Test Case Fixed Data
<b>OBX.30</b>	<b>Observation SubType</b>	SUR	Test Case Fixed Data

NTE

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	1	IG Fixed Data
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	GORD874211
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	<p>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.</p>
								<p>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</p>

Stool Culture	Salmonella I, group O:4 isolated		A	F	09/23/2015 14:00	09/25/2015 19:30	<p>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).</p>
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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 trimethoprim-sulfamethoxazole-resistant strain is isolated, choices for therapy include fluoroquinolones, ceftriaxone, and azithromycin.
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#### 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-783274-6
Placer Group Number	GORD874211

Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
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-783274-7
Placer Group Number	GORD874211
Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
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.

MSH|^~&|NIST Test Lab APP|NIST Lab Facility|NIST EHR Facility|20150926140551||ORU^R01^ORU\_R01|LRI\_4.1\_3.1-NG\_FRU|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\_Component^^2.16.840.1.113883.9.83^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|GORD874211^NIST EHR|||||5742200012^Radon^Nicholas^^^^^^NPI^L^^NPI  
^^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^IsIt-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^IsIt-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^IsIt-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 trimethoprim-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-783274-6^NIST Lab Filler|GORD874211^NIST EHR|||||5742200012^Radon^Nicholas^^^^^^NPI^L^^NPI

OBR|2||R-783274-6^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^IsIt-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

OBX|1|SN|28-1^Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^^2.52|^1^1^IsIt-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^IsIt-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^IsIt-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^Knowsallot^Phil^J.^^^NPI^L^^NPI|||RSLT|SUR

ORC|RE||R-783274-7^NIST Lab Filler|GORD874211^NIST EHR|||5742200012^Radon^Nicholas^^^NPI^L^^NPI

OBR|3||R-783274-7^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|||20150927163551|||C|625-4&Bacteria identified in Stool by Culture&LN&&&&2.52&&Stool Culture^&3&1&IsIt-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

OBX|1|SN|28-1^Ampicillin [Susceptibility] by Minimum inhibitory concentration (MIC)^LN^^^2.52|^1^1^IsIt-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^Knowsallot^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.