| Location    | Data Element                          | Data                                | Categorization |
|-------------|---------------------------------------|-------------------------------------|----------------|
| MSH-1       | Field Separator                       |                                     |                |
| MSH-2       | Encoding Characters                   | ^~\&                                |                |
| MSH-3       | Sending Application                   |                                     |                |
| MSH-3.1     | Namespace ID                          | NISTIISAPP                          |                |
| MSH-4       | Sending Facility                      |                                     |                |
| MSH-4.1     | Namespace ID                          | NISTIISFAC                          |                |
| MSH-5       | Receiving Application                 |                                     |                |
| MSH-5.1     | Namespace ID                          | NISTEHRAPP                          |                |
| MSH-6       | Receiving Facility                    |                                     |                |
| MSH-6.1     | Namespace ID                          | NISTEHRFAC                          |                |
| 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-<br>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                               |                |
| ASH-15      | Accept Acknowledgment Type            | NE                                  |                |
| MSH-16      | Application Acknowledgment Type       | NE                                  |                |
| 4SH-21      | Message Profile Identifier            |                                     |                |
| MSH-21.1    | Entity Identifier                     | Z42                                 |                |
| MSH-21.2    | Namespace ID                          | CDCPHINVS                           |                |
| MSH-22      | Sending Responsible<br>Organization   |                                     |                |
| MSH-22.1    | Organization Name                     | NISTIISFAC                          |                |
| MSH-22.6    | Assigning Authority                   |                                     |                |
| MSH-22.6.1  | Namespace ID                          | NIST-AA-1                           |                |
| MSH-22.7    | Identifier Type Code                  | XX                                  |                |
| MSH-22.10   | Organization Identifier               | 100-3322                            |                |
| MSH-23      | Receiving Responsible<br>Organization |                                     |                |
| MSH-23.1    | Organization Name                     | NISTEHRFAC                          |                |
| 1 (CII 22 ( |                                       |                                     |                |

# MSA: Message Acknowledgment

NIST-AA-1

100-6482

XX

Assigning Authority

Identifier Type Code

Organization Identifier

Namespace ID

MSH-23.6

MSH-23.7

MSH-23.10

MSH-23.6.1

| Location | Data Element         | Data                             | Categorization |
|----------|----------------------|----------------------------------|----------------|
| MSA-1    | Acknowledgment Code  | AA                               |                |
| MSA-2    | Maccaga (Control II) | NIST-IZ-QR-<br>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 |  |
| ľ | 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-3.5   | 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<br>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  | P                                      |                |
| QPD-9     | Phone   |  |                |
| QPD-9.2   | Telecommunication Use<br>Code                         | PRN                                    |                |
| QPD-9.3   | Telecommunication<br>Equipment Type                   | РН                                     |                |
| QPD-9.5   | Country Code  | 1                                      |                |
| 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].5   | Identifier Type Code                                  | MR            |  |
| PID-3[1].6   | Assigning Facility                                    |               |  |
| PID-3[1].6.1 | Namespace ID  | 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].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<br>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  | P             |  |
| 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-3    | Filler Order Number   |              |                |
| ORC-3.1  | Entity Identifier     | 193337027    |                |
| ORC-3.2  | Namespace ID          | NIST-AA-IZ-2 |                |
| 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-3    | Filler Order Number          |              |                |  |
| ORC-3.1  | Entity Identifier            | 9999         |                |  |
| ORC-3.2  | Namespace ID                 | NIST-AA-IZ-2 |                |  |
| ORC-17   | <b>Entering Organization</b> |              |                |  |

| 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<br>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<br>Names or Initials Thereof |                         |                |
| RXA-10.9   | Assigning Authority                                   |                         |                |
| RXA-10.9.1 | Namespace ID  | NIST-PI-1               |                |
| 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-17     | Substance Manufacturer<br>Name                        |                         |                |
| RXA-17.1   | Identifier  | CSL                     |                |
| RXA-17.2   | Text  | bioCSL                  |                |
| RXA-17.3   | Name of Coding System                                 | MVX                     |                |
| RXA-20     | Completion Status                                     | СР                      |                |

# -RXA: Pharmacy/Treatment Administration -

| Location | Data Element                         | Data | Categorization |
|----------|--------------------------------------|------|----------------|
| RXA-1    | Give Sub-ID Counter                  | 0    |                |
| RXA-2    | Administration Sub-ID<br>Counter     | 1    |                |
| RXA-3    | Date/Time Start of<br>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-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                  |        |                |

# 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-11   | Observation Result Status    | F             |                |
| OBX-14   | Date/Time of the Observation |               |                |
| OBX-14.1 | Time                         |               |                |

| 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-11   | Observation Result Status    | F                          |                |
| OBX-14   | Date/Time of the Observation |                            |                |
| OBX-14.1 | Time                         | 20151029                   |                |
|          |                              |                            |                |
|          | OBX : Obser                  | vation/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-11   | Observation Result Status    | F             |                |
| OBX-14   | Date/Time of the Observation |               |                |
| OBX-14.1 | Time                         | 20151029      |                |

| 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-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-11   | Observation Result Status    | F                          |                |
| OBX-14   | Date/Time of the Observation |                            |                |
| OBX-14.1 | Time                         |                            |                |

| 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-11   | Observation Result Status    | F        |  |
| OBX-14   | Date/Time of the Observation | 1        |  |
| OBX-14.1 | Time                         |          |  |

| 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-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-11   | Observation Result Status    | F             |                |
| OBX-14   | Date/Time of the Observation |               |                |
| OBX-14.1 | Time                         |               |                |

| 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-11   | Observation Result Status    | F                          |                |
| OBX-14   | Date/Time of the Observation |                            |                |
| OBX-14.1 | Time                         |                            |                |

| 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-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-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-11   | Observation Result Status    | F            |                |
| OBX-14   | Date/Time of the Observation |              |                |
| OBX-14.1 | Time                         |              |                |

| 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-11   | Observation Result Status    | F         |  |
| OBX-14   | Date/Time of the Observation |           |  |
| OBX-14.1 | Time                         |           |  |

| -( | OF | RX | • ( | O | hse | rva | tio | n/I | Ses. | nlı | t |
|----|----|----|-----|---|-----|-----|-----|-----|------|-----|---|
|    |    |    |     |   |     |     |     |     |      |     |   |

| 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-11   | Observation Result Status    | F                    |                |
| OBX-14   | Date/Time of the Observation |                      |                |
| OBX-14.1 | Time                         |                      |                |

| 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-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-11   | Observation Result Status    | F            |                |
| OBX-14   | Date/Time of the Observation |              |                |
| OBX-14.1 | Time                         |              |                |

| 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-11   | Observation Result Status    | F                          |                |
| OBX-14   | Date/Time of the Observation |                            |                |
| OBX-14.1 | Time                         |                            |                |

| 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-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-11   | Observation Result Status    | F                     |                |
| OBX-14   | Date/Time of the Observation |                       |                |
| OBX-14.1 | Time                         |                       |                |

| 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                         | Нер В |  |
| OBX-5.3  | Name of Coding System        | CVX   |  |
| OBX-11   | Observation Result Status    | F     |  |
| OBX-14   | Date/Time of the Observation |       |  |
| OBX-14.1 | Time                         |       |  |

| 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-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-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-11   | Observation Result Status    | F                     |                |
| OBX-14   | Date/Time of the Observation |                       |                |
| OBX-14.1 | Time                         |                       |                |

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

| 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-11   | Observation Result Status    | F            |  |
| OBX-14   | Date/Time of the Observation |              |  |
| OBX-14.1 | Time                         |              |  |

| 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-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-11   | Observation Result Status    | F                    |                |
| OBX-14   | Date/Time of the Observation |                      |                |
| OBX-14.1 | Time                         |                      |                |

| 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-11   | Observation Result Status    | F        |  |
| OBX-14   | Date/Time of the Observation |          |  |
| OBX-14.1 | Time                         |          |  |

| 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-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-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-11   | Observation Result Status    | F                    |                |
| OBX-14   | Date/Time of the Observation |                      |                |
| OBX-14.1 | Time                         |                      |                |

| 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-11   | Observation Result Status    | F                     |                |
| OBX-14   | Date/Time of the Observation |                       |                |
| OBX-14.1 | Time                         |                       |                |

| 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-11   | Observation Result Status    | F            |                |
| OBX-14   | Date/Time of the Observation | ı            |                |
| 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-11   | Observation Result Status    | F                          |                |
| OBX-14   | Date/Time of the Observation |                            |                |
| OBX-14.1 | Time                         |                            |                |

| 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-11   | Observation Result Status    | F        |  |
| OBX-14   | Date/Time of the Observation | 1        |  |
| OBX-14.1 | Time                         |          |  |

| 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-11   | Observation Result Status    | F                     |                |
| OBX-14   | Date/Time of the Observation |                       |                |
| OBX-14.1 | Time                         |                       |                |