Description

An adult, Nitika Vally, comes to the clinic on Aug. 14, 1941 for an annual checkup. The clinic staff collects basic identifying information, including name, birth date, and sex. The clinic staff reviews the patient's vaccination history and determines that the patient needs a Hep A vaccination. The clinic staff gives the patient a Vaccine Information Statement for Hepatitis A published by the CDC on Oct 25, 2011 to review. After reading the VIS the patient agrees to receive the vaccination. The clinic staff prepares a Hep A vaccination dose, Merck and Co Lot #190FV, from the clinic private vaccine stock and administers it to the patient in the right arm. The clinic staff enters the patient demographic information, VFC status, VIS information, and vaccination administration information into the EHR and transmits it to the IIS.

PreCondition

NO PreCondition.

PostCondition

NO PostCondition.

TestObjectives

This test case examines the ability of an EHR to create a VXU message for single vaccination administered to an adult in the annual checkup. A typical populated message is tested for relevant "required", "required or empty" and "conditional" elements. The message must provide; -Patient demographic information in the PID segment -VFC status and VIS information in the OBX segments -Vaccination administration in the RXA and RXR segments. The test case provides an example of all the relevant elements.

Notes to Testers

NO Note.

Patient Information

Element Name	Data
Patient Name	Vally Nitika
Mother's Maiden Name	
Date/Time of Birth	08/13/1941
Administrative Sex	Female
Patient Address	
Local Number	
Race	
Ethnic Group	
Birth Order	

Vaccine Administration Information

Element Name	Data
Administered Code - Text	Hep A
Date/Time Start of Administration	08/14/2012
Administered Amount	1
Administered Units	milliliters
Administration Notes (Text)	New immunization record
Substance Lot Number	I90FV
Substance Expiration Date	12/14/2012
Substance Manufacturer Name	Merck and Co
Substance/Treatment Refusal Reason	
Route	Intramuscular
Administration Site	Right Arm

New immunization record	
Date vaccine information statement published	10/25/2011
vaccine type	Hepatitis A
Date vaccine information statement presented	08/14/2012
Vaccine funding program eligibility category	Not VFC eligible

Test Case Information

NIST-IZ-002.00 - Admin for Adult	
Test Case ID	IZ_2_1.1

MSH : Message Header Segment

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	Test EHR Application	Configurable Data
MSH.3.2	Universal ID		
MSH.3.3	Universal ID Type		
MSH.4	**Sending Facility**		
MSH.4.1	Namespace ID	X68	Test Case Fixed Data
MSH.4.2	Universal ID		
MSH.4.3	Universal ID Type		
MSH.6	**Receiving Facility**		
MSH.6.1	Namespace ID	NIST Test Iz Reg	Configurable Data
MSH.6.2	Universal ID		
MSH.6.3	Universal ID Type		
MSH.7	**Date/Time Of Message**		
MSH.7.1	Time	201207010822	System Generated
MSH.9	**Message Type**		
MSH.9.1	Message Code	VXU	IG Fixed Data
MSH.9.2	Event Type	V04	IG Fixed Data
MSH.9.3	Message Structure	VXU_V04	IG Fixed Data
MSH.10	**Message Control ID**	NIST-IXZ-TC-VXU-XXX.XX	System Generated
MSH.11	**Processing ID**		
MSH.11.1	Processing ID	P	Configurable Data
MSH.12	**VersionID**		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.15	**Accept Acknowledgment Type**	AL	Changeable Data
MSH.16	**Application Acknowledgment Type**	ER	Changeable Data

PID : Patient Identifier Segment

Location	Data Element	Data	Categorization
PID.1	**Set ID - PID**	1	IG Fixed Data
PID.3[1]	**Patient Identifier List**		
PID.3[1].1	ID Number	MR-76732	Changeable Data
PID.3[1].4	Assigning Authority		
PID.3[1].4.1	Namespace ID	NIST MPI	Changeable Data
PID.3[1].4.2	Universal ID		
PID.3[1].4.3	Universal ID Type		
PID.3[1].5	Identifier Type Code	MR	Test Case Fixed Data
PID.5	**Patient Name**		
PID.5.1	Family Name		
PID.5.1.1	Surname	Vally	Changeable Data
PID.5.2	Given Name	Nitika	Changeable Data
PID.5.3	Second and Further Given Names or Initials Thereof		
PID.5.7	Name Type Code	L	Test Case Fixed Data
PID.6	**Mother's Maiden Name**		

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PID.6.1	Family Name		
PID.6.1.1	Surname		
PID.6.2	Given Name		
PID.6.3	Second and Further Given Names or Initials Thereof		
PID.6.7	Name Type Code		
PID.7	**Date/Time of Birth**		
PID.7.1	Time	19410813	Changeable Data
PID.8	**Administrative Sex**	F	Test Case Fixed Data
PID.10	**Race**		
PID.10.1	Identifier		
PID.10.2	Text		
PID.10.3	Name of the Coding System		
PID.10.4	Alternate Identifier		
PID.10.5	Alternate Text		
PID.10.6	Name of Alternate Coding System		
PID.11	**Patient Adddress**		
PID.11.1	Street Address		
PID.11.1.1	Street or Mailing Address		
PID.11.2	Other Designation		
PID.11.3	City		
PID.11.4	State or Province		
PID.11.5	Zip or Postal Code		
PID.11.6	Country		
PID.11.7	Address Type		
PID.13	**Phone Number-Home**		
PID.13.2	Telecommunication Use Code	NET	Test Case Fixed Data
PID.13.3	Telecommunication Equipment Type		
PID.13.4	Email Address	nvally@fastmail.com	Changeable Data
PID.13.6	Area/City Code		
PID.13.7	Local Number		
PID.22	**Ethnic Group**		
PID.22.1	Identifier		
PID.22.2	Text		
PID.22.3	Name of the Coding System		
PID.22.4	Alternate Identifier		
PID.22.5	Alternate Text		
PID.22.6	Name of Alternate Coding System		
PID.24	**Multiple Birth Indicator**		
PID.25	**Birth Order**		
PID.29	**Patient Death Date and Time**		
PID.29.1	Time		
PID.30	**Patient Death Indicator**		

ORC : Order Common

Location	Data Element	Data	Categorization
ORC.1	**Order Control**	RE	IG Fixed Data
ORC.2	**Placer Order Number**		
ORC.2.1	Entity Identifier		
ORC.2.2	Namespace ID		
ORC.2.3	Universal ID		
ORC.2.4	Universal ID Type		
ORC.3	**Filler Order Number**		
ORC.3.1	Entity Identifier	IZ-783275	Changeable Data
ORC.3.2	Namespace ID	NDA	Changeable Data
ORC.3.3	Universal ID		
ORC.3.4	Universal ID Type		
ORC.10	**Entered By**		
ORC.10.1	ID Number		
ORC.10.2	Family Name		
ORC.10.2.1	Surname		
ORC.10.3	Given Name		
ORC.10.4	Second and Further Given Names or Initials Thereof		
ORC.10.9	Assigning Authority		
ORC.10.9.1	Namespace ID		
ORC.10.9.2	Universal ID		
ORC.10.9.3	Universal ID Type		
ORC.12	**Ordering Provider**		
ORC.12.1	ID Number	57422	Changeable Data
ORC.12.2	Family Name		
ORC.12.2.1	Surname	RADON	Changeable Data
ORC.12.3	Given Name	NICHOLAS	Changeable Data
ORC.12.4	Second and Further Given Names or Initials Thereof		
ORC.12.9	Assigning Authority		
ORC.12.9.1	Namespace ID	NDA	Changeable Data
ORC.12.9.2	Universal ID		
ORC.12.9.3	Universal ID Type		
ORC.12.10	Name Type Code	L	Test Case Fixed Data

RXA : Pharmacy Administration Segment

Location	Data Element	Data	Categorization
RXA.1	**Give Sub-ID Counter**	0	IG Fixed Data
RXA.2	**Administration Sub-ID Counter**	1	IG Fixed Data
RXA.3	**Date/Time Start of Administration**		
RXA.3.1	Time	20120814	Changeable Data
RXA.4	**Date/Time End of Administration**		
RXA.4.1	Date/Time End of Administration		
RXA.5	**Administered Code**		
RXA.5.1	Identifier	52	Test Case Fixed Data
RXA.5.2	Text	Hep A	Changeable Data
RXA.5.3	Name of Coding System	CVX	IG Fixed Data
RXA.5.4	Alternate Identifier		
RXA.5.5	Alternate Text		
RXA.5.6	Name of Alternate Coding System		
RXA.6	**Administered Amount**	1	Test Case Fixed Data
RXA.7	**Administered Units (ml, etc)**		

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RXA.7.1	Identifier	mL	Test Case Fixed Data
RXA.7.2	Text	milliliters	Test Case Fixed Data
RXA.7.3	Name of Coding System	UCUM	Test Case Fixed Data
RXA.7.4	Alternate Identifier		
RXA.7.5	Alternate Text		
RXA.7.6	Name of Alternate Coding System		
RXA.9	**Administration Notes**		
RXA.9-CE	**Administration Notes**		
RXA.9-CE.1	Identifier	00	Test Case Fixed Data
RXA.9-CE.2	Text	New immunization record	Changeable Data
RXA.9-CE.3	Name of Coding	NIP001	IG Fixed Data
RXA.9-CE.4	Alternate Identifier		
RXA.9-CE.5	Alternate Text		
RXA.9-CE.6	Name of Alternate		
RXA.10	**Administering Provider**		
RXA.10.1	ID Number		
RXA.10.2	Family Name		
RXA.10.2.1	Surname		
RXA.10.3	Given Name		
RXA.10.4	Second and Further Given Names or Initials Thereof		
RXA.10.9	Assigning Authority		
RXA.10.9.1	Namespace ID		
RXA.10.9.2	Universal ID		
RXA.10.9.3	Universal ID Type		
RXA.11	**Administered-at Location**		
RXA.11.4	Facility		
RXA.11.4.1	Namespace ID	F28	Changeable Data
RXA.11.4.2	Universal ID		
RXA.11.4.3	Universal ID Type		
RXA.15	**Substance Lot Number**	I90FV	Test Case Fixed Data
RXA.16	**Substance Expiration Date**		
RXA.16.1	Time	20121214	Test Case Fixed Data
RXA.17	**Substance Manufacturer Name**		
RXA.17.1	Identifier	MSD	Test Case Fixed Data
RXA.17.2	Text	Merck and Co	Changeable Data
RXA.17.3	Name of Coding System	MVX	IG Fixed Data
RXA.17.4	Alternate Identifier		
RXA.17.5	Alternate Text		
RXA.17.6	Name of Alternate Coding System		
RXA.18	**Substance/Treatment Refusal Reason**		
RXA.18.1	Identifier		
RXA.18.2	Text		
RXA.18.3	Name of Coding System		
RXA.18.4	Alternate Identifier		
RXA.18.5	Alternate Text		
RXA.18.6	Name of Alternate Coding System		
RXA.20	**Completion Status**	CP	Test Case Fixed Data
RXA.21	**Action Code - RXA**	A	Test Case Fixed Data

RXR : Pharmacy Route

Location	Data Element	Data	Categorization
RXR.1	**Route**		
RXR.1.1	Identifier	IM	Test Case Fixed Data
RXR.1.2	Text	Intramuscular	Changeable Data
RXR.1.3	Name of Coding System	HL70162	IG Fixed Data
RXR.1.4	Alternate Identifier		
RXR.1.5	Alternate Text		
RXR.1.6	Name of Alternate Coding System		
RXR.2	**Administration Site**		
RXR.2.1	Identifier	RA	Test Case Fixed Data
RXR.2.2	Text	Right Arm	Changeable Data
RXR.2.3	Name of Coding	HL70163	IG Fixed Data
RXR.2.4	Alternate Identifier		
RXR.2.5	Alternate Text		
RXR.2.6	Name of Alternate		

OBX : Observation Results Segment

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	1	IG Fixed Data
OBX.2	**Value Type**	TS	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	29768-9	Test Case Fixed Data
OBX.3.2	Text	Date vaccine information statement published	Changeable Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier		
OBX.3.5	Alternate Text		
OBX.3.6	Name of Alternate Coding System		
OBX.4	**Observation Sub-ID**	2	Changeable Data
OBX.5-TS	**Date/Time of the Observation**		
OBX.5-TS.1	Time	20111025	Changeable Data
OBX.6	**Units**		
OBX.6.1	Identifier		
OBX.6.2	Text		
OBX.6.3	Name of the Coding System		
OBX.6.4	Alternate Identifier		
OBX.6.5	Alternate Text		
OBX.6.6	Name of Alternate Coding System		
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time		
OBX.17	**Observation Method**		
OBX.17.1	Identifier		
OBX.17.2	Text		
OBX.17.3	Name of the Coding System		
OBX.17.4	Alternate Identifier		
OBX.17.5	Alternate Text		
OBX.17.6	Name of Alternate Coding System		

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OBX : Observation Results Segment

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	2	IG Fixed Data
OBX.2	**Value Type**	CE	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	64994-7	Test Case Fixed Data
OBX.3.2	Text	Vaccine funding program eligibility category	Changeable Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier		
OBX.3.5	Alternate Text		
OBX.3.6	Name of Alternate Coding System		
OBX.4	**Observation Sub-ID**	1	Changeable Data
OBX.5-CE	**Observation Value**		
OBX.5-CE.1	Identifier	V01	Test Case Fixed Data
OBX.5-CE.2	Text	Not VFC eligible	Changeable Data
OBX.5-CE.3	Name of the Coding System	HL70064	IG Fixed Data
OBX.5-CE.4	Alternate Identifier		
OBX.5-CE.5	Alternate Text		
OBX.5-CE.6	Name of Alternate Coding System		
OBX.6	**Units**		
OBX.6.1	Identifier		
OBX.6.2	Text		
OBX.6.3	Name of the Coding System		
OBX.6.4	Alternate Identifier		
OBX.6.5	Alternate Text		
OBX.6.6	Name of Alternate Coding System		
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time	20120814	Changeable Data
OBX.17	**Observation Method**		
OBX.17.1	Identifier	VXC40	Test Case Fixed Data
OBX.17.2	Text	Eligibility captured at the immunization level	Changeable Data
OBX.17.3	Name of the Coding System	CDCPHINVS	IG Fixed Data
OBX.17.4	Alternate Identifier		
OBX.17.5	Alternate Text		
OBX.17.6	Name of Alternate Coding System		

OBX : Observation Results Segment

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	3	IG Fixed Data
OBX.2	**Value Type**	CE	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	30956-7	Test Case Fixed Data
OBX.3.2	Text	vaccine type	Changeable Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier		
OBX.3.5	Alternate Text		
OBX.3.6	Name of Alternate Coding System		
OBX.4	**Observation Sub-ID**	2	Changeable Data
OBX.5-CE	**Observation Value**		
OBX.5-CE.1	Identifier	85	Test Case Fixed Data
OBX.5-CE.2	Text	Hepatitis A	Changeable Data
OBX.5-CE.3	Name of the Coding System	CVX	IG Fixed Data
OBX.5-CE.4	Alternate Identifier		
OBX.5-CE.5	Alternate Text		
OBX.5-CE.6	Name of Alternate Coding System		
OBX.6	**Units**		
OBX.6.1	Identifier		
OBX.6.2	Text		
OBX.6.3	Name of the Coding System		
OBX.6.4	Alternate Identifier		
OBX.6.5	Alternate Text		
OBX.6.6	Name of Alternate Coding System		
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time		
OBX.17	**Observation Method**		
OBX.17.1	Identifier		
OBX.17.2	Text		
OBX.17.3	Name of the Coding System		
OBX.17.4	Alternate Identifier		
OBX.17.5	Alternate Text		
OBX.17.6	Name of Alternate Coding System		

OBX : Observation Results Segment

Location	Data Element	Data	Categorization
OBX.1	**Set ID - OBX**	4	IG Fixed Data
OBX.2	**Value Type**	TS	Test Case Fixed Data
OBX.3	**Observation Identifier**		
OBX.3.1	Identifier	29769-7	Test Case Fixed Data
OBX.3.2	Text	Date vaccine information statement presented	Changeable Data
OBX.3.3	Name of the Coding System	LN	Test Case Fixed Data
OBX.3.4	Alternate Identifier		
OBX.3.5	Alternate Text		
OBX.3.6	Name of Alternate Coding System		
OBX.4	**Observation Sub-ID**	2	Changeable Data
OBX.5-TS	**Date/Time of the Observation**		
OBX.5-TS.1	Time	20120814	Changeable Data
OBX.6	**Units**		
OBX.6.1	Identifier		
OBX.6.2	Text		
OBX.6.3	Name of the Coding System		
OBX.6.4	Alternate Identifier		
OBX.6.5	Alternate Text		
OBX.6.6	Name of Alternate Coding System		
OBX.11	**Observation Result Status**	F	Test Case Fixed Data
OBX.14	**Date/Time of the Observation**		
OBX.14.1	Time		
OBX.17	**Observation Method**		
OBX.17.1	Identifier		
OBX.17.2	Text		
OBX.17.3	Name of the Coding System		
OBX.17.4	Alternate Identifier		
OBX.17.5	Alternate Text		
OBX.17.6	Name of Alternate Coding System		

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