

Description

A patient is hospitalized for substance abuse. The physician orders a hepatitis panel through the hospital's EHR system to test for Hepatitis A, B and C antibodies/antigens. The serum specimen is collected the same day at in the morning and submitted to the hospital lab for testing via their LIS right after it was drawn. A few hours later the patient's test results are as follows:

- (1)Hepatitis A IgM antibodies (IgM anti-HAV) "Negative"
- (2)Hepatitis A antibodies (anti-HAV) "Negative"
- (3)Hepatitis B core antibodies (anti-HBVC) "Negative"
- (4)Hepatitis B core antibodies (anti-HBVC) quantitative 0.40 IU/mL (reference range: <0.50 IU/mL)
- (5)Hepatitis B virus e antibodies (anti-HBVe) "Negative"
- (6)Hepatitis B surface antigen (HBVsAg) "Negative"
- (7)Hepatitis B surface antibody (anti-HBVs) "Negative"
- (8)Hepatitis C antibody screen (anti-HCV) "Positive"
- (9)Hepatitis C antibodies Signal to Cut-off Ratio 10.8 s/co (reference range: 0.0-0.9 s/co)

The hospital LIS sends an LRI message containing these results to the EHR-S.

Comments

This is the parent message.

PreCondition

No Pre-condition.

PostCondition

No Post Condition.

TestObjectives

- Demonstrate the capability to create typically populated Hepatitis panel lab result message.
- Tests support for multiple comments for one test result.

Test Case Information

LRI_5.1_1.1-NG_FRN - Reflex - Hepatitis

Test Case ID

LRI_5.1_1.1-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_5.1_1.1-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	LAB_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	PATID1239	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	Smirnoff	Changeable Data
PID.5.2	Given Name	Peggy	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
PID.7	Date/Time of Birth		
PID.7.1	Time	19750401	Changeable Data

PID.8	Location	Administrative Sex	Data Element	Data	Changeable Data	Categorization
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			PATID1239		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	ORD448811	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Changeable Data
ORC.3	Filler Order Number		
ORC.3.1	Entity Identifier	R-511	Changeable Data
ORC.3.2	Namespace ID	NIST Lab Filler	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.12.6	Prefix (e.g., DR)	DR	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	ORD448811	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Changeable Data
OBR.3	Filler Order Number		
OBR.3.1	Entity Identifier	R-511	Changeable Data
OBR.3.2	Namespace ID	NIST Lab Filler	Changeable Data
OBR.4	Universal Service Identifier		
OBR.4.1	Identifier	HepABC Panel	Changeable Data
OBR.4.2	Text	Hepatitis A B C Panel	Changeable Data
OBR.4.3	Name of Coding System	L	Changeable Data
OBR.7	Observation Date/Time		
OBR.7.1	Time	20150925	Changeable Data
OBR.16	Ordering Provider		
OBR.16.1	ID Number	5742200012	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Radon	Changeable Data
OBR.16.3	Given Name	Nicholas	Changeable Data
OBR.16.6	Prefix (e.g., DR)	DR	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	20150926140500-0890	Changeable Data
Location	Data Element	Data	Categorization
OBR.25	Result Status	F	Test Case 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	22314-9	Test Case Fixed Data
OBX.3.2	Text	Hepatitis A virus IgM Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HAVM	Changeable Data
OBX.3.5	Alternate Text	Hepatitis A IgM antibodies (IgM anti-HAV)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

OBX

ODA

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	20575-7	Test Case Fixed Data
OBX.3.2	Text	Hepatitis A virus Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HAVAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis A antibodies (anti-HAV)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

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	Location	Observation Identifier Data Element	Data	Categorization
OBX.3.1		Identifier	16933-4	Test Case Fixed Data
OBX.3.2		Text	Hepatitis B virus core Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3		Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4		Alternate Identifier	HBVcAB	Changeable Data
OBX.3.5		Alternate Text	Hepatitis B core antibodies (anti-HBVc)	Changeable Data
OBX.3.6		Name of Alternate Coding System	L	Changeable Data
OBX.3.7		Coding System Version	2.52	Changeable Data
OBX.5		Observation Value		
OBX.5.1		Identifier	260385009	Test Case Fixed Data
OBX.5.2		Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3		Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4		Alternate Identifier	NEG	Changeable Data
OBX.5.5		Alternate Text	NEGATIVE	Changeable Data
OBX.5.6		Name of Alternate Coding System	L	Changeable Data
OBX.5.7		Coding System Version	201509USED	Changeable Data
OBX.5.9		Original Text	Negative (qualifier value)	Changeable Data
OBX.7		Reference Range	Negative	Changeable Data
OBX.8		Abnormal Flags	N	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	20150925	Changeable Data
OBX.19		Date/Time of the Analysis		
OBX.19.1		Time	201509261400	Changeable Data
OBX.23		Performing Organization Name		
OBX.23.1		Organization Name	Century Hospital	Changeable Data
OBX.23.6		Assigning Authority		
OBX.23.6.1		Namespace ID	CLIA	Changeable Data
OBX.23.7		Identifier Type Code	XX	Changeable Data
OBX.23.10		Organization Identifier	24D9871327	Changeable Data
OBX.24		Performing Organization Address		
OBX.24.1		Street Address		
OBX.24.1.1		Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3		City	Los Angeles	Changeable Data
OBX.24.4		State or Province	CA	Changeable Data
OBX.24.5		Zip or Postal Code	90067	Changeable Data
OBX.24.6		Country	USA	Changeable Data
OBX.24.7		Address Type	B	Changeable Data
OBX.24.9		County/Parish Code	06037	Changeable Data
OBX.25		Performing Organization Medical Director		
OBX.25.2		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.25.6		Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29		Observation Type	RSLT	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	4	IG Fixed Data
OBX.2	Value Type	SN	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	22316-4	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus core Ab [Units/volume] in Serum	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBX.3.4	Alternate Identifier	HBcAbQ	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B core antibodies (anti-HBVe) Quant	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.2	Num1	0.40	Test Case Fixed Data
OBX.6	Units		
OBX.6.1	Identifier	[IU]/mL	Changeable Data
OBX.6.2	Text	international unit per milliliter	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.4	Alternate Identifier	IU/ml	Changeable Data
OBX.6.6	Name of Alternate Coding System	L	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.7	Reference Range	<0.50 IU/mL	Changeable Data
OBX.8	Abnormal Flags	N	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	5	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	22320-6	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus e Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVeAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B e antibodies (anti-HBVe)	Changeable Data

OBX.3.6 Location	Name of Alternate Coding System Data Element	L Data	Changeable Data Categorization
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	6	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	5195-3	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus surface Ag [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVsAG	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B surface antigen (HBsAg)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		

OBX.5.1 Location	Identifier	Data Element	260385009	Data	Test Case Fixed Data
OBX.5.2	Text		Negative (qualifier value)		Test Case Fixed Data
OBX.5.3	Name of the Coding System		SCT		Test Case Fixed Data
OBX.5.4	Alternate Identifier		NEG		Changeable Data
OBX.5.5	Alternate Text		NEGATIVE		Changeable Data
OBX.5.6	Name of Alternate Coding System		L		Changeable Data
OBX.5.7	Coding System Version		201509USED		Changeable Data
OBX.5.9	Original Text		Negative (qualifier value)		Changeable Data
OBX.7	Reference Range		Negative		Changeable Data
OBX.8	Abnormal Flags		N		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		20150925		Changeable Data
OBX.19	Date/Time of the Analysis				
OBX.19.1	Time		201509261400		Changeable Data
OBX.23	Performing Organization Name				
OBX.23.1	Organization Name		Century Hospital		Changeable Data
OBX.23.6	Assigning Authority				
OBX.23.6.1	Namespace ID		CLIA		Changeable Data
OBX.23.7	Identifier Type Code		XX		Changeable Data
OBX.23.10	Organization Identifier		24D9871327		Changeable Data
OBX.24	Performing Organization Address				
OBX.24.1	Street Address				
OBX.24.1.1	Street or Mailing Address		2070 Test Park		Changeable Data
OBX.24.3	City		Los Angeles		Changeable Data
OBX.24.4	State or Province		CA		Changeable Data
OBX.24.5	Zip or Postal Code		90067		Changeable Data
OBX.24.6	Country		USA		Changeable Data
OBX.24.7	Address Type		B		Changeable Data
OBX.24.9	County/Parish Code		06037		Changeable Data
OBX.25	Performing Organization Medical Director				
OBX.25.2	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.25.6	Prefix (e.g., DR)		Dr.		Changeable Data
OBX.29	Observation Type		RSLT		Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	7	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	22322-2	Test Case Fixed Data
OBX.3.2	Text	Hepatitis B virus surface Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HBVSAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis B surface antibody (anti-HBVs)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	260385009	Test Case Fixed Data
OBX.5.2	Text	Negative (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBX.5.4	Alternate Identifier	NEG	Changeable Data
OBX.5.5	Alternate Text	NEGATIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data
OBX.5.9	Original Text	Negative (qualifier value)	Changeable Data
OBX.7	Reference Range	Negative	Changeable Data
OBX.8	Abnormal Flags	N	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	8	IG Fixed Data
OBX.2	Value Type	CWE	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	16128-1	Test Case Fixed Data
OBX.3.2	Text	Hepatitis C virus Ab [Presence] in Serum	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HCVAB	Changeable Data
OBX.3.5	Alternate Text	Hepatitis C antibody screen (anti-HCV)	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.1	Identifier	10828004	Test Case Fixed Data
OBX.5.2	Text	Positive (qualifier value)	Test Case Fixed Data
OBX.5.3	Name of the Coding System	SCT	Test Case Fixed Data
OBX.5.4	Alternate Identifier	POS	Changeable Data
OBX.5.5	Alternate Text	POSITIVE	Changeable Data
OBX.5.6	Name of Alternate Coding System	L	Changeable Data
OBX.5.7	Coding System Version	201509USED	Changeable Data

OBX.5.9 Location	Original Text Data Element	Positive (qualifier value) Data	Changeable Data Categorization
OBX.7	Reference Range	Negative	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	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	Changeable Data
OBX.29	Observation Type	RSLT	Test Case Fixed Data

OBX

Location	Data Element	Data	Categorization
OBX.1	Set ID - OBX	9	IG Fixed Data
OBX.2	Value Type	SN	Test Case Fixed Data
OBX.3	Observation Identifier		
OBX.3.1	Identifier	48159-8	Test Case Fixed Data
OBX.3.2	Text	Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	Test Case Fixed Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier	HCVSCO	Changeable Data
OBX.3.5	Alternate Text	Hepatitis C antibodies Signal to Cut-off Ratio	Changeable Data
OBX.3.6	Name of Alternate Coding System	L	Changeable Data
OBX.3.7	Coding System Version	2.52	Changeable Data
OBX.5	Observation Value		
OBX.5.2	Num1	10.8	Test Case Fixed Data
OBX.6	Units		
OBX.6.1	Identifier	{s_co_ratio}	Changeable Data
OBX.6.2	Text	Signal to cutoff ratio	Changeable Data
OBX.6.3	Name of the Coding System	UCUM	Changeable Data
OBX.6.4	Alternate Identifier	s/co	Changeable Data
OBX.6.6	Name of Alternate Coding System	L	Changeable Data
OBX.6.7	Coding System Version	1.9	Changeable Data
OBX.7	Reference Range	0.0-0.9 s/co	Changeable Data
OBX.8	Abnormal Flags	H	Test Case Fixed Data

Location	Data Element	Data	Categorization
OBX.14	Date/Time of the Observation		
OBX.14.1	Time	20150925	Changeable Data
OBX.19	Date/Time of the Analysis		
OBX.19.1	Time	201509261400	Changeable Data
OBX.23	Performing Organization Name		
OBX.23.1	Organization Name	Century Hospital	Changeable Data
OBX.23.6	Assigning Authority		
OBX.23.6.1	Namespace ID	CLIA	Changeable Data
OBX.23.7	Identifier Type Code	XX	Changeable Data
OBX.23.10	Organization Identifier	24D9871327	Changeable Data
OBX.24	Performing Organization Address		
OBX.24.1	Street Address		
OBX.24.1.1	Street or Mailing Address	2070 Test Park	Changeable Data
OBX.24.3	City	Los Angeles	Changeable Data
OBX.24.4	State or Province	CA	Changeable Data
OBX.24.5	Zip or Postal Code	90067	Changeable Data
OBX.24.6	Country	USA	Changeable Data
OBX.24.7	Address Type	B	Changeable Data
OBX.24.9	County/Parish Code	06037	Changeable Data
OBX.25	Performing Organization Medical Director		
OBX.25.2	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.25.6	Prefix (e.g., DR)	Dr.	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	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9	Changeable Data

NTE

Location	Data Element	Data	Categorization
NTE.1	Set ID - NTE	2	IG Fixed Data
NTE.3	Comment	In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.	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-2015-666666	Configurable Data
SPM.2.1.2		GoodHealthC_EHR	Configurable Data
SPM.2.2			
SPM.2.2.1		S-991133	Changeable Data
SPM.2.2.2		NIST Lab Filler	Changeable Data
SPM.4	Specimen Type		
SPM.4.1	Identifier	119364003	Changeable Data
SPM.4.2	Text	Serum specimen (specimen)	Changeable Data
SPM.4.3	Name of the Coding System	SCT	Changeable Data

SPM Location	Alternate Identifier	Data Element	SER	Data	Changeable	Categorization
SPM.4.5	Alternate Text		SER			Changeable Data
SPM.4.6	Name of Alternate Coding System		L			Changeable Data
SPM.4.7	Coding System Version		201509	USED		Changeable Data
SPM.17	Specimen Collection Date/Time					
SPM.17.1	Range Start Date/Time					
SPM.17.1.1	Time		201509	25		Changeable Data

Patient Information

Element	Data
Name	Peggy Smirnoff
Date/Time of Birth	04/01/1975
Administrative Sex	Female
Race	White
Alt Race	

Order Observation**Ordering Provider**

Element	Data
Name	DR Nicholas Radon
Identifier number	5742200012

Observation Details

Element	Data
Observation General Information	
Placer Order Number	ORD448811
Filler Order Number	R-511
Placer Group Number	
Parent Universal Service Identifier	
Identifier	
Text	
Alt Identifier	
Alt Text	
Original Text	
Observation Details	
Universal Service Identifier	Hepatitis A B C Panel
Observation Date/Time	09/25/2015
Observation end Date/Time	
Specimen Action Code	
Relevant Clinical Information	
Relevant Clinical Information Original Text	
Observation Result Information	
Result Status	F
Results Report/Status Change - Date/Time	09/26/2015 2:05 PM
Results Handling	
Standard	
Observation Notes	

Timing/Quantity Information

Element	Data
Priority	
Start Date/time	
End Date/time	

Results Performing Laboratory

Element	Data
Laboratory Name	Century Hospital
Organization identifier	24D9871327
Address	2070 Test Park Los Angeles CA 90067 USA
Director Name	Dr. Phil J. Knowsalot
Director identifier	

Specimen Information

Element	Data
Specimen Type	Serum specimen (specimen)
Alt Specimen Type	Serum
Specimen Original Text	
Start date/time	20150925

Lab results

Element		Data						
Test performed		Hepatitis A B C Panel						
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
Hepatitis A virus IgM Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis A virus Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus core Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus core Ab [Units/volume] in Serum	0.40	international unit per milliliter	<0.50 IU/mL	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus e Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus surface Ag [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis B virus surface Ab [Presence] in Serum	Negative (qualifier value)		Negative	N	F	09/25/2015	09/26/2015 14:00	
Hepatitis C virus Ab [Presence] in Serum	Positive (qualifier value)		Negative	A	F	09/25/2015	09/26/2015 14:00	

Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay	10.8	Signal to cutoff ratio	0.0-0.9 s/co	H	F	09/25/2015	09/26/2015 14:00	Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9 In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.
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MSH|^^&NIST Test Lab APP|NIST Lab Facility|NIST EHR Facility|20150926140551||ORU^R01^ORU_R01|LRI_5.1_1.1-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~LAB_FRN_Component^^2.16.840.1.113883.9.84^ISO

PID|1||PATID1239^^NIST MPI^MR|Smimoff^Peggy^^^^L|19750401|F||2106-3^White^HL70005||||PATID1239^^NIST MPI^AN

ORC|RE|ORD448811^NIST EHR|R-511^NIST Lab Filler||||5742200012^Radon^Nicholas^^DR^^NPI^L^^NPI

OBR|1|ORD448811^NIST EHR|R-511^NIST Lab Filler|HepABC Panel^Hepatitis A B C Panel^L||20150925||||5742200012^Radon^Nicholas^^DR^^NPI^L^^NPI||||20150926140500-0800||F

OBX|1|CWE|22314-9^Hepatitis A virus IgM Ab [Presence] in Serum^LN^HAVM^Hepatitis A IgM antibodies (IgM anti-HAV)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|2|CWE|20575-7^Hepatitis A virus Ab [Presence] in Serum^LN^HAVAB^Hepatitis A antibodies (anti-HAV)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|3|CWE|16933-4^Hepatitis B virus core Ab [Presence] in Serum^LN^HBVcAB^Hepatitis B core antibodies (anti-HBVc)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|4|SN|22316-4^Hepatitis B virus core Ab [Units/volume] in Serum^LN^HBcAbQ^Hepatitis B core antibodies (anti-HBVc) Quant^L^2.52||^0.40|[IU]/mL^international unit per milliliter^UCUM^IU/mL^L^1.9|<0.50 IU/mL|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|5|CWE|22320-6^Hepatitis B virus e Ab [Presence] in Serum^LN^HBVeAB^Hepatitis B e antibodies (anti-HBVe)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|6|CWE|5195-3^Hepatitis B virus surface Ag [Presence] in Serum^LN^HBVsAG^Hepatitis B surface antigen (HBsAg)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|7|CWE|22322-2^Hepatitis B virus surface Ab [Presence] in Serum^LN^HBVSAB^Hepatitis B surface antibody (anti-HBVs)^L^2.52||260385009^Negative (qualifier value)^SCT^NEG^NEGATIVE^L^201509USED^^Negative (qualifier value)||Negative|N||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|8|CWE|16128-1^Hepatitis C virus Ab [Presence] in Serum^LN^HCVAB^Hepatitis C antibody screen (anti-HCV)^L^2.52||10828004^Positive (qualifier value)^SCT^POS^POSITIVE^L^201509USED^^Positive (qualifier value)||Negative|A||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

OBX|9|SN|48159-8^Hepatitis C virus Ab Signal/Cutoff in Serum or Plasma by Immunoassay^LN^HCVSCO^Hepatitis C antibodies Signal to Cut-off Ratio^L^2.52||^10.8|{s_co_ratio}^Signal to cutoff ratio^UCUM^s/co^L^1.9|0.0-0.9 s/co|H||F||20150925||||201509261400|||Century Hospital^^^^CLIA^XX^^24D9871327|2070 Test Park^^Los Angeles^CA^90067^USA^B^^06037|^Knowsalot^Phil^J.^Dr.||||RSLT

NTE|1||Negative: < 0.8; Indeterminate 0.8 - 0.9; Positive: > 0.9

NTE|2||In order to reduce the incidence of a false positive result, the CDC recommends that all s/co ratios between 1.0 and 10.9 be confirmed with additional Verification or PCR testing.

SPM|1|S-2015-666666&GoodHealthC_EHR^S-991133&NIST Lab Filler||119364003^Serum specimen (specimen)^SCT^SER^Serum^L^201509USED||||20150925