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ONC 2015 Test Plan

This test plan is to be used for the ONC 2015 Edition Certification Testing of HealthIT modules. All test cases are required to be executed. The test plan includes a set of Administered Immunization test cases (Administration Group) and a set of Query and Response test cases (Evaluated History and Forecast Group).

Domain : Immunization

Version : 1.0

Date : 2015-12-04 16:14:54

1. Administration Group

The administration group is design to test:

- (1) the creation of a broad scope of immunization messages including support for new and historical administrations, refusals, combination vaccines, patient consent and various observations including VIS and VFC.
- (2) the receipt and handling of various acknowledgement messages including application accept, application error, and application warning.

Test Cases consists of 2 steps:

- (1) creating immunization messages based on the Immunization Messaging Standard (Z22 Profile-VXU Message) and specific Test Data, and
- (2) receiving acknowledgment messages based on the Immunization Messaging Standard (Z23 Profile-ACK Message).

1.1. IZ-AD-1_Admin_Chlid

Maximally populated child administration

Test Story

| |
|--|
| Description |
| A child (infant) is seen at a clinic. Historical vaccinations are recorded and new vaccines are administered and documented. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| This test case assesses the ability of the EHR to create an administration message containing historical and new administrations for a child including next of kin, patient consent, VIS, funding source and VFC data. |
| Evaluation Criteria |
| |
| Notes for Testers |
| No Note |

1.1.1. IZ-AD-1.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

Description

A two month old male infant, Russell Clinton Richardson, is brought to a clinic for a well child visit by his mother Maria Elizabeth Richardson (nee Billington) and his father John William Richardson. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider, Wilma Thomas (physician ID 654) reviews the patient's vaccination history and determines that the child previously received Hepatitis B vaccine 1 day after birth and 1 month after birth. The staff member determines that the patient needs DTaP, Hib, IPV, Rotavirus and Pneumococcal vaccinations. Because of the patient's status of Native American, he qualifies for all Vaccine For Children (VFC) supplied vaccines under the status of VFC eligible - American Indian/Alaska Native. The parents are given 5 Vaccine Information Sheets (VIS) to review. After reading them, they agree that the child should receive all the vaccinations recommended. They also agree that the data should be shared once it is incorporated into the local IIS. Appropriate doses of DTaP/Hib/IPV (Pentacel), Rotavirus (RotaTeq) and Pneumococcal (Prevnar 13) are selected from the clinic's stock of publically funded vaccines. A clinician, Lily Jackson (ID 7824) prepares and administers the doses to the patient and then enters the data into the EHR and transmits it to the IIS.

Comments

No Comments

Pre Condition

No PreCondition

Post Condition

No PostCondition

Test Objectives

Create an administration message containing historical (using CVX) and new administrations (using NDC)

Support for next of kin

Support for patient consent

Support for VIS

Support for funding source

Support for VFC data.

Evaluation Criteria

Message Validation Report

Notes for Testers

The NIST context-based testing performs specific content validation depending on the Category/Qualifier combination assigned to the Data Elements in the message (see How to Interpret the Message Content Data Sheet section for more details in the NIST Testing Process Document). In some cases, in order to perform this type of validation the NIST Tool expects the segments/segment groups in the message to be sequenced in a certain order. The complexity of automatically evaluating specific content necessitates this approach. If the Message Validation

Result generated by the NIST Tool indicates content-related errors (designated by TCA-Test Case Assertion), the ATL may change the order of the segments/segment groups in the test message (created by the System-under Test-SUT) to match the Test Case once the message has been loaded into the Message Content Edit window of the Test Tool. These kinds of content-related errors do not imply a failure of the SUT nor a requirement to create the message with the segments/segment groups in a certain order (beyond the base message structure).

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------------------|------------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624073733.994-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-1.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|----------|-------------------------|------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 3123 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | Presence-Content |

| | | | |
|------------|--|----------------------------------|---------------------------------|
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Richardson | Presence-Content Indifferent |
| PID-5.2 | Given Name | Russell | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Clint | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Billington | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20150415 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 1002-5 | Value-Test Case Fixed |
| PID-10.2 | Text | American Indian or Alaska Native | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| | Telecommunication | | |

| | | | |
|----------|----------------------------------|------------------------|---------------------------------|
| PID-13.2 | Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5557690 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------|---------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 07 | Value-Test Case Fixed |
| PD1-11.2 | Text | Recall only - no calls | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150415 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1[*]**NK1 : Next of Kin / Associated Parties**

| Location | Data Element | Data | Categorization |
|-----------------|--|------------------|------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Richardson | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Maria | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5557690 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|------------------------------|
| NK1-1 | Set ID - NK1 | 2 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Richardson | Presence-Content Indifferent |
| NK1-2.2 | Given Name | John | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | William | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | CP | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5558299 | Presence-Content Indifferent |

ORC[*]**ORC : Common Order**

| Location | Data Element | Data | Categorization |
|-----------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 3140 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 38766 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|---------------------|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 8681 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 65138 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.3 | Given Name | Lily | Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7491 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 79539 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 9077 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31528 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 299 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 82668 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |

| | | | |
|----------|-----------------------|-----------------|---------------------------------|
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 49281-0560-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | Pentacel | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|------------------------------|
| RXA-10.3 | Given Name | Lily | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 526434 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150722 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

| Location | Data Element | Data | Categorization |
|------------|--|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4047-20 | Value-Test Case Fixed |
| RXA-5.2 | Text | RotaTeq | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 2.0 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|---------------------|------------------------------|
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 297961 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150916 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00005-1971-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | Prevnar 13 | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |

| | | | |
|------------|---------------------------------------|---------------|---------------------------------|
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 353480 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150729 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | PFR | Value-Test Case Fixed |
| RXA-17.2 | Text | Pfizer, Inc | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|-----------------------------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150416 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 45 | Value-Test Case Fixed |
| RXA-5.2 | Text | Hep B, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |

| | | | |
|------------|--|---------------------------|---------------------------|
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |

| | | | |
|----------|------------------------------------|----|-----------------------|
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|--------------------------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150515 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 45 | Value-Test Case Fixed |
| RXA-5.2 | Text | Hep B, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |

| | | | |
|------------|--|----|-----------------------|
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]**RXR : Pharmacy/Treatment Route**

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|-------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38288 | Value-Test Case Fixed |
| RXR-1.2 | Text | Oral | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | | NonPresence |
| RXR-2.2 | Text | | NonPresence |
| RXR-2.3 | Name of Coding System | | NonPresence |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 2530886983000172111108 | Value-Test Case Fixed |
| OBX-5.2 | Text | Polio VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 5 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300005911 _{Y2020} | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis B VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 6 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 7 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 5 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300003511070517 | Value-Test Case Fixed |
| OBX-5.2 | Text | Diphtheria/Tetanus/Pertussis (DTaP) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 8 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 5 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001961150415 | Value-Test Case Fixed |
| OBX-5.2 | Text | Rotavirus VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001581130227 | Value-Test Case Fixed |
| OBX-5.2 | Text | Pneumococcal Conjugate (PCV13) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdegs1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|---|---------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 Receiving Application | | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 Receiving Facility | | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 Date/Time Of Message | | | |
| | MSH-7.1 | Time | 20150624073733.994-0500 | Presence-System Generated |
| | MSH-9 Message Type | | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 Message Control ID | | NIST-IZ-AD-1.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 Processing ID | | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 Version ID | | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 Accept Acknowledgment Type | | ER | Value-Profile Fixed |
| | MSH-16 Application Acknowledgment Type | | AL | Value-Profile Fixed |
| | MSH-21 Message Profile Identifier | | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 Sending Responsible Organization | | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 3123 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Richardson | Presence-Content Indifferent |
| PID-5.2 | Given Name | Russell | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Clint | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Billington | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |

| | | | |
|------------|-------------------------------------|-------------------------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20150415 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 1002-5 | Value-Test Case Fixed |
| PID-10.2 | Text | American Indian or Alaska Native | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5557690 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death | N | Value-Test Case Fixed |

Indicator

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|-----------------|---|------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 07 | Value-Test Case Fixed |
| PD1-11.2 | Text | Recall only - no calls | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150415 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1[*]**NK1 : Next of Kin / Associated Parties**

| Location | Data Element | Data | Categorization |
|-----------------|--|------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Richardson | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Maria | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5557690 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|------------------------------|
| NK1-1 | Set ID - NK1 | 2 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Richardson | Presence-Content Indifferent |
| NK1-2.2 | Given Name | John | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | William | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 543 Blount Drive | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | CP | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5558299 | Presence-Content Indifferent |

ORC[*]**ORC : Common Order**

| Location | Data Element | Data | Categorization |
|-----------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 3140 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 38766 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|---------------------|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 8681 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 65138 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.3 | Given Name | Lily | Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7491 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 79539 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 9077 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31528 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 299 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 82668 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |

| | | | |
|----------|-----------------------|-----------------|---------------------------------|
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 49281-0560-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | Pentacel | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|------------------------------|
| RXA-10.3 | Given Name | Lily | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 526434 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150722 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

| Location | Data Element | Data | Categorization |
|------------|--|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4047-20 | Value-Test Case Fixed |
| RXA-5.2 | Text | RotaTeq | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 2.0 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|---------------------|------------------------------|
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 297961 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150916 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00005-1971-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | Prevnar 13 | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |

| | | | |
|------------|---------------------------------------|---------------|---------------------------------|
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 353480 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150729 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | PFR | Value-Test Case Fixed |
| RXA-17.2 | Text | Pfizer, Inc | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|-----------------------------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150416 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 45 | Value-Test Case Fixed |
| RXA-5.2 | Text | Hep B, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |

| | | | |
|------------|--|---------------------------|---------------------------|
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |

| | | | |
|----------|------------------------------------|----|-----------------------|
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|--------------------------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150515 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 45 | Value-Test Case Fixed |
| RXA-5.2 | Text | Hep B, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |

| | | | |
|------------|--|----|-----------------------|
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]**RXR : Pharmacy/Treatment Route**

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|-------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38288 | Value-Test Case Fixed |
| RXR-1.2 | Text | Oral | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | | NonPresence |
| RXR-2.2 | Text | | NonPresence |
| RXR-2.3 | Name of Coding System | | NonPresence |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 2530886983000172111108 | Value-Test Case Fixed |
| OBX-5.2 | Text | Polio VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 5 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300005911 _{Y2020} | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis B VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 6 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 7 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 5 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300003511070517 | Value-Test Case Fixed |
| OBX-5.2 | Text | Diphtheria/Tetanus/Pertussis (DTaP) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 8 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 5 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001961150415 | Value-Test Case Fixed |
| OBX-5.2 | Text | Rotavirus VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V04 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - American Indian/Alaska Native | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001581130227 | Value-Test Case Fixed |
| OBX-5.2 | Text | Pneumococcal Conjugate (PCV13) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdegs1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Russell Clint Richardson |
| Mother's Maiden Name | Billington |
| ID Number | 3123 |
| Date/Time of Birth | 04/15/2015 |
| Administrative Sex | Male |
| Patient Address | 543 Blount Drive Bozeman MT 59715 USA |
| Local Number | (406)555-7690 |
| Race | American Indian or Alaska Native |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 04/15/2015 |
| Publicity Code | Recall only - no calls |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party[*]

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Maria Elizabeth Richardson |
| Relationship | Mother |
| Address | 543 Blount Drive Bozeman MT 59715 USA |
| Phone Number | (406)555-7690 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | John William Richardson |
| Relationship | Father |
| Address | 543 Blount Drive Bozeman MT 59715 USA |
| Phone Number | (406)555-8299 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | Pentacel |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 526434 |
| Substance Expiration Date | 07/22/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Polio VIS |
| Date Vis Presented | 06/24/2015 |
| Document Type | Hepatitis B VIS |
| Date Vis Presented | 06/24/2015 |
| Document Type | Diphtheria/Tetanus/Pertussis (DTaP) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | RotaTeq |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 2.0 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 297961 |
| Substance Expiration Date | 09/16/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Oral |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Rotavirus VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | Prevnar 13 |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 353480 |
| Substance Expiration Date | 07/29/2015 |
| Substance Manufacturer Name | Pfizer, Inc |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Pneumococcal Conjugate (PCV13) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|--------------------------------|
| Administered Vaccine | Hep B, unspecified formulation |
| Date/Time Start of Administration | 04/16/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Vaccine Administration Information

| Element | Data |
|------------------------------------|--------------------------------|
| Administered Vaccine | Hep B, unspecified formulation |
| Date/Time Start of Administration | 05/15/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Russell Clint Richardson |
| Mother's Maiden Name | Billington |
| ID Number | 3123 |
| Date/Time of Birth | 04/15/2015 |
| Administrative Sex | Male |
| Patient Address | 543 Blount Drive Bozeman MT 59715 USA |
| Local Number | (406)555-7690 |
| Race | American Indian or Alaska Native |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 04/15/2015 |
| Publicity Code | Recall only - no calls |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party[*]

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Maria Elizabeth Richardson |
| Relationship | Mother |
| Address | 543 Blount Drive Bozeman MT 59715 USA |
| Phone Number | (406)555-7690 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | John William Richardson |
| Relationship | Father |
| Address | 543 Blount Drive Bozeman MT 59715 USA |
| Phone Number | (406)555-8299 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | Pentacel |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 526434 |
| Substance Expiration Date | 07/22/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Polio VIS |
| Date Vis Presented | 06/24/2015 |
| Document Type | Hepatitis B VIS |
| Date Vis Presented | 06/24/2015 |
| Document Type | Diphtheria/Tetanus/Pertussis (DTaP) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | RotaTeq |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 2.0 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 297961 |
| Substance Expiration Date | 09/16/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Oral |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Rotavirus VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | Prevnar 13 |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 353480 |
| Substance Expiration Date | 07/29/2015 |
| Substance Manufacturer Name | Pfizer, Inc |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|--|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - American Indian/Alaska Native |
| Document Type | Pneumococcal Conjugate (PCV13) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|--------------------------------|
| Administered Vaccine | Hep B, unspecified formulation |
| Date/Time Start of Administration | 04/16/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Vaccine Administration Information

| Element | Data |
|------------------------------------|--------------------------------|
| Administered Vaccine | Hep B, unspecified formulation |
| Date/Time Start of Administration | 05/15/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

1.1.2. IZ-AD-1.2_Receive_ACK_Z23

Tests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| No Test Objectives |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624073734.034-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-1.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-1.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624073734.034-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-1.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-1.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-1_Admin_Chlid |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement |
|---|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. |

1.2. IZ-AD-2_Admin_Adult

Adult administration

Test Story

| |
|---|
| Description |
| An adult is seen at a clinic. Historical vaccinations are recorded and new vaccines are administered and documented. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| This test case assesses the ability of the EHR to create an administration message for an adult containing historical and new administrations including VIS and not eligible VFC. |
| Evaluation Criteria |
| |
| Notes for Testers |
| No Note |

1.2.1. IZ-AD-2.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|---|
| Description |
| A 32 year old female, Elise Wong, visits a clinic for a well woman visit. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider, Wilma Thomas (physician ID 654) reviews the patient's vaccination history and determines that Elise has received her influenza vaccinations on 10/12/2014 and 11/12/2013, but is in need of a tetanus booster. Because of the patient's age she does not qualify for Vaccine For Children (VFC) supplied vaccine. Elise is given the appropriate Vaccine Information Sheet (VIS) to review. After reading it, she agrees to receive the recommended vaccination. She also agrees that the data should be shared once it is incorporated into the local IIS. An appropriate dose of Tdap (TENIVAC) is selected from the clinic's stock of privately funded vaccines. A clinician, Lily Jackson (ID 7824) prepares and administers the doses to the patient and then enters the data into the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for a "not eligible" VFC. Support for both phone number and e-mail. |
| Evaluation Criteria |
| Message Validation Report |
| Notes for Testers |
| No Note |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |

| | | | | |
|--|----------|----------------------------------|-----------------------------|------------------------------|
| | MSH-3.2 | Universal ID | | Indifferent |
| | MSH-3.3 | Universal ID Type | | Indifferent |
| | MSH-4 | Sending Facility | | |
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150624084727.655-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-2.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence- |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6 | Assigning Authority | | Configuration |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 90012 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Wong | Presence-Content Indifferent |
| PID-5.2 | Given Name | Elise | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |

| | | | |
|-------------|-------------------------------------|-----------------------|---------------------------------|
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19830615 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2028-9 | Value-Test Case Fixed |
| PID-10.2 | Text | Asian | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 9200 Wellington Trail | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5557896 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | Internet | Value-Test Case Fixed |
| PID-13[2].4 | Email Address | Elise.Wong@isp.com | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |

| | | | |
|----------|-----------------------------|------------------------|---------------------------|
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 19830615 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 4422 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-3.1 | Entity Identifier | 13696 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| | Identifier Type | | Value-Test Case |

| | | | |
|-----------|-----------------------|-----------------|------------------------------|
| ORC-12.13 | Code | MD | Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 6139 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 38760 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|--|-----------------|------------------------------|
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7600 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 35508 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.1 | ID Number | 7824 | Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 49281-0215-88 | Value-Test Case Fixed |
| RXA-5.2 | Text | TENIVAC | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|----------------|------------------------------|
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 315841 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151216 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | PMC | Value-Test Case Fixed |
| RXA-17.2 | Text | Sanofi Pasteur | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20141012 | Presence-Content Indifferent |

| | | | |
|------------|--|--|---------------------------|
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 88 | Value-Test Case Fixed |
| RXA-5.2 | Text | influenza, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot | | Indifferent |

| | | | |
|----------|-------------------------------------|----|-----------------------|
| RXA-16 | Number Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------------------------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20131112 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 88 | Value-Test Case Fixed |
| RXA-5.2 | Text | influenza, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |

| | | | |
|------------|--|---------------------------|---------------------------|
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case |

| | | | |
|--------|-------------------|---|-----------------------------------|
| RXA-21 | Action Code - RXA | A | Fixed Value-Test Case Fixed |
|--------|-------------------|---|-----------------------------------|

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300028811 ^{Y50224} | Value-Test Case Fixed |
| OBX-5.2 | Text | Tetanus/Diphtheria (Td) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|---|---------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 Receiving Application | | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 Receiving Facility | | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 Date/Time Of Message | | | |
| | MSH-7.1 | Time | 20150624084727.655-0500 | Presence-System Generated |
| | MSH-9 Message Type | | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 Message Control ID | | NIST-IZ-AD-2.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 Processing ID | | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 Version ID | | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 Accept Acknowledgment Type | | ER | Value-Profile Fixed |
| | MSH-16 Application Acknowledgment Type | | AL | Value-Profile Fixed |
| | MSH-21 Message Profile Identifier | | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 Sending Responsible Organization | | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 90012 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Wong | Presence-Content Indifferent |
| PID-5.2 | Given Name | Elise | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |

| | | | |
|-------------|-------------------------------------|-----------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19830615 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2028-9 | Value-Test Case Fixed |
| PID-10.2 | Text | Asian | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 9200 Wellington Trail | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5557896 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | Internet | Value-Test Case Fixed |
| PID-13[2].4 | Email Address | Elise.Wong@isp.com | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or | Presence-Test Case |

| | | | |
|----------|-----------------------------|------------------|-------------------------------|
| PID-22.3 | Name of Coding System | Latino CDCREC | Proper Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 19830615 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 4422 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 13696 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |

| | | | |
|------------|--|-----------|---------------------------------|
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| | | | Presence-Content |

| | | | |
|----------|-----------------------|-----------------|---------------------------------|
| ORC-17.1 | Identifier | NISTEHRFAC | Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 6139 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 38760 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|---------------------|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7600 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 35508 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- | 1 | Value-Profile Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| | ID Counter | | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 49281-0215-88 | Value-Test Case Fixed |
| RXA-5.2 | Text | TENIVAC | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|------------------------------------|----------------|------------------------------|
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 315841 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151216 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | PMC | Value-Test Case Fixed |
| RXA-17.2 | Text | Sanofi Pasteur | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20141012 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 88 | Value-Test Case Fixed |
| | | influenza, | |

| | | | | |
|--|------------|--|---------------------------|---------------------------|
| | RXA-5.2 | Text | unspecified formulation | Presence-Test Case Proper |
| | RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| | RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| | RXA-7 | Administered Units | | |
| | RXA-7.1 | Identifier | | NonPresence |
| | RXA-7.2 | Text | | NonPresence |
| | RXA-7.3 | Name of Coding System | | NonPresence |
| | RXA-9 | Administration Notes | | |
| | RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| | RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| | RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| | RXA-10 | Administering Provider | | |
| | RXA-10.1 | ID Number | | Indifferent |
| | RXA-10.2 | Family Name | | |
| | RXA-10.2.1 | Surname | | Indifferent |
| | RXA-10.3 | Given Name | | Indifferent |
| | RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| | RXA-10.9 | Assigning Authority | | |
| | RXA-10.9.1 | Namespace ID | | Indifferent |
| | RXA-10.9.2 | Universal ID | | Indifferent |
| | RXA-10.9.3 | Universal ID Type | | Indifferent |
| | RXA-10.10 | Name Type Code | | Indifferent |
| | RXA-10.13 | Identifier Type Code | | Indifferent |
| | RXA-11 | Administered-at Location | | |
| | RXA-11.4 | Facility | | |
| | RXA-11.4.1 | Namespace ID | | Indifferent |
| | RXA-11.4.2 | Universal ID | | Indifferent |
| | RXA-11.4.3 | Universal ID Type | | Indifferent |
| | RXA-15 | Substance Lot Number | | Indifferent |
| | RXA-16 | Substance Expiration Date | | |
| | RXA-16.1 | Time | | Indifferent |

| | | | |
|----------|---------------------------------------|----|--------------------------|
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|--|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20131112 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 88 | Value-Test Case Fixed |
| RXA-5.2 | Text | influenza, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |

| | | | |
|------------|--|----|-----------------------|
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830002881150224 | Value-Test Case Fixed |
| OBX-5.2 | Text | Tetanus/Diphtheria (Td) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|---|
| Patient Name | Elise Wong |
| Mother's Maiden Name | |
| ID Number | 90012 |
| Date/Time of Birth | 06/15/1983 |
| Administrative Sex | Female |
| Patient Address | 9200 Wellington Trail Bozeman MT 59715 USA |
| Local Number | (406)555-7896 |
| Email | Elise.Wong@isp.com |
| Race | Asian |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/15/1983 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | TENIVAC |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 315841 |
| Substance Expiration Date | 12/16/2015 |
| Substance Manufacturer Name | Sanofi Pasteur |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-----------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Tetanus/Diphtheria (Td) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|------------------------------------|
| Administered Vaccine | influenza, unspecified formulation |
| Date/Time Start of Administration | 10/12/2014 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Vaccine Administration Information

| Element | Data |
|------------------------------------|------------------------------------|
| Administered Vaccine | influenza, unspecified formulation |
| Date/Time Start of Administration | 11/12/2013 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Patient Information

| Element | Data |
|--------------------------|---|
| Patient Name | Elise Wong |
| Mother's Maiden Name | |
| ID Number | 90012 |
| Date/Time of Birth | 06/15/1983 |
| Administrative Sex | Female |
| Patient Address | 9200 Wellington Trail Bozeman MT 59715 USA |
| Local Number | (406)555-7896 |
| Email | Elise.Wong@isp.com |
| Race | Asian |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/15/1983 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | TENIVAC |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 315841 |
| Substance Expiration Date | 12/16/2015 |
| Substance Manufacturer Name | Sanofi Pasteur |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-----------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Tetanus/Diphtheria (Td) VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|------------------------------------|
| Administered Vaccine | influenza, unspecified formulation |
| Date/Time Start of Administration | 10/12/2014 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Vaccine Administration Information

| Element | Data |
|------------------------------------|------------------------------------|
| Administered Vaccine | influenza, unspecified formulation |
| Date/Time Start of Administration | 11/12/2013 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

1.2.2. IZ-AD-2.2_Receive_ACK_Z23

Tests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624084727.669-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-2.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-2.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624084727.669-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-2.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-2.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-2_Admin_Adult |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement |
|---|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. |

1.3. IZ-AD-3_No_Consent

Child administration without consent for sharing. Also test the ability to send the patient's full first and middle names.

Test Story

Description

A child is seen at a clinic. A new vaccine is administered and documented but the information is not to be shared by the IIS.

Comments

No Comments

Pre Condition

No PreCondition

Post Condition

No PostCondition

Test Objectives

This test case assesses the ability of the EHR to create an administration message for a child containing a new administration but an indication that the data should not be shared. Also test the ability of the EHR to support full first and middle names.

Evaluation Criteria

Notes for Testers

No Note

1.3.1. IZ-AD-3.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

Description

An eleven and a half year old female, Katherine Mackenzie Benton, is brought to a clinic for a third and final dose of HPV vaccine. She is accompanied by her mother Kari Michelle Benton (nee Jones). A clinic staff member collects basic patient demographic information including name, date of birth and sex. The mother is given the appropriate Vaccine Information Sheet (VIS) to review. After reading it, the mother agrees that the child should receive the HPV vaccine, but she chooses not to share the data once it is incorporated into the local IIS. A clinic provider, Wilma Thomas (physician ID 654) places an order for the vaccination. While the patient is covered by insurance, the plan does not cover this vaccination and she qualifies for Vaccine For Children (VFC) supplied vaccines under the status of VFC eligible - Underinsured. An appropriate dose of HPV (CERVARIX) is selected from the clinic's stock of publically funded vaccines. A clinician, Lily Jackson (ID 7824) prepares and administers the dose to the patient and then enters the data into the EHR and transmits it to the IIS.

Comments

No Comments

Pre Condition

No PreCondition

Post Condition

No PostCondition

Test Objectives

Support for no consent given

Support for a full middle name

Support for a long first and middle name

Evaluation Criteria

Message Validation Report

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |

| | | | |
|----------|---------------------------------|-----------------------------|------------------------------|
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.804-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-3.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible | | |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|-------------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 89778 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Benton | Presence-Content Indifferent |
| PID-5.2 | Given Name | Katherine | Presence Length-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Mackenzie | Presence Length-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|----------------------------------|------------------------|---------------------------------|
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Jones | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20031221 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5554019 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth | N | Value-Test Case Fixed |

| | Indicator | | |
|----------|-----------------------------|---|-----------------------|
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20031221 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Benton | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Kari | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Michelle | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5554019 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5237 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31309 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0830-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | CERVARIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 795441 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151223 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V05 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - Underinsured | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000731110503 | Value-Test Case Fixed |
| OBX-5.2 | Text | Human papillomavirus Vaccine (Cervarix) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|---|---------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 Receiving Application | | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 Receiving Facility | | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 Date/Time Of Message | | | |
| | MSH-7.1 | Time | 20150624093847.804-0500 | Presence-System Generated |
| | MSH-9 Message Type | | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 Message Control ID | | NIST-IZ-AD-3.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 Processing ID | | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 Version ID | | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 Accept Acknowledgment Type | | ER | Value-Profile Fixed |
| | MSH-16 Application Acknowledgment Type | | AL | Value-Profile Fixed |
| | MSH-21 Message Profile Identifier | | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 Sending Responsible Organization | | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|--|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 89778 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Benton | Presence-Content Indifferent |
| PID-5.2 | Given Name | Katherine | Presence Length-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Mackenzie | Presence Length-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Jones | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |

| | | | |
|------------|-------------------------------------|---------------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20031221 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5554019 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death | N | Value-Test Case Fixed |

Indicator

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|-----------------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20031221 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Benton | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Kari | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Michelle | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5554019 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5237 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31309 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0830-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | CERVARIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 795441 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151223 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V05 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - Underinsured | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000731110503 | Value-Test Case Fixed |
| OBX-5.2 | Text | Human papillomavirus Vaccine (Cervarix) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Katherine Mackenzie Benton |
| Mother's Maiden Name | Jones |
| ID Number | 89778 |
| Date/Time of Birth | 12/21/2003 |
| Administrative Sex | Female |
| Patient Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Local Number | (406)555-4019 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 12/21/2003 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Kari Michelle Benton |
| Relationship | Mother |
| Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Phone Number | (406)555-4019 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | CERVARIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 795441 |
| Substance Expiration Date | 12/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - Underinsured |
| Document Type | Human papillomavirus Vaccine (Cervarix) VIS |
| Date Vis Presented | 06/24/2015 |

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Katherine Mackenzie Benton |
| Mother's Maiden Name | Jones |
| ID Number | 89778 |
| Date/Time of Birth | 12/21/2003 |
| Administrative Sex | Female |
| Patient Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Local Number | (406)555-4019 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 12/21/2003 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Kari Michelle Benton |
| Relationship | Mother |
| Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Phone Number | (406)555-4019 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | CERVARIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 795441 |
| Substance Expiration Date | 12/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - Underinsured |
| Document Type | Human papillomavirus Vaccine (Cervarix) VIS |
| Date Vis Presented | 06/24/2015 |

1.3.2. IZ-AD-3.2_Receive_ACK_Z23

Tests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|-----------------------------|---------------------|-------------|-----------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.806-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-3.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-3.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.806-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-3.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-3.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-3_No_Consent |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement | |
|---|--|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. | |

1.4. IZ-AD-4_Delete_Record

Child deleted administration

Test Story

| |
|---|
| Description |
| A child is seen at a clinic. A previously documented vaccination is deleted due to user error. |
| Comments |
| No Comments |
| Pre Condition |
| The IZ-AD-3_No_Consent test case has been successfully completed. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| This test case assesses the ability of the EHR to create a delete message for a previously sent administration. |
| Evaluation Criteria |
| |
| Notes for Testers |
| No Note |

1.4.1. IZ-AD-4.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|---|
| Description |
| After administering an HPV vaccination to the eleven and a half year old female Katherine Benton the clinician, Lily Jackson (ID 7824) realizes that the vaccination was documented on the incorrect patient chart. She deletes the vaccination from the patient chart and transmits the change to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| The IZ-AD-3.1_Send_V04_Z22 test step has been successfully completed. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for sending delete notification. |
| Evaluation Criteria |
| Message Validation Report |
| Notes for Testers |
| No Note |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |

| | | | |
|------------|----------------------------------|-----------------------------|------------------------------|
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.804-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-4.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.10 | Code Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 89778 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Benton | Presence-Content Indifferent |
| PID-5.2 | Given Name | Katherine | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Mackenzie | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Jones | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20031221 | Presence-Content |

| | | | |
|------------|----------------------------------|------------------------|-----------------------------------|
| PID-8 | Administrative Sex | F | Indifferent Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5554019 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20031221 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Benton | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Kari | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Michelle | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5554019 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5237 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31309 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0830-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | CERVARIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 795441 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151223 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | D | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V05 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - Underinsured | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000731110503 | Value-Test Case Fixed |
| OBX-5.2 | Text | Human papillomavirus Vaccine (Cervarix) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|------------|----------------------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150624093847.804-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-4.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 89778 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Benton | Presence-Content Indifferent |
| PID-5.2 | Given Name | Katherine | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Mackenzie | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Jones | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |

| | | | |
|------------|-------------------------------------|---------------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20031221 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5554019 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death | N | Value-Test Case Fixed |

Indicator

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|-----------------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20031221 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Benton | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Kari | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Michelle | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 89 West 21st Ave | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5554019 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5237 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31309 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0830-05 | Value-Test Case Fixed |
| RXA-5.2 | Text | CERVARIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|-----------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 795441 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151223 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | D | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC50 | Value-Test Case Fixed |
| OBX-5.2 | Text | Public | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V05 | Value-Test Case Fixed |
| OBX-5.2 | Text | VFC Eligible - Underinsured | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000731110503 | Value-Test Case Fixed |
| OBX-5.2 | Text | Human papillomavirus Vaccine (Cervarix) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Katherine Mackenzie Benton |
| Mother's Maiden Name | Jones |
| ID Number | 89778 |
| Date/Time of Birth | 12/21/2003 |
| Administrative Sex | Female |
| Patient Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Local Number | (406)555-4019 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 12/21/2003 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Kari Michelle Benton |
| Relationship | Mother |
| Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Phone Number | (406)555-4019 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | CERVARIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 795441 |
| Substance Expiration Date | 12/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Delete |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - Underinsured |
| Document Type | Human papillomavirus Vaccine (Cervarix) VIS |
| Date Vis Presented | 06/24/2015 |

Patient Information

| Element | Data |
|--------------------------|---------------------------------------|
| Patient Name | Katherine Mackenzie Benton |
| Mother's Maiden Name | Jones |
| ID Number | 89778 |
| Date/Time of Birth | 12/21/2003 |
| Administrative Sex | Female |
| Patient Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Local Number | (406)555-4019 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 12/21/2003 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|---------------------------------------|
| Name | Kari Michelle Benton |
| Relationship | Mother |
| Address | 89 West 21st Ave Bozeman MT 59715 USA |
| Phone Number | (406)555-4019 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | CERVARIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 795441 |
| Substance Expiration Date | 12/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Delete |
| Route | Intramuscular |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Public |
| Vaccine Funding Program Eligibility | VFC Eligible - Underinsured |
| Document Type | Human papillomavirus Vaccine (Cervarix) VIS |
| Date Vis Presented | 06/24/2015 |

1.4.2. IZ-AD-4.2_Receive_ACK_Z23

Tests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|-----------------------------|---------------------|-------------|-----------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.806-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-4.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-4.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.806-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-4.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-4.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-4_Delete_Record |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement |
|---|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. |

1.5. IZ-AD-5_Refusal

Child administration with refusal. Also test multiple birth indicator.

Test Story

| |
|--|
| Description |
| The second child of a set of twins is seen at a clinic. New vaccinations are administered but an additional one is refused by the parents. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| This test case assesses the ability of the EHR to create an administration message for child whose parents have refused an immunization and to support multiple birth indicator and order. |
| Evaluation Criteria |
| |
| Notes for Testers |
| No Note |

1.5.1. IZ-AD-5.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

Description

A 1 year old male, Tyler Owen Banks, is brought to a clinic for a well child visit. He is accompanied by his father Karl Leonard Banks. Tyler's twin brother, born 5 minutes before Tyler, was not able to make it to the clinic. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider, Wilma Thomas (physician ID 654) reviews the patient's vaccination history and determines that the child requires Hib, Hep A, MMR and Varicella vaccinations. The child is covered by insurance and does not qualify for all Vaccine For Children (VFC) supplied vaccines. The father is given the appropriate Vaccine Information Sheets (VIS) to review. After reading them, the father agrees that the child should receive the Hib, Hep A and MMR vaccines but refuses the Varicella vaccine. He also agrees that the data should be shared once it is incorporated into the local IIS. Appropriate doses of Hib (HIBERIX), Hep A (VAQTA) and MMR (M-M-R II) are selected from the clinic's stock of privately funded vaccines. A clinician, Lily Jackson (ID 456) prepares and administers the doses to the patient and then enters the data into the EHR and transmits it to the IIS.

Comments

No Comments

Pre Condition

No PreCondition

Post Condition

No PostCondition

Test Objectives

Support for an immunization refusal
Support for multiple birth indicator and order

Evaluation Criteria

Message Validation Report

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |

| | | | |
|----------|---------------------------------|-----------------------------|------------------------------|
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.808-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-5.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible | | |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 8891 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Banks | Presence-Content Indifferent |
| PID-5.2 | Given Name | Tyler | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Owen | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|----------------------------------|------------------------|---------------------------------|
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20140602 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5555835 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | Y | Value-Test Case Fixed |

| | | | |
|----------|-----------------------------|---|-----------------------|
| PID-25 | Birth Order | 2 | Value-Test Case Fixed |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20040602 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Banks | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Karl | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Leonard | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5555835 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
|----------|--------------|------|----------------|

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5645 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 22515 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5027 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 12128 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7239 | Presence-Content Indifferent |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 50588 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | | Indifferent |
| ORC-2.2 | Namespace ID | | Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 9999 | Value-Profile Fixed |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0806-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | HIBERIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 328734 | Presence-Content Indifferent |

| | | | |
|----------|------------------------------------|-----------------|------------------------------|
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150923 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4095-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | VAQTA | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 208940 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20160120 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| | | | Presence-Test Case |

| | | | |
|----------|------------------------------------|---------------------|-----------------------|
| RXA-17.2 | Text | Merck and Co., Inc. | Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4681-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | M-M-R II | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |

| | | | |
|------------|--|---------------------|---------------------------------|
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 134301 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151028 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |

| | | | |
|--------|-------------------|----|-----------------------|
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|-----------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 21 | Value-Test Case Fixed |
| RXA-5.2 | Text | varicella | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | Indifferent |
| RXA-9.2 | Text | | Indifferent |
| RXA-9.3 | Name of Coding System | | Indifferent |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| | Universal ID | | |

| | | | |
|------------|------------------------------------|-------------------|---------------------------|
| RXA-10.9.3 | Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-18.2 | Text | Parental decision | Presence-Test Case Proper |
| RXA-18.3 | Name of Coding System | NIP002 | Value-Profile Fixed |
| RXA-20 | Completion Status | RE | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]**RXR : Pharmacy/Treatment Route**

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38299 | Value-Test Case Fixed |
| RXR-1.2 | Text | Subcutaneous | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830002641141022 | Value-Test Case Fixed |
| OBX-5.2 | Text | Multiple Vaccines VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000421111025 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis A VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | |
| OBX-5.2 | Text | Not VFC Eligible | |
| OBX-5.3 | Name of Coding System | HL70064 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300012711120420 | |
| OBX-5.2 | Text | Measles/Mumps/Rubella VIS | |
| OBX-5.3 | Name of Coding System | cdcgslvis | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |

| | | | |
|------------|----------------------------------|-----------------------------|------------------------------|
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.808-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-5.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |

| | | | |
|------------|---------------------------------------|------------|----------------------------|
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence- Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 8891 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Banks | Presence-Content Indifferent |
| PID-5.2 | Given Name | Tyler | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Owen | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| | | | Presence-Content |

| | | | |
|------------|----------------------------------|------------------------|------------------------------|
| PID-7.1 | Time | 20140602 | Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5555835 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | Y | Value-Test Case Fixed |
| PID-25 | Birth Order | 2 | Value-Test Case Fixed |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20040602 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Banks | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Karl | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Leonard | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5555835 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
|----------|--------------|------|----------------|

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5645 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 22515 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5027 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 12128 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7239 | Presence-Content Indifferent |

| | | | | |
|--|------------|--|--------------|---------------------------------|
| | ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| | ORC-2.3 | Universal ID | | Indifferent |
| | ORC-2.4 | Universal ID Type | | Indifferent |
| | ORC-3 | Filler Order Number | | |
| | ORC-3.1 | Entity Identifier | 50588 | Presence-Content Indifferent |
| | ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| | ORC-3.3 | Universal ID | | Indifferent |
| | ORC-3.4 | Universal ID Type | | Indifferent |
| | ORC-10 | Entered By | | |
| | ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| | ORC-10.2 | Family Name | | |
| | ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| | ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| | ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| | ORC-10.9 | Assigning Authority | | |
| | ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| | ORC-10.9.2 | Universal ID | | Indifferent |
| | ORC-10.9.3 | Universal ID Type | | Indifferent |
| | ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| | ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| | ORC-12 | Ordering Provider | | |
| | ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| | ORC-12.2 | Family Name | | |
| | ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| | ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| | ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| | ORC-12.9 | Assigning Authority | | |
| | ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| | ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | | Indifferent |
| ORC-2.2 | Namespace ID | | Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 9999 | Value-Profile Fixed |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0806-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | HIBERIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 328734 | Presence-Content Indifferent |

| | | | |
|----------|------------------------------------|-----------------|------------------------------|
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150923 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4095-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | VAQTA | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 208940 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20160120 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| | | | Presence-Test Case |

| | | | |
|----------|------------------------------------|---------------------|-----------------------|
| RXA-17.2 | Text | Merck and Co., Inc. | Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4681-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | M-M-R II | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |

| | | | |
|------------|--|---------------------|---------------------------------|
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 134301 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151028 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |

| | | | |
|--------|-------------------|----|-----------------------|
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|-----------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 21 | Value-Test Case Fixed |
| RXA-5.2 | Text | varicella | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | Indifferent |
| RXA-9.2 | Text | | Indifferent |
| RXA-9.3 | Name of Coding System | | Indifferent |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| | Universal ID | | |

| | | | |
|------------|------------------------------------|-------------------|---------------------------|
| RXA-10.9.3 | Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-18.2 | Text | Parental decision | Presence-Test Case Proper |
| RXA-18.3 | Name of Coding System | NIP002 | Value-Profile Fixed |
| RXA-20 | Completion Status | RE | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]**RXR : Pharmacy/Treatment Route**

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|-----------------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38299 | Value-Test Case Fixed |
| RXR-1.2 | Text | Subcutaneous | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830002641141022 | Value-Test Case Fixed |
| OBX-5.2 | Text | Multiple Vaccines VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830000421111025 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis A VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | |
| OBX-5.2 | Text | Not VFC Eligible | |
| OBX-5.3 | Name of Coding System | HL70064 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300012711120420 | |
| OBX-5.2 | Text | Measles/Mumps/Rubella VIS | |
| OBX-5.3 | Name of Coding System | cdcgslvis | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Tyler Owen Banks |
| Mother's Maiden Name | |
| ID Number | 8891 |
| Date/Time of Birth | 06/02/2014 |
| Administrative Sex | Male |
| Patient Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Local Number | (406)555-5835 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | Yes |
| Birth Order | 2 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/02/2004 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Karl Leonard Banks |
| Relationship | Father |
| Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Phone Number | (406)555-5835 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | HIBERIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 328734 |
| Substance Expiration Date | 09/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-----------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Multiple Vaccines VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | VAQTA |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 208940 |
| Substance Expiration Date | 01/20/2016 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis A VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | M-M-R II |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 134301 |
| Substance Expiration Date | 10/28/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Subcutaneous |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Measles/Mumps/Rubella VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-------------------|
| Administered Vaccine | varicella |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | Parental decision |
| Completion Status | Refused |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Tyler Owen Banks |
| Mother's Maiden Name | |
| ID Number | 8891 |
| Date/Time of Birth | 06/02/2014 |
| Administrative Sex | Male |
| Patient Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Local Number | (406)555-5835 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | Yes |
| Birth Order | 2 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/02/2004 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Karl Leonard Banks |
| Relationship | Father |
| Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Phone Number | (406)555-5835 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | HIBERIX |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 328734 |
| Substance Expiration Date | 09/23/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-----------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Multiple Vaccines VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | VAQTA |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 208940 |
| Substance Expiration Date | 01/20/2016 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis A VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | M-M-R II |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 134301 |
| Substance Expiration Date | 10/28/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Subcutaneous |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Measles/Mumps/Rubella VIS |
| Date Vis Presented | 06/24/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-------------------|
| Administered Vaccine | varicella |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | Parental decision |
| Completion Status | Refused |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

1.5.2. IZ-AD-5.2_Receive_ACK_Z23

Tests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.822-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-5.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-5.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.822-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-5.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-5.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-5_Refusal |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement | |
|---|--|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. | |

1.6. IZ-AD-6_Update_Record

Child updated administration

Test Story

| |
|---|
| Description |
| A child is seen at a clinic. A previously documented vaccination is updated to correct inaccurate information.. |
| Comments |
| No Comments |
| Pre Condition |
| The IZ-AD-5_Refusal test case has been successfully completed. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| This test case asses the ability of the EHR to create an update message for a previously sent administration. |
| Evaluation Criteria |
| |
| Notes for Testers |
| No Note |

1.6.1. IZ-AD-6.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|--|
| Description |
| After documenting vaccinations for Tyler Owen Banks the clinician, Lily Jackson (ID 456) recognizes that an error was made during data entry for the Hepatitis A vaccine. The Lot Number was entered incorrectly. She updates the data in the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| The IZ-AD-5.1_Send_V04_Z22 test step has been successfully completed. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for sending an update notification. |
| Evaluation Criteria |
| Message Validation Report. |
| Notes for Testers |
| Lot number changed from 208940 in Test Case 5 to 208490 in Test Case 6. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |

| | | | |
|------------|------------------------------------|-----------------------------|------------------------------|
| MSH-5 | Receiving Application Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.1 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.808-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-6.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 8891 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Banks | Presence-Content Indifferent |
| PID-5.2 | Given Name | Tyler | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Owen | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20140602 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |

| | | | |
|--------------------|----------------------------------|------------------------|------------------------------|
| PID-10 PID-10.1 | Race Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | Indifferent |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5555835 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | Y | Value-Test Case Fixed |
| PID-25 | Birth Order | 2 | Value-Test Case Fixed |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20040602 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Banks | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Karl | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Leonard | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5555835 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5027 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 12128 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4095-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | VAQTA | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|---------------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 208490 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20160120 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | U | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300004211Y11025 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis A VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|------------|----------------------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150624093847.808-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-6.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 8891 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Banks | Presence-Content Indifferent |
| PID-5.2 | Given Name | Tyler | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Owen | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |

| | | | |
|------------|-------------------------------------|---------------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20140602 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | Indifferent |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5555835 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | Y | Value-Test Case Fixed |
| PID-25 | Birth Order | 2 | Value-Test Case Fixed |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death | N | Value-Test Case Fixed |

Indicator

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|-----------------|---|------------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 02 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150624 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20040602 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150624 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Banks | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Karl | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | Leonard | Presence-Content Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | FTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Father | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 924 Sycamore Lane | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5555835 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 5027 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 12128 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150624 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4095-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | VAQTA | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| | | | Presence-Content |

| | | | |
|------------|--|---------------------|---------------------------------|
| RXA-10.2.1 | Surname | Jackson | Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 208490 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20160120 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | U | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RT | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300004211Y11025 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis A VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150624 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150624 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Tyler Owen Banks |
| Mother's Maiden Name | |
| ID Number | 8891 |
| Date/Time of Birth | 06/02/2014 |
| Administrative Sex | Male |
| Patient Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Local Number | (406)555-5835 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | Yes |
| Birth Order | 2 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/02/2004 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Karl Leonard Banks |
| Relationship | Father |
| Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Phone Number | (406)555-5835 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | VAQTA |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 208490 |
| Substance Expiration Date | 01/20/2016 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Update |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis A VIS |
| Date Vis Presented | 06/24/2015 |

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Tyler Owen Banks |
| Mother's Maiden Name | |
| ID Number | 8891 |
| Date/Time of Birth | 06/02/2014 |
| Administrative Sex | Male |
| Patient Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Local Number | (406)555-5835 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | Yes |
| Birth Order | 2 |

Immunization Registry Information

| Element | Data |
|---|------------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/02/2004 |
| Publicity Code | Reminder/recall - any method |
| Publicity Code Effective Date | 06/24/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/24/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Karl Leonard Banks |
| Relationship | Father |
| Address | 924 Sycamore Lane Bozeman MT 59715 USA |
| Phone Number | (406)555-5835 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | VAQTA |
| Date/Time Start of Administration | 06/24/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 208490 |
| Substance Expiration Date | 01/20/2016 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Update |
| Route | Intramuscular |
| Administration Site | Right Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis A VIS |
| Date Vis Presented | 06/24/2015 |

1.6.2. IZ-AD-6.2_Receive_ACK_Z23

ests the ability to consume a valid ACK message

Test Story

| |
|---|
| Description |
| The IIS returns a positive acknowledgement message indicating that no errors were found during the course of filing the message. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| The acknowledgement message is consumed by the system responsible for the content of the administration message without error. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|-----------------------------|---------------------|-------------|-----------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.822-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-6.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| | Receiving Responsible | | |

| | | | |
|------------|-------------------------|------------|--|
| MSH-23 | Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-6.1_Send_V04_Z22 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150624093847.822-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-6.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-AD-6.1_Send_V04_Z22 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | |
|-----------------------------------|---|
| Test Case ID | IZ-AD-6_Update_Record |
| Juror ID | |
| Juror Name | |
| HIT System Tested | |
| Inspection Date/Time | |
| Inspection Settlement (Pass/Fail) | <input type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Reason Failed | |
| Juror Comments | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which NO Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement |
|---|
| The receiving HIT system being tested shall process the Z23 ACK message correctly; a positive notification indicating that the ACK message was processed correctly <u>need not be made visible</u> in the system. |

1.7. IZ-AD-7_Historical_IIS-Error

Historical administration resulting in fatal error

Test Story

| |
|---|
| Description |
| A patient is seen at a clinic. A historical vaccination is recorded but the IIS is unable to process the administration message, rejects it and returns a fatal error in the acknowledgement message. |
| Comments |
| The test case simulates the IIS issuing an acknowledgement error due to an internal error even though the message is valid. |
| Pre Condition |
| No PreCondition |
| Post Condition |
| The returned error must be visible in the EHR. |
| Test Objectives |
| This test case assesses the ability of the EHR to accept an acknowledgement message with a fatal error being returned by the IIS. |
| Evaluation Criteria |
| Administered Message: Validation Report with no Errors Acknowledgement Message: An indication of a error (See Juror Document) |
| Notes for Testers |
| No Note |

1.7.1. IZ-AD-7.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|--|
| Description |
| A 66 year old female, Helen Barrett, comes to a clinic for a physical. A clinic staff member collects basic patient demographic information including name, date of birth and sex. The patient reports that she received a Zoster vaccination at a local pharmacy on her 65th birthday. The clinic staff determine that no further vaccinations are required. A clinician, Lily Jackson (ID 7824) enters the historical data into the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for Sending Responsible Organization (MSH-22) and Receiving Responsible Organization (MSH-23) to include: 1. Identifier 2. Identifier Type Code 3. Assigning Authority for the Identifier Support for both phone number and e-mail. |
| Evaluation Criteria |
| Message Validation Report. |
| Notes for Testers |
| Tester should refer to the Message Content tab for expected elements needed to be valued in MSH-22 and MSH-23. Examples values are provided. |

Message Contents

| MSH : Message Header | | | |
|-----------------------------|---------------------|-------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |

| | | | | |
|--|----------|----------------------------------|-----------------------------|------------------------------|
| | MSH-3.2 | Universal ID | | Indifferent |
| | MSH-3.3 | Universal ID Type | | Indifferent |
| | MSH-4 | Sending Facility | | |
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150625121047.839-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-7.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence- |

| | | | |
|------------|------------------------------------|--------------|------------------------|
| MSH-22.6 | Assigning Authority | | Configuration |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 7120 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Barrett | Presence-Content Indifferent |
| PID-5.2 | Given Name | Helen | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|-------------|----------------------------------|-----------------------|---------------------------------|
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19500317 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 763 Main St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5554064 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | | NonPresence |
| PID-13[2].4 | Email Address | Helen.Barrett@isp.com | Presence-Content Indifferent |

| | | | |
|-------------|-----------------------------|------------------------|---------------------------|
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 06 | Value-Test Case Fixed |
| PD1-11.2 | Text | Recall only - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 19500317 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7646 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 53100 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|---------------------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150317 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 121 | Value-Test Case Fixed |
| RXA-5.2 | Text | zoster | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |

| | | | |
|------------|------------------------------------|----|-----------------------|
| RXA-11.4.1 | Facility Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |

| | | | |
|------------|------------------------------------|-----------------------------|------------------------------|
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625121047.839-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-7.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence- |

| | | | |
|------------|-------------------------|----------|------------------------------|
| MSH-23.6.2 | Universal ID | | Configuration Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence- Configuration |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 7120 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Barrett | Presence-Content Indifferent |
| PID-5.2 | Given Name | Helen | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19500317 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |

| | | | |
|-------------|----------------------------------|------------------------|---------------------------------|
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 763 Main St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5554064 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | | NonPresence |
| PID-13[2].4 | Email Address | Helen.Barrett@isp.com | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 06 | Value-Test Case Fixed |
| PD1-11.2 | Text | Recall only - any method | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | Y | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 19500317 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7646 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 53100 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| | Second and Further | | |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.4 | Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150317 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 121 | Value-Test Case Fixed |
| RXA-5.2 | Text | zoster | Presence-Test Case Proper |

| | | | |
|------------|--|---------------------------|---------------------------|
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Value-Test Case Fixed |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | NonPresence |
| RXA-7.2 | Text | | NonPresence |
| RXA-7.3 | Name of Coding System | | NonPresence |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |

| | | | |
|----------|-----------------------|----|-----------------------|
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|----------------------------------|
| Patient Name | Helen Barrett |
| Mother's Maiden Name | |
| ID Number | 7120 |
| Date/Time of Birth | 03/17/1950 |
| Administrative Sex | Female |
| Patient Address | 763 Main St Bozeman MT 59715 USA |
| Local Number | (406)555-4064 |
| Email | Helen.Barrett@isp.com |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 03/17/1950 |
| Publicity Code | Recall only - any method |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------------|
| Administered Vaccine | zoster |
| Date/Time Start of Administration | 03/17/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Patient Information

| Element | Data |
|--------------------------|----------------------------------|
| Patient Name | Helen Barrett |
| Mother's Maiden Name | |
| ID Number | 7120 |
| Date/Time of Birth | 03/17/1950 |
| Administrative Sex | Female |
| Patient Address | 763 Main St Bozeman MT 59715 USA |
| Local Number | (406)555-4064 |
| Email | Helen.Barrett@isp.com |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 03/17/1950 |
| Publicity Code | Recall only - any method |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | Yes |
| Protection Indicator Effective Date | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------------|
| Administered Vaccine | zoster |
| Date/Time Start of Administration | 03/17/2015 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

1.7.2. IZ-AD-7.2_Receive_ACK_Z23

Tests the ability to consume an ACK message containing a fatal error

Test Story

| |
|---|
| Description |
| The IIS has a mapping error in their CVX table and is unable to recognize the CVX code sent in RXA-5 even though it is valid. The IIS is unable to identify the appropriate vaccine, which is a required element, and rejects the message. The acknowledgement message returned contains an error for the table mapping. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for accepting an acknowledgement message with a fatal error being returned by the IIS and to display some notification to an end user. |
| Evaluation Criteria |
| The error returned in the acknowledgement message is visible in the system responsible for the content of the administration message. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| | | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4 | Sending Facility Namespace ID | NISTIISFAC | |
| MSH-4.1 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625121047.853-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-7.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |

| | | | |
|------------|------------------------------------|--------------|--|
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-7.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXA | |
| ERR-2.2 | Segment Sequence | 1 | |
| ERR-2.3 | Field Position | 5 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | E | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Vaccine code not recognized - message rejected | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625121047.853-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-7.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type | XX | |

| | | | |
|-----------|------------------------------|----------|--|
| MSH-23.10 | Code Organization Identifier | 100-6482 | |
|-----------|------------------------------|----------|--|

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-7.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXA | |
| ERR-2.2 | Segment Sequence | 1 | |
| ERR-2.3 | Field Position | 5 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | E | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Vaccine code not recognized - message rejected | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | | | | | |
|-----------------------------------|--|------|------|--------------------------|--------------------------|
| Test Case ID | IZ-AD-7_Historical_IIS-Error | | | | |
| Juror ID | | | | | |
| Juror Name | | | | | |
| HIT System Tested | | | | | |
| Inspection Date/Time | | | | | |
| Inspection Settlement (Pass/Fail) | <table border="1"><tr><td>Pass</td><td>Fail</td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table> | Pass | Fail | <input type="checkbox"/> | <input type="checkbox"/> |
| Pass | Fail | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Reason Failed | | | | | |
| Juror Comments | | | | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which an Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement |
|---|
| The receiving HIT system being tested shall process the Z23 ACK error notification message correctly; the issue identified in the error notification <u>must be made visible</u> in the system. |

1.8. IZ-AD-8_Admin_IIS-Warning

New administration resulting in soft error

Test Story

| |
|---|
| Description |
| A patient is seen at a clinic. A new administration is recorded. The IIS is able to process the administration message but finds a soft error (warning) which it returns in the acknowledgement message. |
| Comments |
| The test case simulates the IIS issuing an acknowledgement warning due to an internal warning even though the message is valid. |
| Pre Condition |
| No PreCondition |
| Post Condition |
| The returned warning must be visible in the EHR-S. |
| Test Objectives |
| The test case targets the EHR-S capability of supporting OIDs (e.g., in MSH-3 and for assigning authorities) for administered message and assesses the ability of the EHR-S to accept an acknowledgement message with a soft error (warning) being returned by the IIS. |
| Evaluation Criteria |
| Administered Message: Validation Report with no Errors Acknowledgement Message: An indication of a warning (See Juror Document) |
| Notes for Testers |
| No Note |

1.8.1. IZ-AD-8.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|---|
| Description |
| A 1 month old female, Ashley Jennifer Broadway, is brought to a clinic for a well child visit by her mother Ellen Broadway (nee Layton). A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider, Wilma Thomas (physician ID 654) reviews the patient's vaccination history and determines that the child requires a Hep B vaccination. The child is covered by insurance and does not qualify for all Vaccine For Children (VFC) supplied vaccines. The mother is given the Vaccine Information Sheet (VIS) to review. After reading it, she agrees that the child should receive the Hep B vaccine. She also agrees that the data should be shared once it is incorporated into the local IIS. An appropriate dose of Hep B (ENGERIX-B) is selected from the clinic's stock of privately funded vaccines. A clinician, Lily Jackson (ID 7824) prepares and administers the doses to the patient and enters the data into the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support of OIDs. |
| Evaluation Criteria |
| Message Validation Report. |
| Notes for Testers |
| No Note |

Message Contents

| MSH : Message Header | | | |
|-----------------------------|---------------------|-------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| | | | Presence-Test Case |

| | | | |
|----------|---------------------------------|------------------------------|------------------------------|
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.725.40.1 | Presence-Profile |
| MSH-3.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.725.40.2 | Presence-Test Case Proper |
| MSH-4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.725.40.3 | Presence-Test Case Proper |
| MSH-5.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.725.40.4 | Presence-Test Case Proper |
| MSH-6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625103328.757-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-8.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| | Sending Responsible | | |

| | | | |
|------------|------------------------------------|------------------------------|---------------------------|
| MSH-22 | Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.725.40.9 | Presence-Test Case Proper |
| MSH-22.6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.725.40.9 | Presence-Test Case Proper |
| MSH-23.6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|-------------------------|------------------------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 77100 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | 2.16.840.1.113883.3.725.40.5 | Presence-Test Case Proper |
| PID-3.4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Broadway | Presence-Content Indifferent |
| PID-5.2 | Given Name | Ashley | Presence-Content Indifferent |

| | | | |
|------------|--|-------------------|------------------------------|
| PID-5.3 | Second and Further Given Names or Initials Thereof | Jennifer | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Layton | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20150516 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2054-5 | Value-Test Case Fixed |
| PID-10.2 | Text | African American | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 901 North 12th St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5552262 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |

| | | | |
|----------|-----------------------------|------------------------|---------------------------|
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|----------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 03 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - no calls | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150516 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Broadway | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Ellen | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 901 North 12th St | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5552262 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|-----------------------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 3881 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | 2.16.840.1.113883.3.7254010 | Presence-Test Case Proper |
| ORC-2.4 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 13926 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | 2.16.840.1.113883.3.7254010 | Presence-Test Case Proper |
| ORC-3.4 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | 2.16.840.1.113883.3.725407 | Presence-Test Case Proper |
| ORC-10.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |

| | | | |
|------------|--------------------------|------------------------------|---------------------------------|
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | 2.16.840.1.113883.3.725.40.7 | Presence-Test Case Proper |
| ORC-12.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0820-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | ENGERIX-B | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |

| | | | |
|------------|--|-------------------------------|---------------------------------|
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | 2.16.840.1.113883.3.725.40.7 | Presence-Test Case Proper |
| RXA-10.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | 2.16.840.1.113883.3.725.40.12 | Presence-Test Case Proper |
| RXA-11.4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| RXA-15 | Substance Lot Number | 797397 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151203 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300005911 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis B VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|---------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.725.40.1 | Presence-Test Case Proper |
| MSH-3.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-4 | Sending Facility | | |

| | | | |
|----------|----------------------------------|--|------------------------------|
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72 ^{5.40.2} | Presence-Test Case Propér |
| MSH-4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72 ^{5.40.3} | Presence-Test Case Propér |
| MSH-5.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72 ^{5.40.4} | Presence-Test Case Propér |
| MSH-6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625103328.757-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-8.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |

| | | | |
|------------|------------------------------------|------------------------------|---------------------------|
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.725.40.9 | Presence-Test Case Proper |
| MSH-22.6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.725.40.9 | Presence-Test Case Proper |
| MSH-23.6.3 | Universal ID Type | ISO | Value-Profile Fixed |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|-----------------------------------|------------------------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 77100 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | 2.16.840.1.113883.3.725.40.5 | Presence-Test Case Proper |
| PID-3.4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Broadway | Presence-Content Indifferent |
| PID-5.2 | Given Name | Ashley | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or | Jennifer | Presence-Content |

| | | | |
|------------|----------------------------------|------------------------|---------------------------------|
| | Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | Layton | Presence-Content Indifferent |
| PID-6.7 | Name Type Code | M | Value-Profile Fixed |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20150516 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2054-5 | Value-Test Case Fixed |
| PID-10.2 | Text | African American | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 901 North 12th St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5552262 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| | Name of Coding | | |

| | | | |
|----------|-----------------------------|--------|-----------------------|
| PID-22.3 | System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|----------------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 03 | Value-Test Case Fixed |
| PD1-11.2 | Text | Reminder/recall - no calls | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150516 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-------------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Broadway | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Ellen | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | MTH | Value-Test Case Fixed |
| NK1-3.2 | Text | Mother | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 901 North 12th St | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5552262 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------|------|---------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |

| | | | |
|------------|--|-----------------------------|---------------------------------|
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 3881 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | 2.16.840.1.113883.3.7254010 | Presence-Test Case Proper |
| ORC-2.4 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 13926 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | 2.16.840.1.113883.3.7254010 | Presence-Test Case Proper |
| ORC-3.4 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | 2.16.840.1.113883.3.725407 | Presence-Test Case Proper |
| ORC-10.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |

| | | | |
|------------|--------------------------|------------------------------|---------------------------------|
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | 2.16.840.1.113883.3.725.40.7 | Presence-Test Case Proper |
| ORC-12.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------------------------------|---------------|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0820-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | ENGERIX-B | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |

| | | | |
|------------|--|-------------------------------|---------------------------------|
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | 2.16.840.1.113883.3.725.40.7 | Presence-Test Case Proper |
| RXA-10.9.3 | Universal ID Type | ISO | Value-Profile Fixed |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | 2.16.840.1.113883.3.725.40.12 | Presence-Test Case Proper |
| RXA-11.4.3 | Universal ID Type | ISO | Value-Profile Fixed |
| RXA-15 | Substance Lot Number | 797397 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151203 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LT | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Thigh | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300005911 | Value-Test Case Fixed |
| OBX-5.2 | Text | Hepatitis B VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Ashley Jennifer Broadway |
| Mother's Maiden Name | Layton |
| ID Number | 77100 |
| Date/Time of Birth | 05/16/2015 |
| Administrative Sex | Female |
| Patient Address | 901 North 12th St Bozeman MT 59715 USA |
| Local Number | (406)555-2262 |
| Race | African American |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|----------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 05/16/2015 |
| Publicity Code | Reminder/recall - no calls |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Ellen Broadway |
| Relationship | Mother |
| Address | 901 North 12th St Bozeman MT 59715 USA |
| Phone Number | (406)555-2262 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | ENGERIX-B |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 797397 |
| Substance Expiration Date | 12/03/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis B VIS |
| Date Vis Presented | 06/25/2015 |

Patient Information

| Element | Data |
|--------------------------|--|
| Patient Name | Ashley Jennifer Broadway |
| Mother's Maiden Name | Layton |
| ID Number | 77100 |
| Date/Time of Birth | 05/16/2015 |
| Administrative Sex | Female |
| Patient Address | 901 North 12th St Bozeman MT 59715 USA |
| Local Number | (406)555-2262 |
| Race | African American |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|----------------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 05/16/2015 |
| Publicity Code | Reminder/recall - no calls |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--|
| Name | Ellen Broadway |
| Relationship | Mother |
| Address | 901 North 12th St Bozeman MT 59715 USA |
| Phone Number | (406)555-2262 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | ENGERIX-B |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 797397 |
| Substance Expiration Date | 12/03/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Thigh |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Hepatitis B VIS |
| Date Vis Presented | 06/25/2015 |

1.8.2. IZ-AD-8.2_Receive_ACK_Z23

Tests the ability to consume an ACK message containing a warning

Test Story

| |
|---|
| Description |
| A mapping error in the IIS software results in the IIS being unable to recognize the administration site sent in RXR-2 even though it is valid. The acknowledgement message returned contains a warning for an invalid value. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for accepting an acknowledgement message with a warning being returned by the IIS and to display some notification to an end user. |
| Evaluation Criteria |
| The warning returned in the acknowledgement message is visible in the system responsible for the content of the administration message. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|-------------------------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.3 | |
| MSH-3.3 | Universal ID Type | ISO | |
| MSH-4 | Sending Facility | | |

| | | | |
|------------|----------------------------------|--------------------------------|--|
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.4 | |
| MSH-4.3 | Universal ID Type | ISO | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.1 | |
| MSH-5.3 | Universal ID Type | ISO | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.2 | |
| MSH-6.3 | Universal ID Type | ISO | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625103328.758-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-8.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-22.6.3 | Universal ID Type | ISO | |
| MSH-22.7 | Identifier Type Code | XX | |
| | Organization | | |

| | | | |
|------------|------------------------------------|-------------------------------|--|
| MSH-22.10 | Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-23.6.3 | Universal ID Type | ISO | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-8.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 2 | |
| ERR-2.3 | Field Position | 1 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|--------------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.3 | |
| MSH-3.3 | Universal ID Type | ISO | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.4 | |
| MSH-4.3 | Universal ID Type | ISO | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.1 | |
| MSH-5.3 | Universal ID Type | ISO | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.2 | |
| MSH-6.3 | Universal ID Type | ISO | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625103328.758-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-8.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |

| | | | |
|------------|------------------------------------|-------------------------------|--|
| MSH-21.3 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-22.6.3 | Universal ID Type | ISO | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-23.6.3 | Universal ID Type | ISO | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-8.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 2 | |
| ERR-2.3 | Field Position | 1 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | | | | | |
|-----------------------------------|--|------|------|--------------------------|--------------------------|
| Test Case ID | IZ-AD-8_Admin_IIS-Warning | | | | |
| Juror ID | | | | | |
| Juror Name | | | | | |
| HIT System Tested | | | | | |
| Inspection Date/Time | | | | | |
| Inspection Settlement (Pass/Fail) | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Pass</th> <th>Fail</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> | Pass | Fail | <input type="checkbox"/> | <input type="checkbox"/> |
| Pass | Fail | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Reason Failed | | | | | |
| Juror Comments | | | | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which an Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement | |
|---|--|
| The receiving HIT system being tested shall process the Z23 ACK error notification message correctly; the issue identified in the error notification <u>must be made visible</u> in the system. | |

1.9. IZ-AD-9_Admin_IIS-2Warnings

New administration resulting in multiple soft errors

Test Story

Description

A patient is seen at a clinic. A new administration is recorded. The IIS is able to process the administration message but finds multiple soft errors (warnings) which it returns in the acknowledgement message.

Comments

The test case simulates the IIS issuing an acknowledgement warning due to an internal warning even though the message is valid.

Pre Condition

No PreCondition

Post Condition

The returned warnings must be visible in the EHR.

Test Objectives

This test case assesses the ability of the EHR to accept an acknowledgement message with multiple soft errors (warnings) being returned by the IIS.

Evaluation Criteria

Administered Message: Validation Report with no Errors

Acknowledgement Message: An indication of warnings (See Juror Document)

Notes for Testers

No Note

1.9.1. IZ-AD-9.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|---|
| Description |
| A 4 year old female, Lacy Wells, is brought to a clinic for a well child visit by her guardian Janelle Trudeau. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider, Wilma Thomas (physician ID 654) reviews the patient's vaccination history and determines that the child requires DTaP, polio, MMR and varicella vaccinations. The child is covered by insurance and does not qualify for all Vaccine For Children (VFC) supplied vaccines. The guardian is given the appropriate Vaccine Information Sheet (VIS) to review. After reading it, she agrees that the child should receive all the vaccines. She also agrees that the data should be shared once it is incorporated into the local IIS. Appropriate doses of DTaP-IPV (KINRIX) and MMRV (ProQuad) are selected from the clinic's stock of privately funded vaccines. A clinician, Lily Jackson (ID 7824) prepares and administers the doses to the patient and enters the data into the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| Message Validation Report. |
| Notes for Testers |
| No Note |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |

| | | | |
|----------|----------------------------------|-----------------------------|------------------------------|
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625115038.030-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-9.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6 | Assigning Authority Namespace ID | | Indifferent |
| MSH-22.6.1 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 22533 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Wells | Presence-Content Indifferent |
| PID-5.2 | Given Name | Lacy | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |

| | | | |
|------------|-------------------------------------|---------------------------|---------------------------------|
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20110430 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 12 North Oak St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5552914 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |

| | | | |
|----------|-------------------------|---|-----------------------|
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20110430 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-----------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Trudeau | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Janelle | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | GRD | Value-Test Case Fixed |
| NK1-3.2 | Text | Guardian | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 12 North Oak St | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5552914 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
|----------|--------------|------|----------------|

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 657 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 68544 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7553 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 8671 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| | Administration Sub- | | |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-2 | ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4171-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | ProQuad | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|------------------------------------|---------------------|------------------------------|
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 407453 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151015 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0812-01 | Value-Test Case Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-5.2 | Text | KINRIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|-----------------|------------------------------|
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 88402 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150730 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38299 | Value-Test Case Fixed |
| RXR-1.2 | Text | Subcutaneous | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LD | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001341100521 | Value-Test Case Fixed |
| OBX-5.2 | Text | Measles/Mumps/Rubeola | Has Value Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgs1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 2530886983000172111108 | Value-Test Case Fixed |
| OBX-5.2 | Text | Polio VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 5 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300003511070517 | Value-Test Case Fixed |
| OBX-5.2 | Text | Diphtheria/Tetanus/Pertussis (DTaP) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 6 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | Presence- |

| | | | | |
|--|------------|----------------------------------|-----------------------------|------------------------------|
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150625115038.030-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-9.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|---------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 22533 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Wells | Presence-Content Indifferent |
| PID-5.2 | Given Name | Lacy | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |

| | | | |
|------------|-------------------------------------|---------------------------|---------------------------------|
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20110430 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | F | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 12 North Oak St | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13 | Phone Number - Home | | |
| PID-13.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13.4 | Email Address | | NonPresence |
| PID-13.6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13.7 | Local Number | 5552914 | Presence-Content Indifferent |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2186-5 | Value-Test Case Fixed |
| PID-22.2 | Text | Not Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death | N | Value-Test Case Fixed |

Indicator

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|-----------------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20110430 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

NK1 : Next of Kin / Associated Parties

| Location | Data Element | Data | Categorization |
|-----------|--|-----------------|---------------------------------|
| NK1-1 | Set ID - NK1 | 1 | Value-Profile Fixed |
| NK1-2 | Name | | |
| NK1-2.1 | Family Name | | |
| NK1-2.1.1 | Surname | Trudeau | Presence-Content Indifferent |
| NK1-2.2 | Given Name | Janelle | Presence-Content Indifferent |
| NK1-2.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| NK1-2.7 | Name Type Code | L | Value-Test Case Fixed |
| NK1-3 | Relationship | | |
| NK1-3.1 | Identifier | GRD | Value-Test Case Fixed |
| NK1-3.2 | Text | Guardian | Presence-Test Case Proper |
| NK1-3.3 | Name of Coding System | HL70063 | Value-Profile Fixed |
| NK1-4 | Address | | |
| NK1-4.1 | Street Address | | |
| NK1-4.1.1 | Street or Mailing Address | 12 North Oak St | Presence-Content Indifferent |
| NK1-4.2 | Other Designation | | Indifferent |
| NK1-4.3 | City | Bozeman | Presence-Content Indifferent |
| NK1-4.4 | State or Province | MT | Presence-Content Indifferent |
| NK1-4.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| NK1-4.6 | Country | USA | Presence-Content Indifferent |
| NK1-4.7 | Address Type | P | Value-Test Case Fixed |
| NK1-5 | Phone Number | | |
| NK1-5.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| NK1-5.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| NK1-5.4 | Email Address | | Indifferent |
| NK1-5.6 | Area/City Code | 406 | Presence-Content Indifferent |
| NK1-5.7 | Local Number | 5552914 | Presence-Content Indifferent |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
|----------|--------------|------|----------------|

| | | | |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 657 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 68544 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |

| | | | |
|------------|-----------------------|-----------------|---------------------------------|
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|---------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 7553 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 8671 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | 654 | Presence-Content Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | Thomas | Presence-Content Indifferent |
| ORC-12.3 | Given Name | Wilma | Presence-Content Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | Elizabeth | Presence-Content Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-12.13 | Identifier Type Code | MD | Value-Test Case Fixed |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| | Administration Sub- | | |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-2 | ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 00006-4171-01 | Value-Test Case Fixed |
| RXA-5.2 | Text | ProQuad | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |

| | | | |
|------------|------------------------------------|---------------------|------------------------------|
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 407453 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20151015 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | MSD | Value-Test Case Fixed |
| RXA-17.2 | Text | Merck and Co., Inc. | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---------------|------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20150625 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 58160-0812-01 | Value-Test Case Fixed |

| | | | |
|------------|--|---------------|------------------------------|
| RXA-5.2 | Text | KINRIX | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | NDC | Value-Profile Fixed |
| RXA-6 | Administered Amount | 0.5 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | Value-Test Case Fixed |
| RXA-7.2 | Text | mL | Presence-Test Case Proper |
| RXA-7.3 | Name of Coding System | UCUM | Value-Profile Fixed |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | Value-Test Case Fixed |
| RXA-9.2 | Text | New Record | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| RXA-10.3 | Given Name | Lily | Presence-Content Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | L | Value-Test Case Fixed |
| RXA-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |

| | | | |
|------------|------------------------------------|-----------------|------------------------------|
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | 88402 | Presence-Content Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | 20150730 | Presence-Content Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | SKB | Value-Test Case Fixed |
| RXA-17.2 | Text | GlaxoSmithKline | Presence-Test Case Proper |
| RXA-17.3 | Name of Coding System | MVX | Value-Profile Fixed |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

RXR[*]

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C38299 | Value-Test Case Fixed |
| RXR-1.2 | Text | Subcutaneous | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | RD | Value-Test Case Fixed |
| RXR-2.2 | Text | Right Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------|---------------------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | Value-Test Case Fixed |
| RXR-1.2 | Text | Intramuscular | Presence-Test Case Proper |
| RXR-1.3 | Name of Coding System | NCIT | Value-Profile Fixed |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | LD | Value-Test Case Fixed |
| RXR-2.2 | Text | Left Deltoid | Presence-Test Case Proper |
| RXR-2.3 | Name of Coding System | HL70163 | Value-Profile Fixed |

OBX[*]**OBX : Observation/Result**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 25308869830001341100521 | Value-Test Case Fixed |
| OBX-5.2 | Text | Measles/Mumps/Rubeola | Has Value Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgs1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 1 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30963-3 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Source | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 1 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | PHC70 | Value-Test Case Fixed |
| OBX-5.2 | Text | Private | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-------------------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 2 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 64994-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Vaccine Funding Program Eligibility | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 2 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | V01 | Value-Test Case Fixed |
| OBX-5.2 | Text | Not VFC Eligible | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | HL70064 | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | VXC40 | Value-Test Case Fixed |
| OBX-17.2 | Text | per immunization | Presence-Test Case Proper |
| OBX-17.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|------------------------|------------------------------|
| OBX-1 | Set ID - OBX | 3 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 2530886983000172111108 | Value-Test Case Fixed |
| OBX-5.2 | Text | Polio VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 4 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 3 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---|------------------------------|
| OBX-1 | Set ID - OBX | 5 | Value-Profile Fixed |
| OBX-2 | Value Type | CE | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 69764-9 | Value-Test Case Fixed |
| OBX-3.2 | Text | Document Type | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 253088698300003511070517 | Value-Test Case Fixed |
| OBX-5.2 | Text | Diphtheria/Tetanus/Pertussis (DTaP) VIS | Presence-Test Case Proper |
| OBX-5.3 | Name of Coding System | cdcgsv1vis | Value-Profile Fixed |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------------|------------------------------|
| OBX-1 | Set ID - OBX | 6 | Value-Profile Fixed |
| OBX-2 | Value Type | DT | Value-Test Case Fixed |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 29769-7 | Value-Test Case Fixed |
| OBX-3.2 | Text | Date Vis Presented | Presence-Test Case Proper |
| OBX-3.3 | Name of Coding System | LN | Value-Profile Fixed |
| OBX-4 | Observation Sub-ID | 4 | Presence-Test Case Proper |
| OBX-5 | Observation Value | 20150625 | Presence-Content Indifferent |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | NonPresence |
| OBX-6.2 | Text | | NonPresence |
| OBX-6.3 | Name of Coding System | | NonPresence |
| OBX-11 | Observation Result Status | F | Value-Profile Fixed |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20150625 | Presence-Content Indifferent |
| OBX-17 | Observation Method | | |
| OBX-17.1 | Identifier | | Indifferent |
| OBX-17.2 | Text | | Indifferent |
| OBX-17.3 | Name of Coding System | | Indifferent |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|--------------------------------------|
| Patient Name | Lacy Wells |
| Mother's Maiden Name | |
| ID Number | 22533 |
| Date/Time of Birth | 04/30/2011 |
| Administrative Sex | Female |
| Patient Address | 12 North Oak St Bozeman MT 59715 USA |
| Local Number | (406)555-2914 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 04/30/2011 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--------------------------------------|
| Name | Janelle Trudeau |
| Relationship | Guardian |
| Address | 12 North Oak St Bozeman MT 59715 USA |
| Phone Number | (406)555-2914 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | ProQuad |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 407453 |
| Substance Expiration Date | 10/15/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Subcutaneous |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-------------------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Measles/Mumps/Rubella/Varicella VIS |
| Date Vis Presented | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | KINRIX |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 88402 |
| Substance Expiration Date | 07/30/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Polio VIS |
| Date Vis Presented | 06/25/2015 |
| Document Type | Diphtheria/Tetanus/Pertussis (DTaP) VIS |
| Date Vis Presented | 06/25/2015 |

Patient Information

| Element | Data |
|--------------------------|--------------------------------------|
| Patient Name | Lacy Wells |
| Mother's Maiden Name | |
| ID Number | 22533 |
| Date/Time of Birth | 04/30/2011 |
| Administrative Sex | Female |
| Patient Address | 12 North Oak St Bozeman MT 59715 USA |
| Local Number | (406)555-2914 |
| Race | White |
| Ethnic Group | Not Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 04/30/2011 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Guardian or Responsible Party

| Element | Data |
|--------------|--------------------------------------|
| Name | Janelle Trudeau |
| Relationship | Guardian |
| Address | 12 North Oak St Bozeman MT 59715 USA |
| Phone Number | (406)555-2914 |

Vaccine Administration Information[*]

Vaccine Administration Information

| Element | Data |
|------------------------------------|---------------------|
| Administered Vaccine | ProQuad |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 407453 |
| Substance Expiration Date | 10/15/2015 |
| Substance Manufacturer Name | Merck and Co., Inc. |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Subcutaneous |
| Administration Site | Right Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|-------------------------------------|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Measles/Mumps/Rubella/Varicella VIS |
| Date Vis Presented | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|-----------------|
| Administered Vaccine | KINRIX |
| Date/Time Start of Administration | 06/25/2015 |
| Administered Amount | 0.5 |
| Administered Units | mL |
| Administration Notes | New Record |
| Administering Provider | Lily Jackson |
| Substance Lot Number | 88402 |
| Substance Expiration Date | 07/30/2015 |
| Substance Manufacturer Name | GlaxoSmithKline |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | Intramuscular |
| Administration Site | Left Deltoid |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | Wilma Thomas |

| Element | Data |
|-------------------------------------|---|
| Vaccine Funding Source | Private |
| Vaccine Funding Program Eligibility | Not VFC Eligible |
| Document Type | Polio VIS |
| Date Vis Presented | 06/25/2015 |
| Document Type | Diphtheria/Tetanus/Pertussis (DTaP) VIS |
| Date Vis Presented | 06/25/2015 |

1.9.2. IZ-AD-9.2_Receive_ACK_Z23

Tests the ability to consume an ACK message containing multiple warnings

Test Story

| |
|---|
| Description |
| A mapping error in the IIS software results in the IIS being unable to recognize either administration site sent in RXR-2 even though it is valid. The acknowledgement message returned contains warnings for the invalid values. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for accepting an acknowledgement message with multiple warnings being returned by the IIS and to display some notification to an end user. |
| Evaluation Criteria |
| The warnings returned in the acknowledgement message are visible in the system responsible for the content of the administration message. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |

| | | |
|------------|----------------------------------|--------------------------------|
| MSH-4.1 | Namespace ID | NISTIISFAC |
| MSH-4.2 | Universal ID | |
| MSH-4.3 | Universal ID Type | |
| MSH-5 | Receiving Application | |
| MSH-5.1 | Namespace ID | NISTEHRAPP |
| MSH-5.2 | Universal ID | |
| MSH-5.3 | Universal ID Type | |
| MSH-6 | Receiving Facility | |
| MSH-6.1 | Namespace ID | NISTEHRFAC |
| MSH-6.2 | Universal ID | |
| MSH-6.3 | Universal ID Type | |
| MSH-7 | Date/Time Of Message | |
| MSH-7.1 | Time | 20150625115038.044-0500 |
| MSH-9 | Message Type | |
| MSH-9.1 | Message Code | ACK |
| MSH-9.2 | Trigger Event | V04 |
| MSH-9.3 | Message Structure | ACK |
| MSH-10 | Message Control ID | NIST-IZ-AD-9.2_Receive_ACK_Z23 |
| MSH-11 | Processing ID | |
| MSH-11.1 | Processing ID | P |
| MSH-12 | Version ID | |
| MSH-12.1 | Version ID | 2.5.1 |
| MSH-15 | Accept Acknowledgment Type | NE |
| MSH-16 | Application Acknowledgment Type | NE |
| MSH-21 | Message Profile Identifier | |
| MSH-21.1 | Entity Identifier | Z23 |
| MSH-21.2 | Namespace ID | CDCPHINVS |
| MSH-21.3 | Universal ID | |
| MSH-21.4 | Universal ID Type | |
| MSH-22 | Sending Responsible Organization | |
| MSH-22.1 | Organization Name | NISTIISFAC |
| MSH-22.6 | Assigning Authority | |
| MSH-22.6.1 | Namespace ID | |
| MSH-22.6.2 | Universal ID | |
| MSH-22.6.3 | Universal ID Type | |
| MSH-22.7 | Identifier Type Code | |
| | Organization | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-22.10 | Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-9.1_Send_V04_Z22 | |

ERR[*]**ERR : Error**

| Location | Data Element | Data | Categorization |
|-----------------|------------------------|--|-----------------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 1 | |
| ERR-2.3 | Field Position | 2 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 2 | |
| ERR-2.3 | Field Position | 2 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |

| | | | |
|------------|------------------------------------|--------------------------------|--|
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625115038.044-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-9.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |

| | | | |
|------------|-------------------------|--|--|
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|-----------------------------|----------------|
| MSA-1 | Acknowledgment Code | AE | |
| MSA-2 | Message Control ID | NIST-IZ-AD-9.1_Send_V04_Z22 | |

ERR[*]

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 1 | |
| ERR-2.3 | Field Position | 2 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | RXR | |
| ERR-2.2 | Segment Sequence | 2 | |
| ERR-2.3 | Field Position | 2 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | 1 | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 999 | |
| ERR-3.2 | Text | Application error | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | W | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | 5 | |
| ERR-5.2 | Text | Table value not found | |
| ERR-5.3 | Name of Coding System | HL70533 | |
| ERR-8 | User Message | Administration Site not recognized - site data will not be saved | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | | | | | |
|-----------------------------------|--|------|------|--------------------------|--------------------------|
| Test Case ID | IZ-AD-9_Admin_IIS-2Warnings | | | | |
| Juror ID | | | | | |
| Juror Name | | | | | |
| HIT System Tested | | | | | |
| Inspection Date/Time | | | | | |
| Inspection Settlement (Pass/Fail) | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Pass</th> <th>Fail</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> | Pass | Fail | <input type="checkbox"/> | <input type="checkbox"/> |
| Pass | Fail | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Reason Failed | | | | | |
| Juror Comments | | | | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which an Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement | |
|---|--|
| The receiving HIT system being tested shall process the Z23 ACK error notification message correctly; the issue identified in the error notification <u>must be made visible</u> in the system. | |

1.10. IZ-AD-10_Historical_IIS-SysError

Historical administration resulting in system error

Test Story

| |
|---|
| Description |
| A patient is seen at a clinic. A historical vaccination is recorded but the IIS is unable to process the administration message, rejects it and returns a fatal error in the acknowledgement message. |
| Comments |
| The test case simulates the IIS issuing an acknowledgement error due to an internal error even though the message is valid. |
| Pre Condition |
| No PreCondition |
| Post Condition |
| The returned error must be visible in the EHR. |
| Test Objectives |
| This test case assesses the ability of the EHR to accept an acknowledgement message with a fatal system error being returned by the IIS. |
| Evaluation Criteria |
| Administered Message: Validation Report with no Errors Acknowledgement Message: An indication of a error (See Juror Document) |
| Notes for Testers |
| No Note |

1.10.1. IZ-AD-10.1_Send_V04_Z22

Tests the ability to create a valid VXU^V04 message

Test Story

| |
|---|
| Description |
| A 68 year old male, Manuel Diego Vasquez, comes to a clinic for a physical. A clinic staff member collects basic patient demographic information including name, date of birth and sex. The patient reports that he received a pneumococcal vaccination at a local pharmacy on October 21, 2014. The clinic staff determine that no further vaccinations are required. A clinician, Lily Jackson (ID 7824) enters the historical data into the EHR and transmits it to the IIS. |
| Comments |
| No Comments |
| Pre Condition |
| No PreCondition |
| Post Condition |
| No PostCondition |
| Test Objectives |
| |
| Evaluation Criteria |
| Message Validation Report. |
| Notes for Testers |
| No Note |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|------------------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |

| | | | | |
|--|------------|----------------------------------|------------------------------|------------------------------|
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20150625072816.601-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-AD-10.1_Send_V04_Z22 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| | MSH-22.6 | Assigning Authority | | |
| | MSH-22.6.1 | Namespace ID | | Indifferent |
| | MSH-22.6.2 | Universal ID | | Indifferent |
| | MSH-22.6.3 | Universal ID Type | | Indifferent |
| | MSH-22.7 | Identifier Type | | Indifferent |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.10 | Code Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|-----------|--|------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 21142 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Vasquez | Presence-Content Indifferent |
| PID-5.2 | Given Name | Manuel | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Diego | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19470215 | Presence-Content Indifferent |

| | | | |
|-------------|----------------------------------|------------------------|------------------------------|
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 227 Park Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5555815 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | Internet | Value-Test Case Fixed |
| PID-13[2].4 | Email Address | Manuel.Vasquez@isp.com | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2135-2 | Value-Test Case Fixed |
| PID-22.2 | Text | Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |

| | | | |
|----------|-----------------------------|---|-----------------------|
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|---------------------|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 4486 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31165 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|------|---------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub- ID Counter | 1 | Value-Profile Fixed |
| | Date/Time Start of | | |

| | | | |
|------------|--|--|---------------------------------|
| RXA-3 | Administration | | |
| RXA-3.1 | Time | 20141021 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 152 | Value-Test Case Fixed |
| RXA-5.2 | Text | Pneumococcal Conjugate, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding System | CVX | Value-Profile Fixed |
| RXA-6 | Administered Amount | 999 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | Indifferent |
| RXA-7.2 | Text | | Indifferent |
| RXA-7.3 | Name of Coding System | | Indifferent |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |

| | | | |
|----------|------------------------------------|----|-----------------------|
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|---------------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625072816.601- | Presence-System |

| | | | |
|------------|------------------------------------|------------------------------|------------------------------|
| | | 0500 | Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | VXU | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | V04 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | VXU_V04 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-AD-10.1_Send_V04_Z22 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z22 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | Indifferent |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | | Indifferent |
| MSH-22.10 | Organization Identifier | | Indifferent |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | Indifferent |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | | Indifferent |
| MSH-23.10 | Organization Identifier | | Indifferent |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| PID-1 | Set ID - PID | 1 | Value-Profile Fixed |
| PID-3 | Patient Identifier List | | |
| PID-3.1 | ID Number | 21142 | Presence-Content Indifferent |
| PID-3.4 | Assigning Authority | | |
| PID-3.4.1 | Namespace ID | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID | | Indifferent |
| PID-3.4.3 | Universal ID Type | | Indifferent |
| PID-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Vasquez | Presence-Content Indifferent |
| PID-5.2 | Given Name | Manuel | Presence-Content Indifferent |
| PID-5.3 | Second and Further Given Names or Initials Thereof | Diego | Presence-Content Indifferent |
| PID-5.7 | Name Type Code | L | Value-Test Case Fixed |
| PID-6 | Mother's Maiden Name | | |
| PID-6.1 | Family Name | | |
| PID-6.1.1 | Surname | | Indifferent |
| PID-6.7 | Name Type Code | | Indifferent |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19470215 | Presence-Content Indifferent |
| PID-8 | Administrative Sex | M | Value-Test Case Fixed |
| PID-10 | Race | | |
| PID-10.1 | Identifier | 2106-3 | Value-Test Case Fixed |
| PID-10.2 | Text | White | Presence-Test Case Proper |
| PID-10.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 227 Park Ave | Presence-Content Indifferent |
| PID-11.2 | Other Designation | | Indifferent |
| PID-11.3 | City | Bozeman | Presence-Content Indifferent |

| | | | |
|-------------|----------------------------------|------------------------|---------------------------------|
| PID-11.4 | State or Province | MT | Presence-Content Indifferent |
| PID-11.5 | Zip or Postal Code | 59715 | Presence-Content Indifferent |
| PID-11.6 | Country | USA | Presence-Content Indifferent |
| PID-11.7 | Address Type | P | Value-Test Case Fixed |
| PID-13[1] | Phone Number - Home | | |
| PID-13[1].2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| PID-13[1].3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| PID-13[1].4 | Email Address | | NonPresence |
| PID-13[1].6 | Area/City Code | 406 | Presence-Content Indifferent |
| PID-13[1].7 | Local Number | 5555815 | Presence-Content Indifferent |
| PID-13[2] | Phone Number - Home | | |
| PID-13[2].2 | Telecommunication Use Code | NET | Value-Test Case Fixed |
| PID-13[2].3 | Telecommunication Equipment Type | Internet | Value-Test Case Fixed |
| PID-13[2].4 | Email Address | Manuel.Vasquez@isp.com | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code | | NonPresence |
| PID-13[2].7 | Local Number | | NonPresence |
| PID-22 | Ethnic Group | | |
| PID-22.1 | Identifier | 2135-2 | Value-Test Case Fixed |
| PID-22.2 | Text | Hispanic or Latino | Presence-Test Case Proper |
| PID-22.3 | Name of Coding System | CDCREC | Value-Profile Fixed |
| PID-24 | Multiple Birth Indicator | N | Value-Test Case Fixed |
| PID-25 | Birth Order | 1 | Indifferent |
| PID-29 | Patient Death Date and Time | | |
| PID-29.1 | Time | | NonPresence |
| PID-30 | Patient Death Indicator | N | Value-Test Case Fixed |

PD1 : Patient Additional Demographic

| Location | Data Element | Data | Categorization |
|----------|---|--------------------|------------------------------|
| PD1-11 | Publicity Code | | |
| PD1-11.1 | Identifier | 01 | Value-Test Case Fixed |
| PD1-11.2 | Text | No reminder/recall | Presence-Test Case Proper |
| PD1-11.3 | Name of Coding System | HL70215 | Value-Profile Fixed |
| PD1-12 | Protection Indicator | N | Value-Test Case Fixed |
| PD1-13 | Protection Indicator Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-16 | Immunization Registry Status | A | Value-Test Case Fixed |
| PD1-17 | Immunization Registry Status Effective Date | 20150625 | Presence-Content Indifferent |
| PD1-18 | Publicity Code Effective Date | 20150625 | Presence-Content Indifferent |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|------------|--|--------------|------------------------------|
| ORC-1 | Order Control | RE | Value-Profile Fixed |
| ORC-2 | Placer Order Number | | |
| ORC-2.1 | Entity Identifier | 4486 | Presence-Content Indifferent |
| ORC-2.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-2.3 | Universal ID | | Indifferent |
| ORC-2.4 | Universal ID Type | | Indifferent |
| ORC-3 | Filler Order Number | | |
| ORC-3.1 | Entity Identifier | 31165 | Presence-Content Indifferent |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | Presence-Content Indifferent |
| ORC-3.3 | Universal ID | | Indifferent |
| ORC-3.4 | Universal ID Type | | Indifferent |
| ORC-10 | Entered By | | |
| ORC-10.1 | ID Number | 7824 | Presence-Content Indifferent |
| ORC-10.2 | Family Name | | |
| ORC-10.2.1 | Surname | Jackson | Presence-Content Indifferent |
| ORC-10.3 | Given Name | Lily | Presence-Content Indifferent |
| ORC-10.4 | Second and Further Given Names or Initials Thereof | Suzanne | Presence-Content Indifferent |

| | | | |
|------------|--|-----------------|---------------------------------|
| ORC-10.9 | Assigning Authority | | |
| ORC-10.9.1 | Namespace ID | NIST-PI-1 | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID | | Indifferent |
| ORC-10.9.3 | Universal ID Type | | Indifferent |
| ORC-10.10 | Name Type Code | L | Value-Test Case Fixed |
| ORC-10.13 | Identifier Type Code | PRN | Value-Test Case Fixed |
| ORC-12 | Ordering Provider | | |
| ORC-12.1 | ID Number | | Indifferent |
| ORC-12.2 | Family Name | | |
| ORC-12.2.1 | Surname | | Indifferent |
| ORC-12.3 | Given Name | | Indifferent |
| ORC-12.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| ORC-12.9 | Assigning Authority | | |
| ORC-12.9.1 | Namespace ID | | Indifferent |
| ORC-12.9.2 | Universal ID | | Indifferent |
| ORC-12.9.3 | Universal ID Type | | Indifferent |
| ORC-12.10 | Name Type Code | | Indifferent |
| ORC-12.13 | Identifier Type Code | | Indifferent |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | Presence-Content Indifferent |
| ORC-17.2 | Text | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3 | Name of Coding System | HL70362 | Value-Profile Fixed |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|---|---------------------------------|
| RXA-1 | Give Sub-ID Counter | 0 | Value-Profile Fixed |
| RXA-2 | Administration Sub-ID Counter | 1 | Value-Profile Fixed |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20141021 | Presence-Content Indifferent |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 152 | Value-Test Case Fixed |
| RXA-5.2 | Text | Pneumococcal Conjugate, unspecified formulation | Presence-Test Case Proper |
| RXA-5.3 | Name of Coding | CVX | Value-Profile Fixed |

| | | | |
|------------|--|---------------------------|---------------------------|
| | System | | |
| RXA-6 | Administered Amount | 999 | Presence-Test Case Proper |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | Indifferent |
| RXA-7.2 | Text | | Indifferent |
| RXA-7.3 | Name of Coding System | | Indifferent |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | Value-Test Case Fixed |
| RXA-9.2 | Text | Historical Administration | Presence-Test Case Proper |
| RXA-9.3 | Name of Coding System | NIP001 | Value-Profile Fixed |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | Indifferent |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | Indifferent |
| RXA-10.3 | Given Name | | Indifferent |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | Indifferent |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | | Indifferent |
| RXA-10.9.2 | Universal ID | | Indifferent |
| RXA-10.9.3 | Universal ID Type | | Indifferent |
| RXA-10.10 | Name Type Code | | Indifferent |
| RXA-10.13 | Identifier Type Code | | Indifferent |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | Indifferent |
| RXA-11.4.2 | Universal ID | | Indifferent |
| RXA-11.4.3 | Universal ID Type | | Indifferent |
| RXA-15 | Substance Lot Number | | Indifferent |
| RXA-16 | Substance Expiration Date | | |
| RXA-16.1 | Time | | Indifferent |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | Indifferent |
| RXA-17.2 | Text | | Indifferent |
| RXA-17.3 | Name of Coding System | | Indifferent |
| | Substance/Treatment | | |

| | | | |
|----------|-----------------------|----|-----------------------|
| RXA-18 | Refusal Reason | | |
| RXA-18.1 | Identifier | | NonPresence |
| RXA-18.2 | Text | | NonPresence |
| RXA-18.3 | Name of Coding System | | NonPresence |
| RXA-20 | Completion Status | CP | Value-Test Case Fixed |
| RXA-21 | Action Code - RXA | A | Value-Test Case Fixed |

Test Data Specification

Patient Information

| Element | Data |
|--------------------------|-----------------------------------|
| Patient Name | Manuel Diego Vasquez |
| Mother's Maiden Name | |
| ID Number | 21142 |
| Date/Time of Birth | 02/15/1947 |
| Administrative Sex | Male |
| Patient Address | 227 Park Ave Bozeman MT 59715 USA |
| Local Number | (406)555-5815 |
| Email | Manuel.Vasquez@isp.com |
| Race | White |
| Ethnic Group | Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/25/2015 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---|
| Administered Vaccine | Pneumococcal Conjugate, unspecified formulation |
| Date/Time Start of Administration | 10/21/2014 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

Patient Information

| Element | Data |
|--------------------------|-----------------------------------|
| Patient Name | Manuel Diego Vasquez |
| Mother's Maiden Name | |
| ID Number | 21142 |
| Date/Time of Birth | 02/15/1947 |
| Administrative Sex | Male |
| Patient Address | 227 Park Ave Bozeman MT 59715 USA |
| Local Number | (406)555-5815 |
| Email | Manuel.Vasquez@isp.com |
| Race | White |
| Ethnic Group | Hispanic or Latino |
| Multiple Birth Indicator | No |
| Birth Order | 1 |

Immunization Registry Information

| Element | Data |
|---|--------------------|
| Immunization Registry Status | Active |
| Immunization Registry Status Effective Date | 06/25/2015 |
| Publicity Code | No reminder/recall |
| Publicity Code Effective Date | 06/25/2015 |
| Protection Indicator | No |
| Protection Indicator Effective Date | 06/25/2015 |

Vaccine Administration Information

| Element | Data |
|------------------------------------|---|
| Administered Vaccine | Pneumococcal Conjugate, unspecified formulation |
| Date/Time Start of Administration | 10/21/2014 |
| Administered Amount | 999 |
| Administered Units | |
| Administration Notes | Historical Administration |
| Administering Provider | |
| Substance Lot Number | |
| Substance Expiration Date | |
| Substance Manufacturer Name | |
| Substance/Treatment Refusal Reason | |
| Completion Status | Complete |
| Action Code | Add |
| Route | |
| Administration Site | |
| Entering Organization | NISTEHRFacility |
| Entered By | Lily Jackson |
| Ordered By | |

1.10.2. IZ-AD-10.2_Receive_ACK_Z23

Tests the ability to consume an ACK message containing a system error

Test Story

| |
|---|
| Description |
| Due to an error in the IIS software, the IIS is unable to recognize the HL7 version ID sent in MSH-12 even though it is valid. The acknowledgement message returned contains an error for an unsupported version ID. |
| Comments |
| No Comments |
| Pre Condition |
| A VXU message is generated by the EHR. |
| Post Condition |
| No PostCondition |
| Test Objectives |
| Support for accepting an acknowledgement message with a fatal system error being returned by the IIS and to display some notification to an end user. |
| Evaluation Criteria |
| The error returned in the acknowledgement message is visible in the system responsible for the content of the administration message. |
| Notes for Testers |
| Important note regarding the MSH-10 and MSA-2: The NIST acknowledgment message is predefined and is based on the VXU message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the ACK message. The NIST ACK test message can be modified such that MSA-2 matches MSH-10 of the VXU message generated by the system-under test. |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |

| | | |
|------------|----------------------------------|---------------------------------|
| MSH-4.1 | Namespace ID | NISTIISFAC |
| MSH-4.2 | Universal ID | |
| MSH-4.3 | Universal ID Type | |
| MSH-5 | Receiving Application | |
| MSH-5.1 | Namespace ID | NISTEHRAPP |
| MSH-5.2 | Universal ID | |
| MSH-5.3 | Universal ID Type | |
| MSH-6 | Receiving Facility | |
| MSH-6.1 | Namespace ID | NISTEHRFAC |
| MSH-6.2 | Universal ID | |
| MSH-6.3 | Universal ID Type | |
| MSH-7 | Date/Time Of Message | |
| MSH-7.1 | Time | 20150625072816.602-0500 |
| MSH-9 | Message Type | |
| MSH-9.1 | Message Code | ACK |
| MSH-9.2 | Trigger Event | V04 |
| MSH-9.3 | Message Structure | ACK |
| MSH-10 | Message Control ID | NIST-IZ-AD-10.2_Receive_ACK_Z23 |
| MSH-11 | Processing ID | |
| MSH-11.1 | Processing ID | P |
| MSH-12 | Version ID | |
| MSH-12.1 | Version ID | 2.5.1 |
| MSH-15 | Accept Acknowledgment Type | NE |
| MSH-16 | Application Acknowledgment Type | NE |
| MSH-21 | Message Profile Identifier | |
| MSH-21.1 | Entity Identifier | Z23 |
| MSH-21.2 | Namespace ID | CDCPHINVS |
| MSH-21.3 | Universal ID | |
| MSH-21.4 | Universal ID Type | |
| MSH-22 | Sending Responsible Organization | |
| MSH-22.1 | Organization Name | NISTIISFAC |
| MSH-22.6 | Assigning Authority | |
| MSH-22.6.1 | Namespace ID | |
| MSH-22.6.2 | Universal ID | |
| MSH-22.6.3 | Universal ID Type | |
| MSH-22.7 | Identifier Type Code | |
| | Organization | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-22.10 | Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AR | |
| MSA-2 | Message Control ID | NIST-IZ-AD-10.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | MSH | |
| ERR-2.2 | Segment Sequence | 12 | |
| ERR-2.3 | Field Position | 1 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 203 | |
| ERR-3.2 | Text | Unsupported Version ID | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | E | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | | |
| ERR-5.2 | Text | | |
| ERR-5.3 | Name of Coding System | | |
| ERR-8 | User Message | Version ID not recognized - message rejected | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|---------------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150625072816.602-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | ACK | |
| MSH-9.2 | Trigger Event | V04 | |
| MSH-9.3 | Message Structure | ACK | |
| MSH-10 | Message Control ID | NIST-IZ-AD-10.2_Receive_ACK_Z23 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z23 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | | |
| MSH-22.10 | Organization Identifier | | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | | |
| MSH-23.10 | Organization Identifier | | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AR | |
| MSA-2 | Message Control ID | NIST-IZ-AD-10.1_Send_V04_Z22 | |

ERR : Error

| Location | Data Element | Data | Categorization |
|----------|------------------------|--|----------------|
| ERR-2 | Error Location | | |
| ERR-2.1 | Segment ID | MSH | |
| ERR-2.2 | Segment Sequence | 12 | |
| ERR-2.3 | Field Position | 1 | |
| ERR-2.4 | Field Repetition | 1 | |
| ERR-2.5 | Component Number | | |
| ERR-2.6 | Sub-Component Number | | |
| ERR-3 | HL7 Error Code | | |
| ERR-3.1 | Identifier | 203 | |
| ERR-3.2 | Text | Unsupported Version ID | |
| ERR-3.3 | Name of Coding System | HL70357 | |
| ERR-4 | Severity | E | |
| ERR-5 | Application Error Code | | |
| ERR-5.1 | Identifier | | |
| ERR-5.2 | Text | | |
| ERR-5.3 | Name of Coding System | | |
| ERR-8 | User Message | Version ID not recognized - message rejected | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Return an Acknowledgement | | | | | |
|-----------------------------------|--|------|------|--------------------------|--------------------------|
| Test Case ID | IZ-AD-10_Historical_IIS-SysError | | | | |
| Juror ID | | | | | |
| Juror Name | | | | | |
| HIT System Tested | | | | | |
| Inspection Date/Time | | | | | |
| Inspection Settlement (Pass/Fail) | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Pass</th> <th>Fail</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> | Pass | Fail | <input type="checkbox"/> | <input type="checkbox"/> |
| Pass | Fail | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Reason Failed | | | | | |
| Juror Comments | | | | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the health information technology's ability to receive and process a Return an Acknowledgement Z23 message (in response to a "Send Unsolicited Immunization Update Using a VXU" Z22 message) in which an Error is returned in the message.

The exact wording and format of the display in the health information technology (HIT) is not in-scope for this test.

| Return an Acknowledgement | |
|---|--|
| The receiving HIT system being tested shall process the Z23 ACK error notification message correctly; the issue identified in the error notification <u>must be made visible</u> in the system. | |

2. Evaluated History and Forecast Group

Test the EHR-S capability to:

- (1) To create well-formed queries
- (2) Accept the response messages

The possibilities include:

- (1) evaluated history and forecast
- (2) too many patients found, or
- (3) no patients found.

A juror document (inspection check list) is provided that indicates the content that is expected to be displayed.

- (3) Display of evaluated history and forecast

Test Cases consists of 2 steps:

- (1) create query messages based on Immunization Messaging Standard (Z44 Profile) and specific Test Data, and
- (2) receive (Z42 Profile) messages and display evaluated history and forecast OR receive (Z33 Profile) and display too many patients found or no patients found.

2.1. IZ-QR-1_Query_Child

Query for a child with immunization history. A response message with evaluated history and forecast is returned.

Test Story

Description

A male child patient, Cameron A. Fairchild, is brought to the clinic for an annual visit. A staff person locates his medical record in the EHR-S. The staff person confirms demographic information, including address. The staff person triggers a request to the IIS for an evaluated history and forecast for the child. The IIS performs a search for Cameron A. Fairchild and finds one high-confidence match. The IIS generates an evaluated history and forecast for Cameron and returns this to the EHR-S. One dose of vaccine was not administrated at the correct age and is marked as not valid. The EHR-S displays the evaluated history and forecast, including the not valid dose.

Comments

No Comments

Pre Condition

Person exists in the querying system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have existing immunization events in their EHR.

Person does have an immunization history in the IIS (simulated by the NIST Test Tool).

Post Condition

The clinician is able to view the evaluated history and forecast from the IIS. There is no obligation to incorporate the data into the EHR-S or maintain the displayed evaluated history and forecast.

Test Objectives

Evaluates EHR-S ability to create a well formed query for a child. Evaluates EHR-S ability to accept and display a response with evaluated history and forecast for that person.

Evaluation Criteria

Tester inspects patient record; confirms that the patients does not have existing immunization events.

Confirms valid query message using Message Validation Report.

Confirms valid receipt and display of response message using the Juror Document.

Notes for Testers

The NIST tool is simulating a response from the IIS.

Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test.

2.1.1. IZ-QR-1.1_Query_Q11_Z44

Query requests an evaluated history and forecast for a young adult

Test Story

Description

A male child patient, Cameron A. Fairchild, is brought to the clinic for an annual visit. A staff person locates his medical record in the EHR-S. The staff person confirms demographic information, including address. The Staff person triggers a request to the IIS for an evaluated history and forecast for the child.

Comments

Most of the test data is categorized as Test Case Fixed. It is important that the data is entered into the querying system as specified to enable linking the response message to the patient record.

Pre Condition

Person exists in the system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have existing immunization events in their EHR.

Person does have an immunization history in the IIS.

Post Condition

The IIS return an evaluated history and forecast for the person.

Test Objectives

Test the ability of the system to successfully create a query message based on the given test data.

Evaluation Criteria

Tester inspects patient record; confirms that the patients does not have existing immunization events.

Confirms valid query message using Message Validation Report.

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |

| | | | |
|----------|----------------------------------|------------------------------|------------------------------|
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-1.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-1.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 171122 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Fairchild | Value-Test Case Fixed |
| QPD-4.2 | Given Name | Cameron | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or | A | Value-Test Case Fixed |

| | | | |
|-----------|----------------------------------|-------------------|-----------------------|
| | Initials Thereof | | |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Fairlady | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20090214 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 105 Laurel Run Rd | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Bozeman | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | | Indifferent |
| QPD-8.6 | Country | | Indifferent |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | | Indifferent |
| QPD-9.3 | Telecommunication Equipment Type | | Indifferent |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | | Indifferent |
| QPD-9.7 | Local Number | | Indifferent |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

MSH - Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|------------------------------|------------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IQ-QR-1.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |

| | | | |
|------------|------------------------------------|---------------|------------------------|
| MSH-21.1 | Entity Identifier Namespace ID | Z44 CDCPHINVS | Value-Profile Fixed |
| MSH-21.2 | Universal ID | | Value-Profile Fixed |
| MSH-21.3 | Universal ID Type | | Indifferent |
| MSH-21.4 | Sending Responsible Organization | | Indifferent |
| MSH-22 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.1 | Assigning Authority | | |
| MSH-22.6 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.1 | Universal ID | | Indifferent |
| MSH-22.6.2 | Universal ID Type | | Indifferent |
| MSH-22.6.3 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.7 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-1.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 171122 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |

| | | | |
|-----------|--|-------------------|-----------------------|
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Fairchild | Value-Test Case Fixed |
| QPD-4.2 | Given Name | Cameron | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | A | Value-Test Case Fixed |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Fairlady | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20090214 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 105 Laurel Run Rd | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Bozeman | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | | Indifferent |
| QPD-8.6 | Country | | Indifferent |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | | Indifferent |
| QPD-9.3 | Telecommunication Equipment Type | | Indifferent |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | | Indifferent |
| QPD-9.7 | Local Number | | Indifferent |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

Test Data Specification

Patient Information

| Element | Data |
|----------------------|------------------------------|
| Patient Name | Cameron A Fairchild |
| Mother's Maiden Name | Fairlady |
| ID Number | 171122 |
| Date/Time of Birth | 02/14/2009 |
| Sex | Male |
| Patient Address | 105 Laurel Run Rd Bozeman MT |
| Patient Phone | |
| Birth Indicator | No |
| Birth Order | |

Patient Information

| Element | Data |
|----------------------|------------------------------|
| Patient Name | Cameron A Fairchild |
| Mother's Maiden Name | Fairlady |
| ID Number | 171122 |
| Date/Time of Birth | 02/14/2009 |
| Sex | Male |
| Patient Address | 105 Laurel Run Rd Bozeman MT |
| Patient Phone | |
| Birth Indicator | No |
| Birth Order | |

2.1.2. IZ-QR-1.2_Response_K11_Z42

No Description

Test Story

Description

The IIS performs a search for Cameron A. Fairchild and finds one high-confidence match. The IIS generates an evaluated history and forecast for Cameron and returns this to the EHR-S. One dose of vaccine was not administrated at the correct age and is marked as not valid. The EHR-S displays the evaluated history and forecast, including the not valid dose.

Comments

No Comments

Pre Condition

A query is performed by the sending system. The IIS (simulated by the NIST test tool) contains an immunization events for the person.

Post Condition

The response is made available to the EHR-S for processing. The clinician is able to view the evaluated history and forecast from the IIS. There is no obligation to incorporate the data into the EHR-S or maintain the displayed evaluated history and forecast.

Test Objectives

Receive a response message containing the evaluated history and forecast; display evaluated history and forecast.

Evaluation Criteria

Confirms valid receipt and display of response message using the Juror Document.

Notes for Testers

Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test.

Important note regarding the MSH-10 and MSA-2: The NIST response message is predefined and is based on the query message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the response message. The NIST response test message can be modified such that MSA-2 matches MSH-10 of the query message generated by the system-under test.

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | |
|----------|----------------------------------|---------------------------------|
| MSH-1 | Field Separator | |
| MSH-2 | Encoding Characters | ^~\& |
| MSH-3 | Sending Application | |
| MSH-3.1 | Namespace ID | NISTIISAPP |
| MSH-3.2 | Universal ID | |
| MSH-3.3 | Universal ID Type | |
| MSH-4 | Sending Facility | |
| MSH-4.1 | Namespace ID | NISTIISFAC |
| MSH-4.2 | Universal ID | |
| MSH-4.3 | Universal ID Type | |
| MSH-5 | Receiving Application | |
| MSH-5.1 | Namespace ID | NISTEHRAPP |
| MSH-5.2 | Universal ID | |
| MSH-5.3 | Universal ID Type | |
| MSH-6 | Receiving Facility | |
| MSH-6.1 | Namespace ID | NISTEHRFAC |
| MSH-6.2 | Universal ID | |
| MSH-6.3 | Universal ID Type | |
| MSH-7 | Date/Time Of Message | |
| MSH-7.1 | Time | 20151031145233-0500 |
| MSH-9 | Message Type | |
| MSH-9.1 | Message Code | RSP |
| MSH-9.2 | Trigger Event | K11 |
| MSH-9.3 | Message Structure | RSP_K11 |
| MSH-10 | Message Control ID | NIST-IZ-QR-1.2_Response_K11_Z42 |
| MSH-11 | Processing ID | |
| MSH-11.1 | Processing ID | P |
| MSH-12 | Version ID | |
| MSH-12.1 | Version ID | 2.5.1 |
| MSH-15 | Accept Acknowledgment Type | NE |
| MSH-16 | Application Acknowledgment Type | NE |
| MSH-21 | Message Profile Identifier | |
| MSH-21.1 | Entity Identifier | Z42 |
| MSH-21.2 | Namespace ID | CDCPHINVS |
| MSH-21.3 | Universal ID | |
| MSH-21.4 | Universal ID Type | |
| MSH-22 | Sending Responsible Organization | |

| | | |
|------------|------------------------------------|------------|
| MSH-22.1 | Organization Name | NISTHISFAC |
| MSH-22.6 | Assigning Authority | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 |
| MSH-22.6.2 | Universal ID | |
| MSH-22.6.3 | Universal ID Type | |
| MSH-22.7 | Identifier Type Code | XX |
| MSH-22.10 | Organization Identifier | 100-3322 |
| MSH-23 | Receiving Responsible Organization | |
| MSH-23.1 | Organization Name | NISTEHRFAC |
| MSH-23.6 | Assigning Authority | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 |
| MSH-23.6.2 | Universal ID | |
| MSH-23.6.3 | Universal ID Type | |
| MSH-23.7 | Identifier Type Code | XX |
| MSH-23.10 | Organization Identifier | 100-6482 |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-1.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-1.1-2015 | |
| QAK-2 | Query Response Status | OK | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|--------------------|-------------------|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| | | Request Evaluated | |

| | | | |
|-----------|--|----------------------|--|
| QPD-1.2 | Text | History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-1.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 171122 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Fairchild | |
| QPD-4.2 | Given Name | Cameron | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | A | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Fairlady | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20090214 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 105 Laurel Run Rd | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Bozeman | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | | |
| QPD-8.6 | Country | | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | | |
| QPD-9.3 | Telecommunication Equipment Type | | |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | | |
| QPD-9.7 | Local Number | | |
| QPD-10 | Multiple birth | | |

| | | | |
|--------|--------------------------|--|--|
| QPD-11 | indicator Birth order | | |
|--------|--------------------------|--|--|

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|--------------|--|-------------------|----------------|
| PID-1 | Set ID - PID | 1 | |
| PID-3[1] | Patient Identifier List | | |
| PID-3[1].1 | ID Number | 171122 | |
| PID-3[1].4 | Assigning Authority | | |
| PID-3[1].4.1 | Namespace ID | NIST-MPI-1 | |
| PID-3[1].4.2 | Universal ID | | |
| PID-3[1].4.3 | Universal ID Type | | |
| PID-3[1].5 | Identifier Type Code | MR | |
| PID-3[2] | Patient Identifier List | | |
| PID-3[2].1 | ID Number | 34500907 | |
| PID-3[2].4 | Assigning Authority | | |
| PID-3[2].4.1 | Namespace ID | NIST-IIS-MPI | |
| PID-3[2].4.2 | Universal ID | | |
| PID-3[2].4.3 | Universal ID Type | | |
| PID-3[2].5 | Identifier Type Code | SR | |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Fairchild | |
| PID-5.2 | Given Name | Cameron | |
| PID-5.3 | Second and Further Given Names or Initials Thereof | A | |
| PID-5.7 | Name Type Code | L | |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20090214 | |
| PID-8 | Administrative Sex | M | |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 105 Laurel Run Rd | |
| PID-11.2 | Other Designation | | |
| PID-11.3 | City | Bozeman | |
| PID-11.4 | State or Province | MT | |
| PID-11.5 | Zip or Postal Code | | |
| PID-11.6 | Country | | |
| PID-11.7 | Address Type | L | |
| PID-30 | Patient Death Indicator | | |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197023 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197027 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 9999 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|------------|--|-------------------|--|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20090415 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 31 | |
| RXA-5.2 | Text | Hep B Peds NOS | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historical record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID | | |

| | | | |
|----------|--|----|--|
| RXA-17 | Type Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20090314 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 48 | |
| RXA-5.2 | Text | HIB PRP-T | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |

| | | | |
|------------|--|---------------|--|
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20091011 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 110 | |
| RXA-5.2 | Text | DTAP-Hep B-IPV | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered | 999 | |

| | | | |
|------------|--|------------------------------|--|
| | Amount | | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |

| | | | |
|----------|-----------------------|----|--|
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20100411 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 08 | |
| RXA-5.2 | Text | Hep BPEDS | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |

| | | | |
|------------|------------------------------------|-----|--|
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20100415 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 03 | |
| RXA-5.2 | Text | MMR | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |

| | | | |
|------------|--|--------|--|
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-------------------------------|------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| | | | |

| | | | |
|------------|--|------------------|--|
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20091031 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 998 | |
| RXA-5.2 | Text | no vaccine admin | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | |
| RXA-9.2 | Text | | |
| RXA-9.3 | Name of Coding System | | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |

| | | | |
|----------|------------------------------------|----|--|
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | NA | |

OBX[*]

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 17 | |
| OBX-5.2 | Text | HIB NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | N | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | ST | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30982-3 | |
| OBX-3.2 | Text | Reason applied | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Too Young | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 10 | |
| OBX-5.2 | Text | IPV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 20 | |
| OBX-5.2 | Text | DTAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20150214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20100614 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 10 | |
| OBX-5.2 | Text | IPV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20100214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 107 | |
| OBX-5.2 | Text | DTAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 10 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 20100214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|-----------------------|------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |

| | | | |
|------------|------------------------------------|---------------------------------|--|
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20151031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-1.2_Response_K11_Z42 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z42 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization | 100-6482 | |

Identifier

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-1.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-1.1-2015 | |
| QAK-2 | Query Response Status | OK | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|--|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-1.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 171122 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Fairchild | |
| QPD-4.2 | Given Name | Cameron | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | A | |

| | | | |
|-----------|----------------------------------|-------------------|--|
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Fairlady | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20090214 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 105 Laurel Run Rd | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Bozeman | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | | |
| QPD-8.6 | Country | | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | | |
| QPD-9.3 | Telecommunication Equipment Type | | |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | | |
| QPD-9.7 | Local Number | | |
| QPD-10 | Multiple birth indicator | | |
| QPD-11 | Birth order | | |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|--------------|--|-------------------|----------------|
| PID-1 | Set ID - PID | 1 | |
| PID-3[1] | Patient Identifier List | | |
| PID-3[1].1 | ID Number | 171122 | |
| PID-3[1].4 | Assigning Authority | | |
| PID-3[1].4.1 | Namespace ID | NIST-MPI-1 | |
| PID-3[1].4.2 | Universal ID | | |
| PID-3[1].4.3 | Universal ID Type | | |
| PID-3[1].5 | Identifier Type Code | MR | |
| PID-3[2] | Patient Identifier List | | |
| PID-3[2].1 | ID Number | 34500907 | |
| PID-3[2].4 | Assigning Authority | | |
| PID-3[2].4.1 | Namespace ID | NIST-IIS-MPI | |
| PID-3[2].4.2 | Universal ID | | |
| PID-3[2].4.3 | Universal ID Type | | |
| PID-3[2].5 | Identifier Type Code | SR | |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Fairchild | |
| PID-5.2 | Given Name | Cameron | |
| PID-5.3 | Second and Further Given Names or Initials Thereof | A | |
| PID-5.7 | Name Type Code | L | |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 20090214 | |
| PID-8 | Administrative Sex | M | |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 105 Laurel Run Rd | |
| PID-11.2 | Other Designation | | |
| PID-11.3 | City | Bozeman | |
| PID-11.4 | State or Province | MT | |
| PID-11.5 | Zip or Postal Code | | |
| PID-11.6 | Country | | |
| PID-11.7 | Address Type | L | |
| PID-30 | Patient Death Indicator | | |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197023 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197027 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 197028 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 9999 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|------------|--|-------------------|--|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20090415 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 31 | |
| RXA-5.2 | Text | Hep B Peds NOS | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historical record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID | | |

| | | | |
|----------|--|----|--|
| RXA-17 | Type Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20090314 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 48 | |
| RXA-5.2 | Text | HIB PRP-T | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |

| | | | |
|------------|--|---------------|--|
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|----------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20091011 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 110 | |
| RXA-5.2 | Text | DTAP-Hep B-IPV | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered | 999 | |

| | | | |
|------------|--|------------------------------|--|
| | Amount | | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |

| | | | |
|----------|-----------------------|----|--|
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20100411 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 08 | |
| RXA-5.2 | Text | Hep BPEDS | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |

| | | | |
|------------|------------------------------------|-----|--|
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-----------------------------------|------------------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20100415 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 03 | |
| RXA-5.2 | Text | MMR | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 01 | |
| RXA-9.2 | Text | historic immunization record | |

| | | | |
|------------|--|--------|--|
| RXA-9.3 | Name of Coding System | NIP001 | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RxA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|-------------------------------|------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| | | | |

| | | | |
|------------|--|------------------|--|
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20091031 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 998 | |
| RXA-5.2 | Text | no vaccine admin | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | |
| RXA-9.2 | Text | | |
| RXA-9.3 | Name of Coding System | | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |

| | | | |
|----------|------------------------------------|----|--|
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | NA | |

OBX[*]

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 17 | |
| OBX-5.2 | Text | HIB NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | N | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | ST | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30982-3 | |
| OBX-3.2 | Text | Reason applied | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Too Young | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 10 | |
| OBX-5.2 | Text | IPV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 20 | |
| OBX-5.2 | Text | DTAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20150214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20100614 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 10 | |
| OBX-5.2 | Text | IPV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20100214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 107 | |
| OBX-5.2 | Text | DTAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 10 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 20100214 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151031 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Evaluated Immunization History and Immunization Forecast | | |
|--|------|--------------------|
| Test Case ID | I | Z-QR-1_Query_Child |
| Juror ID | | |
| Juror Name | | |
| HIT System Tested | | |
| Inspection Date/Time | | |
| Inspection Settlement (Pass/Fail) | Pass | Fail |
| Reason Failed | | |
| Juror Comments | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the EHR technology's ability to display required core data elements from the information received in the Evaluated Immunization History and Immunization Forecast Z42 response message. Additional data from the message or from the EHR are permitted to be displayed by the EHR. Grayed-out fields in the Juror Document indicate where no data for the data element indicated were included in the Z42 message for the given Test Case.

The format of this Juror Document is for ease-of-use by the Tester and does not indicate how the EHR display must be designed.

The Evaluated Immunization History and Immunization Forecast data shown in this Juror Document are derived from the Z42 message provided with the given Test Case; equivalent data are permitted to be displayed by the EHR. The column headings are meant to convey the kind of data to be displayed; equivalent labels/column headings are permitted to be displayed by the EHR.

| Patient Information | | | | |
|--|---------------------|------------|--------|----------------|
| Patient Identifier | Patient Name | DOB | Gender | Tester Comment |
| 171122 | Cameron A Fairchild | 02/14/2009 | Male | |
| When displayed in the EHR with the Evaluated Immunization History and Immunization Forecast, these patient demographics data may be derived from either the received immunization message or the EHR patient record. When displaying demographics from the patient record, the EHR must be able to demonstrate a linkage between the demographics in the message (primarily the patient ID in PID-3.1) and the patient record used for display to ensure that the message was associated with the appropriate patient. | | | | |

| Evaluated Immunization History and Immunization Forecast | |
|--|----------------|
| Immunization Schedule Used | Tester Comment |
| ACIP | |

| Evaluated Immunization History | | | | | | |
|--------------------------------|----------------------|-------------------|------------|-----------------|--------------------|----------------|
| Vaccine Group | Vaccine Administered | Date Administered | Valid Dose | Validity Reason | Completion Status* | Tester Comment |
| Hep B NOS | Hep B Peds NOS | 04/15/2009 | YES | | Complete | |
| HIB NOS | HIB PRP-T | 03/14/2009 | NO | Too Young | Complete | |
| Hep B NOS | DTAP-Hep B-IPV | 10/11/2009 | YES | | Complete | |
| IPV | DTAP-Hep B-IPV | 10/11/2009 | YES | | Complete | |
| DTAP | DTAP-Hep B-IPV | 10/11/2009 | YES | | Complete | |
| Hep B NOS | Hep BPEDS | 04/11/2010 | YES | | Complete | |
| MMR | MMR | 04/15/2010 | YES | | Complete | |

* "Completion Status" refers to the status of the dose of vaccine administered on the indicated date and may be interpreted as "Dose Status". A status of "Complete" means that the vaccine dose was "completely administered" as opposed to "partially administered".

| Immunization Forecast | | | | |
|-----------------------|------------|-----------------------|---------------------|----------------|
| Vaccine Group | Due Date | Earliest Date To Give | Latest Date to Give | Tester Comment |
| MMR | 02/14/2015 | 06/14/2010 | | |
| IPV | 02/14/2010 | | | |
| DTAP | 02/14/2010 | | | |

2.2. IZ-QR-2_Query_Adult

Query for an adult using the most significant query parameters. The patient is found in the IIS. A response message is returned with a signal immunization event and multiple immunization recommendations.

Test Story

Description

Query for an adult using the most significant query parameters. The patient is found in the IIS. A response message is returned with a single immunization event and multiple immunization recommendations.

An adult male patient, Stanley S. Clement presents to the clinic, seeking an immunization for influenza. A clinic staff member locates his medical record in the electronic health record system. The staff member sees that he has previously had an immunization against influenza. The staff member triggers a request to the IIS to request an evaluated history and forecast for the patient. The IIS performs a search for Stanley S. Clement and finds one high confidence match. The IIS generates an evaluated history and forecast for Mr. Clement and returns this to the EHR-S. The EHR-S displays the evaluated history and forecast to the staff member.

Comments

No Comments

Pre Condition

Person exists in the system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have existing immunization events in their EHR.

Person does have an immunization history in the IIS,

Post Condition

The clinician is able to view the evaluated history and forecast from the IIS. There is no obligation to incorporate the data into the EHR-S or maintain the displayed evaluated history and forecast.

Test Objectives

Evaluates EHR-S ability to create a well formed query for an adult. Evaluates EHR-S ability to accept a response with evaluated history and forecast for that person.

Evaluation Criteria

1. Tester inspects patient record; confirms that the patients does not have existing immunization events.
2. Confirms valid query message using Message Validation Report.
3. Confirms valid receipt and display of response message using the Juror Document.

Notes for Testers

The NIST tool is simulating a response from the IIS.

Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test.



2.2.1. IZ-QR-2.1_Query_Q11_Z44

No Description

Test Story

Description

An adult male patient, Stanley S. Clement presents to the clinic, seeking an immunization for influenza. A clinic staff member locates his medical record in the electronic health record system. The staff member sees that he has previously had an immunization against influenza. The staff member triggers a request to the IIS to request an evaluated history and forecast for the patient.

Comments

Most of the test data is categorized as Test Case Fixed. It is important that the data is entered into the querying system as specified to enable linking the response message to the patient record.

Pre Condition

Person exists in the querying system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have existing immunization events in their EHR.

Person does have an immunization history in the IIS (simulated by the NIST Test Tool).

Post Condition

IIS returns a response message for the person containing a single immunization event and multiple recommendations.

Test Objectives

Test the ability of the system to successfully create a query message based on the given test data.

Evaluation Criteria

Tester inspects patient record; confirms that the patients does not have existing immunization events.

Confirms valid query message using Message Validation Report.

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |

| | | | | |
|--|----------|----------------------------------|------------------------------|------------------------------|
| | MSH-3.2 | Universal ID | | Indifferent |
| | MSH-3.3 | Universal ID Type | | Indifferent |
| | MSH-4 | Sending Facility | | |
| | MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| | MSH-4.2 | Universal ID | | Indifferent |
| | MSH-4.3 | Universal ID Type | | Indifferent |
| | MSH-5 | Receiving Application | | |
| | MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| | MSH-5.2 | Universal ID | | Indifferent |
| | MSH-5.3 | Universal ID Type | | Indifferent |
| | MSH-6 | Receiving Facility | | |
| | MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| | MSH-6.2 | Universal ID | | Indifferent |
| | MSH-6.3 | Universal ID Type | | Indifferent |
| | MSH-7 | Date/Time Of Message | | |
| | MSH-7.1 | Time | 20141031145233-0500 | Presence-System Generated |
| | MSH-9 | Message Type | | |
| | MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| | MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| | MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| | MSH-10 | Message Control ID | NIST-IZ-QR-2.1_Query_Q11_Z44 | Presence-System Generated |
| | MSH-11 | Processing ID | | |
| | MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| | MSH-12 | Version ID | | |
| | MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| | MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| | MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| | MSH-21 | Message Profile Identifier | | |
| | MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| | MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| | MSH-21.3 | Universal ID | | Indifferent |
| | MSH-21.4 | Universal ID Type | | Indifferent |
| | MSH-22 | Sending Responsible Organization | | |
| | MSH-22.1 | Organization Name | NISTEHRFAC | Presence- |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6 | Assigning Authority | | Configuration |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-2.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 648286 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Stanley | Value-Test Case Fixed |
| QPD-4.2 | Given Name | Clement | Value-Test Case Fixed |

| | | | |
|-----------|--|---------------|-----------------------|
| QPD-4.3 | Second and Further Given Names or Initials Thereof | S | Value-Test Case Fixed |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Bell | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 19500214 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 1642 Bear Run | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Bozeman | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59715 | Value-Test Case Fixed |
| QPD-8.6 | Country | USA | Value-Test Case Fixed |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5552020 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCR-1 | Query Priority | I | Value-Test Case Fixed |
| RCR-2 | Quantity Limited Request | | |
| RCR-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCR-2.2 | Units | | |
| RCR-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCR-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCR-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|------------------------------|------------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-2.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-2.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 648286 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |

| | | | |
|-----------|--|---------------|-----------------------|
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Stanley | Value-Test Case Fixed |
| QPD-4.2 | Given Name | Clement | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | S | Value-Test Case Fixed |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Bell | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 19500214 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 1642 Bear Run | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Bozeman | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59715 | Value-Test Case Fixed |
| QPD-8.6 | Country | USA | Value-Test Case Fixed |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5552020 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

Test Data Specification

Patient Information

| Element | Data |
|----------------------|------------------------------------|
| Patient Name | Clement S Stanley |
| Mother's Maiden Name | Bell |
| ID Number | 648286 |
| Date/Time of Birth | 02/14/1950 |
| Sex | Male |
| Patient Address | 1642 Bear Run Bozeman MT 59715 USA |
| Patient Phone | (406)555-2020 |
| Birth Indicator | No |
| Birth Order | |

Patient Information

| Element | Data |
|----------------------|------------------------------------|
| Patient Name | Clement S Stanley |
| Mother's Maiden Name | Bell |
| ID Number | 648286 |
| Date/Time of Birth | 02/14/1950 |
| Sex | Male |
| Patient Address | 1642 Bear Run Bozeman MT 59715 USA |
| Patient Phone | (406)555-2020 |
| Birth Indicator | No |
| Birth Order | |

2.2.2. IZ-QR-2.2_Response_K11_Z42

return response to query for an adult with historical smallpox vaccination

Test Story

| |
|--|
| Description |
| The IIS performs a search for Stanley S. Clement and finds one high confidence match. The IIS generates an evaluated history and forecast for Mr. Clement and returns this to the EHR-S. The EHR-S displays the evaluated history and forecast to the staff member. |
| Comments |
| No Comments |
| Pre Condition |
| A query is performed by the sending system. The IIS (simulated by the NIST test tool) contains an immunization events for the person. |
| Post Condition |
| The response is made available to the EHR-S for processing. The clinician is able to view the evaluated history and forecast from the IIS (even if temporal). |
| Test Objectives |
| Demonstrate the capability to receive a response message containing the evaluated history and forecast; display evaluated history and forecast. |
| Evaluation Criteria |
| Confirms valid receipt and display of response message using the Juror Document. |
| Notes for Testers |
| Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test. |
| Important note regarding the MSH-10 and MSA-2: The NIST response message is predefined and is based on the query message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the response message. The NIST response test message can be modified such that MSA-2 matches MSH-10 of the query message generated by the system-under test |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |

| | | | |
|----------|----------------------------------|---------------------------------|--|
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-2.2_Response_K11_Z42 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z42 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-2.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-2.1-2015 | |
| QAK-2 | Query Response Status | OK | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|--------------------|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding | CDCPHINVS | |

| | | | |
|-----------|--|---------------|--|
| QPD-2 | System Query Tag | IZ-2.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 648286 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Stanley | |
| QPD-4.2 | Given Name | Clement | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | S | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Bell | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 19500214 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 1642 Bear Run | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Bozeman | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59715 | |
| QPD-8.6 | Country | USA | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication Equipment Type | PH | |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5552020 | |
| QPD-10 | Multiple birth indicator | | |
| QPD-11 | Birth order | | |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|--------------|--|---------------|----------------|
| PID-1 | Set ID - PID | 1 | |
| PID-3[1] | Patient Identifier List | | |
| PID-3[1].1 | ID Number | 648286 | |
| PID-3[1].4 | Assigning Authority | | |
| PID-3[1].4.1 | Namespace ID | NIST-MPI-1 | |
| PID-3[1].4.2 | Universal ID | | |
| PID-3[1].4.3 | Universal ID Type | | |
| PID-3[1].5 | Identifier Type Code | MR | |
| PID-3[2] | Patient Identifier List | | |
| PID-3[2].1 | ID Number | 34500907 | |
| PID-3[2].4 | Assigning Authority | | |
| PID-3[2].4.1 | Namespace ID | NIST-IIS-MPI | |
| PID-3[2].4.2 | Universal ID | | |
| PID-3[2].4.3 | Universal ID Type | | |
| PID-3[2].5 | Identifier Type Code | SR | |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Stanley | |
| PID-5.2 | Given Name | Clement | |
| PID-5.3 | Second and Further Given Names or Initials Thereof | S | |
| PID-5.7 | Name Type Code | L | |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19500214 | |
| PID-8 | Administrative Sex | M | |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 1642 Bear Run | |
| PID-11.2 | Other Designation | | |
| PID-11.3 | City | Bozeman | |
| PID-11.4 | State or Province | MT | |
| PID-11.5 | Zip or Postal Code | 59715 | |
| PID-11.6 | Country | USA | |
| PID-11.7 | Address Type | L | |
| PID-30 | Patient Death Indicator | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 193337027 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 9999 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|------------|--|-------------------------|--|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20151029 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 140 | |
| RXA-5.2 | Text | seasonal flu | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 0.5 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | UCUM | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | |
| RXA-9.2 | Text | new immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | |
| RXA-11.4.2 | Universal ID | | |

| | | | |
|------------|--|--------|--|
| RXA-11.4.3 | Universal ID | | |
| RXA-17 | Type Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | CSL | |
| RXA-17.2 | Text | bioCSL | |
| RXA-17.3 | Name of Coding System | MVX | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|-----------------------------------|------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20151029 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 998 | |
| RXA-5.2 | Text | no vaccine admin | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | |
| RXA-9.2 | Text | | |
| RXA-9.3 | Name of Coding System | | |
| 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | NA | |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------|----------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | |
| RXR-1.2 | Text | IM | |
| RXR-1.3 | Name of Coding System | NCIT | |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | | |
| RXR-2.2 | Text | | |
| RXR-2.3 | Name of Coding System | | |

OBX[*]

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 88 | |
| OBX-5.2 | Text | influenza NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151029 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151029 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 152 | |
| OBX-5.2 | Text | pcv NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20600101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20600101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 88 | |
| OBX-5.2 | Text | influenza NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 10 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20160901 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 11 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20160901 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 12 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 13 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 14 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 15 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 16 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 85 | |
| OBX-5.2 | Text | Hep A | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 17 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 18 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 19 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 20 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 21 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 22 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | 19950101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 23 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | 19950101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 24 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 108 | |
| OBX-5.2 | Text | MCV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 25 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 26 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | 20110101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 27 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | 20110101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 28 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 21 | |
| OBX-5.2 | Text | varicella | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 29 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 30 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 31 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 32 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 115 | |
| OBX-5.2 | Text | TDAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 33 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 34 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | 20020101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 35 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | 20020101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|---------------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-2.2_Response_K11_Z42 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z42 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-2.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-2.1-2015 | |
| QAK-2 | Query Response Status | OK | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|--|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-2.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 648286 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Stanley | |
| QPD-4.2 | Given Name | Clement | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | S | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Bell | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 19500214 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 1642 Bear Run | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Bozeman | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59715 | |
| QPD-8.6 | Country | USA | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication Equipment Type | PH | |

| | | | |
|---------|--------------------------|---------|--|
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5552020 | |
| QPD-10 | Multiple birth indicator | | |
| QPD-11 | Birth order | | |

PID : Patient Identification

| Location | Data Element | Data | Categorization |
|--------------|--|---------------|----------------|
| PID-1 | Set ID - PID | 1 | |
| PID-3[1] | Patient Identifier List | | |
| PID-3[1].1 | ID Number | 648286 | |
| PID-3[1].4 | Assigning Authority | | |
| PID-3[1].4.1 | Namespace ID | NIST-MPI-1 | |
| PID-3[1].4.2 | Universal ID | | |
| PID-3[1].4.3 | Universal ID Type | | |
| PID-3[1].5 | Identifier Type Code | MR | |
| PID-3[2] | Patient Identifier List | | |
| PID-3[2].1 | ID Number | 34500907 | |
| PID-3[2].4 | Assigning Authority | | |
| PID-3[2].4.1 | Namespace ID | NIST-IIS-MPI | |
| PID-3[2].4.2 | Universal ID | | |
| PID-3[2].4.3 | Universal ID Type | | |
| PID-3[2].5 | Identifier Type Code | SR | |
| PID-5 | Patient Name | | |
| PID-5.1 | Family Name | | |
| PID-5.1.1 | Surname | Stanley | |
| PID-5.2 | Given Name | Clement | |
| PID-5.3 | Second and Further Given Names or Initials Thereof | S | |
| PID-5.7 | Name Type Code | L | |
| PID-7 | Date/Time of Birth | | |
| PID-7.1 | Time | 19500214 | |
| PID-8 | Administrative Sex | M | |
| PID-11 | Patient Address | | |
| PID-11.1 | Street Address | | |
| PID-11.1.1 | Street or Mailing Address | 1642 Bear Run | |
| PID-11.2 | Other Designation | | |
| PID-11.3 | City | Bozeman | |
| PID-11.4 | State or Province | MT | |
| PID-11.5 | Zip or Postal Code | 59715 | |
| PID-11.6 | Country | USA | |
| PID-11.7 | Address Type | L | |
| PID-30 | Patient Death Indicator | | |

ORC[*]

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 193337027 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | | |
| ORC-17.2 | Text | | |
| ORC-17.3 | Name of Coding System | | |

ORC : Common Order

| Location | Data Element | Data | Categorization |
|----------|-----------------------|-----------------|----------------|
| ORC-1 | Order Control | RE | |
| 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 | 9999 | |
| ORC-3.2 | Namespace ID | NIST-AA-IZ-2 | |
| ORC-3.3 | Universal ID | | |
| ORC-3.4 | Universal ID Type | | |
| ORC-17 | Entering Organization | | |
| ORC-17.1 | Identifier | NISTEHRFAC | |
| ORC-17.2 | Text | NISTEHRFacility | |
| ORC-17.3 | Name of Coding System | HL70362 | |

RXA[*]

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |

| | | | |
|------------|--|-------------------------|--|
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20151029 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 140 | |
| RXA-5.2 | Text | seasonal flu | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 0.5 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | mL | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | UCUM | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | 00 | |
| RXA-9.2 | Text | new immunization record | |
| RXA-9.3 | Name of Coding System | NIP001 | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | 5111 | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | Sticker | |
| RXA-10.3 | Given Name | Nurse | |
| RXA-10.4 | Second and Further Given Names or Initials Thereof | | |
| RXA-10.9 | Assigning Authority | | |
| RXA-10.9.1 | Namespace ID | NIST-PI-1 | |
| RXA-10.9.2 | Universal ID | | |
| RXA-10.9.3 | Universal ID Type | | |
| RXA-10.10 | Name Type Code | L | |
| RXA-10.13 | Identifier Type Code | PRN | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | NIST-Clinic-1 | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID | | |

| | | | |
|----------|--|--------|--|
| RXA-17 | Type Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | CSL | |
| RXA-17.2 | Text | bioCSL | |
| RXA-17.3 | Name of Coding System | MVX | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | CP | |

RXA : Pharmacy/Treatment Administration

| Location | Data Element | Data | Categorization |
|------------|--------------------------------------|------------------|----------------|
| RXA-1 | Give Sub-ID Counter | 0 | |
| RXA-2 | Administration Sub-ID Counter | 1 | |
| RXA-3 | Date/Time Start of Administration | | |
| RXA-3.1 | Time | 20151029 | |
| RXA-5 | Administered Code | | |
| RXA-5.1 | Identifier | 998 | |
| RXA-5.2 | Text | no vaccine admin | |
| RXA-5.3 | Name of Coding System | CVX | |
| RXA-6 | Administered Amount | 999 | |
| RXA-7 | Administered Units | | |
| RXA-7.1 | Identifier | | |
| RXA-7.2 | Text | | |
| RXA-7.3 | Name of Coding System | | |
| RXA-9 | Administration Notes | | |
| RXA-9.1 | Identifier | | |
| RXA-9.2 | Text | | |
| RXA-9.3 | Name of Coding System | | |
| RXA-10 | Administering Provider | | |
| RXA-10.1 | ID Number | | |
| RXA-10.2 | Family Name | | |
| RXA-10.2.1 | Surname | | |
| RXA-10.3 | Given Name | | |
| | Second and Further | | |

| | | | |
|------------|------------------------------------|----|--|
| RXA-10.4 | 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-10.10 | Name Type Code | | |
| RXA-10.13 | Identifier Type Code | | |
| RXA-11 | Administered-at Location | | |
| RXA-11.4 | Facility | | |
| RXA-11.4.1 | Namespace ID | | |
| RXA-11.4.2 | Universal ID | | |
| RXA-11.4.3 | Universal ID Type | | |
| RXA-17 | Substance Manufacturer Name | | |
| RXA-17.1 | Identifier | | |
| RXA-17.2 | Text | | |
| RXA-17.3 | Name of Coding System | | |
| RXA-18 | Substance/Treatment Refusal Reason | | |
| RXA-18.1 | Identifier | | |
| RXA-18.2 | Text | | |
| RXA-18.3 | Name of Coding System | | |
| RXA-20 | Completion Status | NA | |

RXR : Pharmacy/Treatment Route

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--------|----------------|
| RXR-1 | Route | | |
| RXR-1.1 | Identifier | C28161 | |
| RXR-1.2 | Text | IM | |
| RXR-1.3 | Name of Coding System | NCIT | |
| RXR-2 | Administration Site | | |
| RXR-2.1 | Identifier | | |
| RXR-2.2 | Text | | |
| RXR-2.3 | Name of Coding System | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 1 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 88 | |
| OBX-5.2 | Text | influenza NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 2 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151029 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 3 | |
| OBX-2 | Value Type | ID | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59781-5 | |
| OBX-3.2 | Text | dose validity | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | Y | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | 20151029 | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 4 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 152 | |
| OBX-5.2 | Text | pcv NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 5 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 6 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20600101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 7 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 1 | |
| OBX-5 | Observation Value | 20600101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|---------------|----------------|
| OBX-1 | Set ID - OBX | 8 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 88 | |
| OBX-5.2 | Text | influenza NOS | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 9 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 10 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20160901 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 11 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 2 | |
| OBX-5 | Observation Value | 20160901 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 12 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 03 | |
| OBX-5.2 | Text | MMR | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 13 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 14 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 15 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 3 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 16 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 85 | |
| OBX-5.2 | Text | Hep A | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 17 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 18 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 19 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 4 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 20 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 45 | |
| OBX-5.2 | Text | Hep B | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 21 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 22 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | 19950101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 23 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 5 | |
| OBX-5 | Observation Value | 19950101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 24 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 108 | |
| OBX-5.2 | Text | MCV | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 25 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 26 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | 20110101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 27 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 6 | |
| OBX-5 | Observation Value | 20110101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 28 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 21 | |
| OBX-5.2 | Text | varicella | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 29 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 30 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 31 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 7 | |
| OBX-5 | Observation Value | 19960101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|--------------|----------------|
| OBX-1 | Set ID - OBX | 32 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30956-7 | |
| OBX-3.2 | Text | vaccine type | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | 115 | |
| OBX-5.2 | Text | TDAP | |
| OBX-5.3 | Name of Coding System | CVX | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------------|----------------|
| OBX-1 | Set ID - OBX | 33 | |
| OBX-2 | Value Type | CE | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 59779-9 | |
| OBX-3.2 | Text | Immunization Schedule used | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | | |
| OBX-5.1 | Identifier | VXC16 | |
| OBX-5.2 | Text | ACIP | |
| OBX-5.3 | Name of Coding System | CDCPHINVS | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|----------------------|----------------|
| OBX-1 | Set ID - OBX | 34 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30980-7 | |
| OBX-3.2 | Text | Date vaccination due | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | 20020101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

OBX : Observation/Result

| Location | Data Element | Data | Categorization |
|----------|------------------------------|-----------------------|----------------|
| OBX-1 | Set ID - OBX | 35 | |
| OBX-2 | Value Type | DT | |
| OBX-3 | Observation Identifier | | |
| OBX-3.1 | Identifier | 30981-5 | |
| OBX-3.2 | Text | Earliest Date to give | |
| OBX-3.3 | Name of Coding System | LN | |
| OBX-4 | Observation Sub-ID | 8 | |
| OBX-5 | Observation Value | 20020101 | |
| OBX-6 | Units | | |
| OBX-6.1 | Identifier | | |
| OBX-6.2 | Text | | |
| OBX-6.3 | Name of Coding System | | |
| OBX-11 | Observation Result Status | F | |
| OBX-14 | Date/Time of the Observation | | |
| OBX-14.1 | Time | | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Evaluated Immunization History and Immunization Forecast | | |
|--|----------------------------------|----------------------------------|
| Test Case ID | IIZ-QR-2_Query_Adult | |
| Juror ID | | |
| Juror Name | | |
| HIT System Tested | | |
| Inspection Date/Time | | |
| Inspection Settlement (Pass/Fail) | Pass <input type="checkbox"/> | Fail <input type="checkbox"/> |
| Reason Failed | | |
| Juror Comments | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the EHR technology's ability to display required core data elements from the information received in the Evaluated Immunization History and Immunization Forecast Z42 response message. Additional data from the message or from the EHR are permitted to be displayed by the EHR. Grayed-out fields in the Juror Document indicate where no data for the data element indicated were included in the Z42 message for the given Test Case.

The format of this Juror Document is for ease-of-use by the Tester and does not indicate how the EHR display must be designed.

The Evaluated Immunization History and Immunization Forecast data shown in this Juror Document are derived from the Z42 message provided with the given Test Case; equivalent data are permitted to be displayed by the EHR. The column headings are meant to convey the kind of data to be displayed; equivalent labels/column headings are permitted to be displayed by the EHR.

| Patient Information | | | | |
|---------------------|-------------------|------------|--------|----------------|
| Patient Identifier | Patient Name | DOB | Gender | Tester Comment |
| 648286 | Clement S Stanley | 02/14/1950 | Male | |

When displayed in the EHR with the Evaluated Immunization History and Immunization Forecast, these patient demographics data may be derived from either the received immunization message or the EHR patient record. When displaying demographics from the patient record, the EHR must be able to demonstrate a linkage between the demographics in the message (primarily the patient ID in PID-3.1) and the patient record used for display to ensure that the message was associated with the appropriate patient.

| Evaluated Immunization History and Immunization Forecast | |
|--|----------------|
| Immunization Schedule Used | Tester Comment |
| ACIP | |

| Evaluated Immunization History | | | | | | |
|--------------------------------|----------------------|-------------------|------------|-----------------|--------------------|----------------|
| Vaccine Group | Vaccine Administered | Date Administered | Valid Dose | Validity Reason | Completion Status* | Tester Comment |
| influenza NOS | seasonal flu | 10/29/2015 | YES | | Complete | |

* "Completion Status" refers to the status of the dose of vaccine administered on the indicated date and may be interpreted as "Dose Status". A status of "Complete" means that the vaccine dose was "completely administered" as opposed to "partially administered".

| Immunization Forecast | | | | |
|-----------------------|------------|-----------------------|---------------------|----------------|
| Vaccine Group | Due Date | Earliest Date To Give | Latest Date to Give | Tester Comment |
| pcv NOS | 01/01/2060 | 01/01/2060 | | |
| influenza NOS | 09/01/2016 | 09/01/2016 | | |
| MMR | 01/01/1996 | 01/01/1996 | | |
| Hep A | 01/01/1996 | 01/01/1996 | | |
| Hep B | 01/01/1995 | 01/01/1995 | | |
| MCV | 01/01/2011 | 01/01/2011 | | |
| varicella | 01/01/1996 | 01/01/1996 | | |
| TDAP | 01/01/2002 | 01/01/2002 | | |

2.3. IZ-QR-3_Query_No_Patients

Tests ability to send a query and receive a response where no patients are found.

Test Story

Description

A female toddler, Donna Victoria Bee, is brought to the local clinic to determine what immunizations have been given and what immunizations are needed. A clinic staff member collects basic patient demographic information including name, date of birth, sex, and birth order (Donna was born 3rd in a triplet). A clinic provider uses this information to locate the patient's medical record. The staff member then uses the medical record and system capabilities to query the IIS to request an evaluated history and forecast for the patient.

The IIS performs a search for Donna Victoria Bee and does not find a high-confidence match. The IIS returns a response message indicating no person found to the querying system. It is expected that the requesting system (e.g., EHR-S) process the response message and display some indication to the end user that no matches were found.

Comments

No Comments

Pre Condition

Person exists in the system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have a record in the IIS, even though complete demographics are used in the query.

Post Condition

The clinician is provided some indication that no matches were found.

Test Objectives

Tests for a maximally valued query message, including use of OIDs, mother's maiden name, fully valued address, birth indicator and birth order. Test the capability of the EHR-S to process a response message that returns no persons found and to provide an indication to the end user.

Evaluation Criteria

Query Message: Message Validation Report

Response Message: Juror Document. The EHR-S receives the response and alerts the clinician that no matches were found.

Notes for Testers

The NIST tool is simulating a response from the IIS.

Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test.

2.3.1. IZ-QR-3.1_Query_Q11_Z44

This query should return a response where no matches are found.

Test Story

Description

A female toddler, Donna Victoria Bee, is brought to the local clinic to determine what immunizations have been given and what immunizations are needed. A clinic staff member collects basic patient demographic information including name, date of birth, sex, and birth order (Donna was born 3rd in a triplet). A clinic provider uses this information to locate the patient's medical record. The staff member then uses the medical record and system capabilities to query the IIS to request an evaluated history and forecast for the patient.

Comments

Most of the test data is categorized as Test Case Fixed. It is important that the data is entered into the querying system as specified to enable linking the response message to the patient record. The sending (querying) system will need to accept a response indicating that no matches were found.

Pre Condition

Person exists in the system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person does not have a record in the IIS, even though complete demographics are used in the query.

Post Condition

A response message is returned in which no person record is found.

Test Objectives

Tests for a maximally valued query message, including use of OIDs, mother's maiden name, fully valued address, birth indicator and birth order.

Evaluation Criteria

Message Validation Report

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------|---------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |

| | | | |
|----------|---------------------------------|------------------------------|------------------------------|
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.72 | Indifferent |
| MSH-3.3 | Universal ID Type | ISO | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72 | Indifferent |
| MSH-4.3 | Universal ID Type | ISO | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72 | Indifferent |
| MSH-5.3 | Universal ID Type | ISO | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72 | Indifferent |
| MSH-6.3 | Universal ID Type | ISO | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150531145156-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-3.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible | | |

| | | | |
|------------|------------------------------------|-----------------------------|------------------------|
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.7215400 | Inferred |
| MSH-22.6.3 | Universal ID Type | ISO | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.7215400 | Inferred |
| MSH-23.6.3 | Universal ID Type | ISO | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-3.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 177993 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST MPI | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | 2.16.840.1.113883.3.7215400 | Inferred |
| QPD-3.4.3 | Universal ID Type | ISO | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Bee | Value-Test Case Fixed |

| | | | |
|-----------|--|---------------------|-----------------------|
| QPD-4.2 | Given Name | Donna | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | Victoria | Value-Test Case Fixed |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Goluchio | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20120507 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | F | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 737 Everygreen Road | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | Suite 511 | Indifferent |
| QPD-8.3 | City | Livingston | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59047 | Value-Test Case Fixed |
| QPD-8.6 | Country | USA | Value-Test Case Fixed |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5553758 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | Y | Value-Test Case Fixed |
| QPD-11 | Birth order | 3 | Value-Test Case Fixed |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|----------------------------|------------------------------|------------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.721540 | Indifferent |
| MSH-3.3 | Universal ID Type | ISO | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.721540 | Indifferent |
| MSH-4.3 | Universal ID Type | ISO | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.721540 | Indifferent |
| MSH-5.3 | Universal ID Type | ISO | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.721540 | Indifferent |
| MSH-6.3 | Universal ID Type | ISO | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150531145156-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-3.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment | AL | Value-Profile Fixed |

| | | | |
|------------|------------------------------------|------------------------------|------------------------|
| MSH-21 | Type Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.72154009 | Indifferent |
| MSH-22.6.3 | Universal ID Type | ISO | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.72154009 | Indifferent |
| MSH-23.6.3 | Universal ID Type | ISO | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-3.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 177993 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |

| | | | |
|-----------|--|------------------------|-----------------------|
| QPD-3.4.1 | Namespace ID | NIST MPI | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | 2.16.840.1.113883.3.72 | Indifferent |
| QPD-3.4.3 | Universal ID Type | ISO | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Bee | Value-Test Case Fixed |
| QPD-4.2 | Given Name | Donna | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | Victoria | Value-Test Case Fixed |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Goluchio | Value-Test Case Fixed |
| QPD-5.7 | Name Type Code | M | Value-Profile Fixed |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20120507 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | F | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 737 Everygreen Road | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | Suite 511 | Indifferent |
| QPD-8.3 | City | Livingston | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59047 | Value-Test Case Fixed |
| QPD-8.6 | Country | USA | Value-Test Case Fixed |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5553758 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | Y | Value-Test Case Fixed |
| QPD-11 | Birth order | 3 | Value-Test Case Fixed |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

Test Data Specification

Patient Information

| Element | Data |
|----------------------|--|
| Patient Name | Donna Victoria Bee |
| Mother's Maiden Name | Goluchio |
| ID Number | 177993 |
| Date/Time of Birth | 05/07/2012 |
| Sex | Female |
| Patient Address | 737 Everygreen Road Livingston MT 59047 USA |
| Patient Phone | (406)555-3758 |
| Birth Indicator | Yes |
| Birth Order | 3 |

Patient Information

| Element | Data |
|----------------------|--|
| Patient Name | Donna Victoria Bee |
| Mother's Maiden Name | Goluchio |
| ID Number | 177993 |
| Date/Time of Birth | 05/07/2012 |
| Sex | Female |
| Patient Address | 737 Everygreen Road Livingston MT 59047 USA |
| Patient Phone | (406)555-3758 |
| Birth Indicator | Yes |
| Birth Order | 3 |

2.3.2. IZ-QR-3.2_Response_NF_K11_Z33

Response with no matches found

Test Story

| |
|--|
| Description |
| The IIS performs a search for Donna Victoria Bee and does not find a high-confidence match. The IIS returns a response message indicating no person found to the querying system. |
| Comments |
| No Comments |
| Pre Condition |
| The patient Donna Victoria Bee exists in the querying system (e.g., EHR-S) and a query was performed. The IIS (simulated by the NIST test tool) does not find a match for the person. |
| Post Condition |
| The response message is processed and the clinician is alerted to fact of no matches. |
| Test Objectives |
| Test the capability of the EHR-S to process a response message that returns no persons found and to provide an indication to the end user. |
| Evaluation Criteria |
| Juror Document. Clinician is notified of no match. |
| Notes for Testers |
| Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test. |
| Important note regarding the MSH-10 and MSA-2: The NIST response message is predefined and is based on the query message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the response message. The NIST response test message can be modified such that MSA-2 matches MSH-10 of the query message generated by the system-under test |

Message Contents

| MSH : Message Header | | | |
|----------------------|---------------------|------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |

| | | | |
|--------------------|----------------------------------|--|--|
| MSH-3.1 MSH-3.2 | Namespace ID Universal ID | NISTHSAPP 2.16.840.1.113883.3.72.5.40.3 | |
| MSH-3.3 | Universal ID Type | ISO | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.4 | |
| MSH-4.3 | Universal ID Type | ISO | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.1 | |
| MSH-5.3 | Universal ID Type | ISO | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.2 | |
| MSH-6.3 | Universal ID Type | ISO | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20151031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-3.2_Response_NF_K11_Z33 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z33 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |

| | | |
|------------|------------------------------------|-------------------------------|
| MSH-22.6.2 | Universal ID Type | 2.16.840.1.113883.3.72.5.40.9 |
| MSH-22.7 | Identifier Type Code | XX |
| MSH-22.10 | Organization Identifier | 100-3322 |
| MSH-23 | Receiving Responsible Organization | |
| MSH-23.1 | Organization Name | NISTEHRFAC |
| MSH-23.6 | Assigning Authority | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 |
| MSH-23.6.3 | Universal ID Type | ISO |
| MSH-23.7 | Identifier Type Code | XX |
| MSH-23.10 | Organization Identifier | 100-6482 |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-3.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-3.1-2015 | |
| QAK-2 | Query Response Status | NF | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |

| | | | |
|-----------|--|-------------------------------|--|
| QPD-2 | Query Tag | IZ-3.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 177993 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST MPI | |
| QPD-3.4.2 | Universal ID | 2.16.840.1.113883.3.72.5.30.2 | |
| QPD-3.4.3 | Universal ID Type | ISO | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Bee | |
| QPD-4.2 | Given Name | Donna | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | Victoria | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Goluchio | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20120507 | |
| QPD-7 | Patient Sex | F | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 737 Everygreen Road | |
| QPD-8.2 | Other Designation | Suite 511 | |
| QPD-8.3 | City | Livingston | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59047 | |
| QPD-8.6 | Country | USA | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication Equipment Type | PH | |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5553758 | |
| QPD-10 | Multiple birth indicator | Y | |
| QPD-11 | Birth order | 3 | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|------------------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.3 | |
| MSH-3.3 | Universal ID Type | ISO | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.4 | |
| MSH-4.3 | Universal ID Type | ISO | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.1 | |
| MSH-5.3 | Universal ID Type | ISO | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.2 | |
| MSH-6.3 | Universal ID Type | ISO | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20151031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-3.2_Response_NF_K11_Z33 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z33 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |

| | | | |
|------------|------------------------------------|-------------------------------|--|
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-22.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-22.6.3 | Universal ID Type | ISO | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-IZ-1 | |
| MSH-23.6.2 | Universal ID | 2.16.840.1.113883.3.72.5.40.9 | |
| MSH-23.6.3 | Universal ID Type | ISO | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-3.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-3.1-2015 | |
| QAK-2 | Query Response Status | NF | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|--------------|------|----------------|
| | | | |

| | | | |
|-----------|--|--|--|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-3.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 177993 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST MPI | |
| QPD-3.4.2 | Universal ID | 2.16.840.1.113883.3.72.5.30.2 | |
| QPD-3.4.3 | Universal ID Type | ISO | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Bee | |
| QPD-4.2 | Given Name | Donna | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | Victoria | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | Goluchio | |
| QPD-5.7 | Name Type Code | M | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20120507 | |
| QPD-7 | Patient Sex | F | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 737 Everygreen Road | |
| QPD-8.2 | Other Designation | Suite 511 | |
| QPD-8.3 | City | Livingston | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59047 | |
| QPD-8.6 | Country | USA | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication Equipment Type | PH | |
| QPD-9.4 | Email Address | | |

| | | | |
|---------|--------------------------|---------|--|
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5553758 | |
| QPD-10 | Multiple birth indicator | Y | |
| QPD-11 | Birth order | 3 | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Evaluated Immunization History and Immunization Forecast | | |
|--|----------------------------------|----------------------------------|
| Test Case ID | IZ-QR-3_Query_No_Patients | |
| Juror ID | | |
| Juror Name | | |
| HIT System Tested | | |
| Inspection Date/Time | | |
| Inspection Settlement (Pass/Fail) | Pass <input type="checkbox"/> | Fail <input type="checkbox"/> |
| Reason Failed | | |
| Juror Comments | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the EHR technology's ability to display information notifying the HIT user that a Return Acknowledgement with No Person Records Z33 message was received (in response to an Evaluated Immunization History and Immunization Forecast Z44 query message). Additional data from the message or from the EHR are permitted to be displayed by the EHR.

The format of this Juror Document is for ease-of-use by the Tester and does not indicate how the EHR display must be designed.

The data shown in this Juror Document are derived from the test data provided with the given Test Case; equivalent data are permitted to be displayed by the EHR. The column headings are meant to convey the kind of data to be displayed; equivalent labels/column headings are permitted to be displayed by the EHR.

| Patient Information | | | | |
|--|--------------------|------------|--------|----------------|
| Patient Identifier | Patient Name | DOB | Gender | Tester Comment |
| 177993 | Donna Victoria Bee | 05/07/2012 | Female | |
| When displayed in the EHR with the notification indicating that a Return Acknowledgement with No Person Records Z33 message was received, these patient demographics data are derived from the EHR patient record. | | | | |

| Evaluated Immunization History and Immunization Forecast |
|--|
| The EHR shall display a notification indicating that the query for an Evaluated Immunization History and Immunization Forecast is complete but no matching records were found for the person in the query. |

2.4. IZ-QR-4_Query_Too_Many

Query finds too many matches

Test Story

Description

A child, James Smith, is brought to the local clinic to determine what immunizations have been given and what immunizations are needed. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider uses this information to locate the patient's medical record. The staff member then uses the medical record and system capabilities to query the IIS to request an evaluated history and forecast for the patient.

The IIS performs a search for James Smith and finds too many matches. The IIS returns a response message indicating no person found (too many matches) to the querying system. It is expected that the requesting system (e.g., EHR-S) process the response message and display some indication to the end user that the person was not found (too many matches).

Comments

Pre Condition

Person exists in the system with the complete demographics as provided in the Test Data Specification.

Person has Medical Record Number (MR).

Person may have a record in the IIS, however the IIS is unable narrow the search results to a single match (multiple matches exist).

Post Condition

The clinician is provided some indication that too many matches were found.

Test Objectives

Tests for a typically valued query message. Test the capability of the EHR-S to process a response message that returns no persons found (too many matches) and to provide an indication to the end user.

Evaluation Criteria

Query Message: Message Validation Report

Response Message: Juror Document. The EHR-S receives the response and alerts the clinician that too many matches were found.

Notes for Testers

The NIST tool is simulating a response from the IIS.

Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test.



2.4.1. IZ-QR-4.1_Query_Q11_Z44

Query will find too many matches

Test Story

Description

A child, James Smith, is brought to the local clinic to determine what immunizations have been given and what immunizations are needed. A clinic staff member collects basic patient demographic information including name, date of birth and sex. A clinic provider uses this information to locate the patient's medical record. The staff member then uses the medical record and system capabilities to query the IIS to request an evaluated history and forecast for the patient.

Comments

Most of the test data is categorized as Test Case Fixed. It is important that the data is entered into the querying system as specified to enable linking the response message to the patient record.

The sending (querying) system will need to accept a response indicating that too many matches were found.

Pre Condition

More than one person in the IIS matching the parameters in the query exists.

Post Condition

Response indicates that there are more than one match (too many) and the clinician is informed.

Test Objectives

Tests for a typically valued query message.

Evaluation Criteria

Message Validation Report

Notes for Testers

No Note

Message Contents

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------|------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| | | | |

| | | | |
|----------|----------------------------------|------------------------------|------------------------------|
| MSH-4 | Sending Facility Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.1 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150531145156-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-4.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |
| MSH-21.2 | Namespace ID | CDCPHINVS | Value-Profile Fixed |
| MSH-21.3 | Universal ID | | Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |

| | | | |
|------------|------------------------------------|------------|------------------------|
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|--|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-4.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 412299 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |
| QPD-3.5 | Identifier Type Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Smith | Value-Test Case Fixed |
| QPD-4.2 | Given Name | James | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | | Indifferent |

| | | | |
|-----------|----------------------------------|--------------------|-----------------------|
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | | Indifferent |
| QPD-5.7 | Name Type Code | | Indifferent |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20110905 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 22 East Branch Way | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Livingston | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59047 | Value-Test Case Fixed |
| QPD-8.6 | Country | | Indifferent |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5556285 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|-----------------|---------------------------------|------------------------------|------------------------------|
| MSH-1 | Field Separator | | Value-Profile Fixed |
| MSH-2 | Encoding Characters | ^~\& | Value-Profile Fixed |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTEHRAPP | Presence-Configuration |
| MSH-3.2 | Universal ID | | Indifferent |
| MSH-3.3 | Universal ID Type | | Indifferent |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTEHRFAC | Presence-Configuration |
| MSH-4.2 | Universal ID | | Indifferent |
| MSH-4.3 | Universal ID Type | | Indifferent |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTIISAPP | Presence-Configuration |
| MSH-5.2 | Universal ID | | Indifferent |
| MSH-5.3 | Universal ID Type | | Indifferent |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTIISFAC | Presence-Configuration |
| MSH-6.2 | Universal ID | | Indifferent |
| MSH-6.3 | Universal ID Type | | Indifferent |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20150531145156-0500 | Presence-System Generated |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | QBP | Value-Profile Fixed |
| MSH-9.2 | Trigger Event | Q11 | Value-Profile Fixed |
| MSH-9.3 | Message Structure | QBP_Q11 | Value-Profile Fixed |
| MSH-10 | Message Control ID | NIST-IZ-QR-4.1_Query_Q11_Z44 | Presence-System Generated |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | Presence-Content Indifferent |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | Value-Profile Fixed |
| MSH-15 | Accept Acknowledgment Type | ER | Value-Profile Fixed |
| MSH-16 | Application Acknowledgment Type | AL | Value-Profile Fixed |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z44 | Value-Profile Fixed |

| | | | |
|----------------------|------------------------------------|------------|------------------------------------|
| MSH-21.2 MSH-21.3 | Namespace ID Universal ID | CDCPHINVS | Value-Profile Fixed Indifferent |
| MSH-21.4 | Universal ID Type | | Indifferent |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTEHRFAC | Presence-Configuration |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-22.6.2 | Universal ID | | Indifferent |
| MSH-22.6.3 | Universal ID Type | | Indifferent |
| MSH-22.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-22.10 | Organization Identifier | 100-6482 | Presence-Configuration |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTIISFAC | Presence-Configuration |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | Presence-Configuration |
| MSH-23.6.2 | Universal ID | | Indifferent |
| MSH-23.6.3 | Universal ID Type | | Indifferent |
| MSH-23.7 | Identifier Type Code | XX | Value-Test Case Fixed |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|-----------------------|--|---------------------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | Value-Profile Fixed |
| QPD-1.2 | Text | Request Evaluated History and Forecast | Value-Profile Fixed |
| QPD-1.3 | Name of Coding System | CDCPHINVS | Value-Profile Fixed |
| QPD-2 | Query Tag | IZ-4.1-2015 | Presence-System Generated |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 412299 | Value-Test Case Fixed |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | Value-Test Case Fixed |
| QPD-3.4.2 | Universal ID | | Indifferent |
| QPD-3.4.3 | Universal ID Type | | Indifferent |
| | Identifier Type | | |

| | | | |
|-----------|--|--------------------|-----------------------|
| QPD-3.5 | Code | MR | Value-Test Case Fixed |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Smith | Value-Test Case Fixed |
| QPD-4.2 | Given Name | James | Value-Test Case Fixed |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | | Indifferent |
| QPD-4.7 | Name Type Code | L | Value-Test Case Fixed |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | | Indifferent |
| QPD-5.7 | Name Type Code | | Indifferent |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20110905 | Value-Test Case Fixed |
| QPD-7 | Patient Sex | M | Value-Test Case Fixed |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 22 East Branch Way | Value-Test Case Fixed |
| QPD-8.2 | Other Designation | | Indifferent |
| QPD-8.3 | City | Livingston | Value-Test Case Fixed |
| QPD-8.4 | State or Province | MT | Value-Test Case Fixed |
| QPD-8.5 | Zip or Postal Code | 59047 | Value-Test Case Fixed |
| QPD-8.6 | Country | | Indifferent |
| QPD-8.7 | Address Type | L | Value-Test Case Fixed |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | Value-Test Case Fixed |
| QPD-9.3 | Telecommunication Equipment Type | PH | Value-Test Case Fixed |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | Value-Test Case Fixed |
| QPD-9.7 | Local Number | 5556285 | Value-Test Case Fixed |
| QPD-10 | Multiple birth indicator | | Indifferent |
| QPD-11 | Birth order | | Indifferent |

RCP : Response Control Parameter

| Location | Data Element | Data | Categorization |
|-----------|--------------------------|---------|---------------------------|
| RCP-1 | Query Priority | I | Value-Test Case Fixed |
| RCP-2 | Quantity Limited Request | | |
| RCP-2.1 | Quantity | 1 | Value-Profile Fixed |
| RCP-2.2 | Units | | |
| RCP-2.2.1 | Identifier | RD | Value-Profile Fixed |
| RCP-2.2.2 | Text | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System | HL70126 | Value-Profile Fixed |

Test Data Specification

Patient Information

| Element | Data |
|----------------------|--|
| Patient Name | James Smith |
| Mother's Maiden Name | |
| ID Number | 412299 |
| Date/Time of Birth | 09/05/2011 |
| Sex | Male |
| Patient Address | 22 East Branch Way Livingston MT 59047 |
| Patient Phone | (406)555-6285 |
| Birth Indicator | No |
| Birth Order | |

Patient Information

| Element | Data |
|----------------------|--|
| Patient Name | James Smith |
| Mother's Maiden Name | |
| ID Number | 412299 |
| Date/Time of Birth | 09/05/2011 |
| Sex | Male |
| Patient Address | 22 East Branch Way Livingston MT 59047 |
| Patient Phone | (406)555-6285 |
| Birth Indicator | No |
| Birth Order | |

2.4.2. IZ-QR-4.2_Response_TM_K11_Z33

Response message indicating that too matches were found.

Test Story

| |
|---|
| Description The IIS performs a search for James Smith and finds too many matches based on the sending system's query (e.g., EHR-S). The IIS returns a response message indicating no person found (too many matches) to the querying system. It is expected that the requesting system (e.g., EHR-S) process the response message and display some indication to the end user that the person was not found (too many matches). |
| Comments No Comments |
| Pre Condition A query is made to the IIS. Person may have a record in the IIS, however the IIS is unable narrow the search results to a single match (multiple matches exist). |
| Post Condition The clinician is provided some indication that too many matches were found. |
| Test Objectives Test the capability of the EHR-S to process a response message that returns no persons found (too many matches) and to provide an indication to the end user. |
| Evaluation Criteria Juror Document. Clinician is notified that too many matches were found. |
| Notes for Testers Important note regarding the Query Tag (QPD-2): The NIST response message is predefined and is based on the query message. Most systems will automatically create the query tag (Identifier) and will require it for importing, linking, and processing the response message. The NIST test message can be modified such that the query tag matches that query tag generated by the system-under test. Important note regarding the MSH-10 and MSA-2: The NIST response message is predefined and is based on the query message. Most systems will automatically create the message control Identifier and may require it for importing, linking, and processing the response message. The NIST response test message can be modified such that MSA-2 matches MSH-10 of the query message generated by the system-under test |

Message Contents

| MSH : Message Header | | | |
|----------------------|-----------------|------|----------------|
| Location | Data Element | Data | Categorization |
| MSH-1 | Field Separator | | |

| | | | |
|----------|----------------------------------|------------------------------------|--|
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-4.2_Response_TM_K11_Z33 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z33 | |
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-22.6 | Assigning Authority Namespace ID | NIST-AA-1 | |
| MSH-22.6.1 | | | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-4.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-4.1-2015 | |
| QAK-2 | Query Response Status | TM | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD : Query Parameter Definition

| Location | Data Element | Data | Categorization |
|----------|--------------------|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |

| | | | |
|-----------|--|--------------------|--|
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-4.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 412299 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Smith | |
| QPD-4.2 | Given Name | James | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | | |
| QPD-5.7 | Name Type Code | | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20110905 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 22 East Branch Way | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Livingston | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59047 | |
| QPD-8.6 | Country | | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication Equipment Type | PH | |
| QPD-9.4 | Email Address | | |
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5556285 | |
| QPD-10 | Multiple birth indicator | | |

MSH : Message Header

| Location | Data Element | Data | Categorization |
|----------|---------------------------------|------------------------------------|----------------|
| MSH-1 | Field Separator | | |
| MSH-2 | Encoding Characters | ^~\& | |
| MSH-3 | Sending Application | | |
| MSH-3.1 | Namespace ID | NISTIISAPP | |
| MSH-3.2 | Universal ID | | |
| MSH-3.3 | Universal ID Type | | |
| MSH-4 | Sending Facility | | |
| MSH-4.1 | Namespace ID | NISTIISFAC | |
| MSH-4.2 | Universal ID | | |
| MSH-4.3 | Universal ID Type | | |
| MSH-5 | Receiving Application | | |
| MSH-5.1 | Namespace ID | NISTEHRAPP | |
| MSH-5.2 | Universal ID | | |
| MSH-5.3 | Universal ID Type | | |
| MSH-6 | Receiving Facility | | |
| MSH-6.1 | Namespace ID | NISTEHRFAC | |
| MSH-6.2 | Universal ID | | |
| MSH-6.3 | Universal ID Type | | |
| MSH-7 | Date/Time Of Message | | |
| MSH-7.1 | Time | 20141031145233-0500 | |
| MSH-9 | Message Type | | |
| MSH-9.1 | Message Code | RSP | |
| MSH-9.2 | Trigger Event | K11 | |
| MSH-9.3 | Message Structure | RSP_K11 | |
| MSH-10 | Message Control ID | NIST-IZ-QR-4.2_Response_TM_K11_Z33 | |
| MSH-11 | Processing ID | | |
| MSH-11.1 | Processing ID | P | |
| MSH-12 | Version ID | | |
| MSH-12.1 | Version ID | 2.5.1 | |
| MSH-15 | Accept Acknowledgment Type | NE | |
| MSH-16 | Application Acknowledgment Type | NE | |
| MSH-21 | Message Profile Identifier | | |
| MSH-21.1 | Entity Identifier | Z33 | |

| | | | |
|------------|------------------------------------|------------|--|
| MSH-21.2 | Namespace ID | CDCPHINVS | |
| MSH-21.3 | Universal ID | | |
| MSH-21.4 | Universal ID Type | | |
| MSH-22 | Sending Responsible Organization | | |
| MSH-22.1 | Organization Name | NISTIISFAC | |
| MSH-22.6 | Assigning Authority | | |
| MSH-22.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-22.6.2 | Universal ID | | |
| MSH-22.6.3 | Universal ID Type | | |
| MSH-22.7 | Identifier Type Code | XX | |
| MSH-22.10 | Organization Identifier | 100-3322 | |
| MSH-23 | Receiving Responsible Organization | | |
| MSH-23.1 | Organization Name | NISTEHRFAC | |
| MSH-23.6 | Assigning Authority | | |
| MSH-23.6.1 | Namespace ID | NIST-AA-1 | |
| MSH-23.6.2 | Universal ID | | |
| MSH-23.6.3 | Universal ID Type | | |
| MSH-23.7 | Identifier Type Code | XX | |
| MSH-23.10 | Organization Identifier | 100-6482 | |

MSA : Message Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1 | Acknowledgment Code | AA | |
| MSA-2 | Message Control ID | NIST-IZ-QR-4.1_Query_Q11_Z44 | |

QAK : Query Acknowledgment

| Location | Data Element | Data | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1 | Query Tag | IZ-4.1-2015 | |
| QAK-2 | Query Response Status | TM | |
| QAK-3 | Message Query Name | | |
| QAK-3.1 | Identifier | Z44 | |
| QAK-3.2 | Text | Request Evaluated History and Forecast | |
| QAK-3.3 | Name of Coding System | CDCPHINVS | |

QPD - Query Parameter Definition

| Location | Data Element | Data | Categorization |
|-----------|--|--|----------------|
| QPD-1 | Message Query Name | | |
| QPD-1.1 | Identifier | Z44 | |
| QPD-1.2 | Text | Request Evaluated History and Forecast | |
| QPD-1.3 | Name of Coding System | CDCPHINVS | |
| QPD-2 | Query Tag | IZ-4.1-2015 | |
| QPD-3 | PatientList | | |
| QPD-3.1 | ID Number | 412299 | |
| QPD-3.4 | Assigning Authority | | |
| QPD-3.4.1 | Namespace ID | NIST-MPI-1 | |
| QPD-3.4.2 | Universal ID | | |
| QPD-3.4.3 | Universal ID Type | | |
| QPD-3.5 | Identifier Type Code | MR | |
| QPD-4 | PatientName | | |
| QPD-4.1 | Family Name | | |
| QPD-4.1.1 | Surname | Smith | |
| QPD-4.2 | Given Name | James | |
| QPD-4.3 | Second and Further Given Names or Initials Thereof | | |
| QPD-4.7 | Name Type Code | L | |
| QPD-5 | PatientMotherMaidenName | | |
| QPD-5.1 | Family Name | | |
| QPD-5.1.1 | Surname | | |
| QPD-5.7 | Name Type Code | | |
| QPD-6 | PatientDateOfBirth | | |
| QPD-6.1 | Time | 20110905 | |
| QPD-7 | Patient Sex | M | |
| QPD-8 | Patient Address | | |
| QPD-8.1 | Street Address | | |
| QPD-8.1.1 | Street or Mailing Address | 22 East Branch Way | |
| QPD-8.2 | Other Designation | | |
| QPD-8.3 | City | Livingston | |
| QPD-8.4 | State or Province | MT | |
| QPD-8.5 | Zip or Postal Code | 59047 | |
| QPD-8.6 | Country | | |
| QPD-8.7 | Address Type | L | |
| QPD-9 | Phone | | |
| QPD-9.2 | Telecommunication Use Code | PRN | |
| QPD-9.3 | Telecommunication | PH | |

| | | | |
|---------|---------------------------------|---------|--|
| QPD-9.4 | Equipment Type Email Address | | |
| QPD-9.6 | Area/City Code | 406 | |
| QPD-9.7 | Local Number | 5556285 | |
| QPD-10 | Multiple birth indicator | | |
| QPD-11 | Birth order | | |

Test Data Specification

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Patient Information

| Element | Data |
|---|------|
| This information will be automatically supplied by the System | |

Juror Document

| Evaluated Immunization History and Immunization Forecast | | |
|--|----------------------------------|----------------------------------|
| Test Case ID | IIZ-QR-4_Query_Too_Many | |
| Juror ID | | |
| Juror Name | | |
| HIT System Tested | | |
| Inspection Date/Time | | |
| Inspection Settlement (Pass/Fail) | Pass <input type="checkbox"/> | Fail <input type="checkbox"/> |
| Reason Failed | | |
| Juror Comments | | |

DISPLAY VERIFICATION

This Test Case-specific Juror Document provides a checklist for the Tester to use during certification testing for assessing the EHR technology's ability to display information notifying the HIT user that a Return Acknowledgement with No Person Records Z33 message was received (in response to an Evaluated Immunization History and Immunization Forecast Z44 query message). Additional data from the message or from the EHR are permitted to be displayed by the EHR.

The format of this Juror Document is for ease-of-use by the Tester and does not indicate how the EHR display must be designed.

The data shown in this Juror Document are derived from the test data provided with the given Test Case; equivalent data are permitted to be displayed by the EHR. The column headings are meant to convey the kind of data to be displayed; equivalent labels/column headings are permitted to be displayed by the EHR.

| Patient Information | | | | |
|--|--------------|------------|--------|----------------|
| Patient Identifier | Patient Name | DOB | Gender | Tester Comment |
| 412299 | James Smith | 09/05/2011 | Male | |
| When displayed in the EHR with the notification indicating that a Return Acknowledgement with No Person Records Z33 message was received, these patient demographics data are derived from the EHR patient record. | | | | |

| Evaluated Immunization History and Immunization Forecast |
|--|
| The EHR shall display a notification indicating that the query for an Evaluated Immunization History and Immunization Forecast is complete but too many matching records were found for the person in the query. |