

**MSH[1]**

| 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                       | NISTAPP                      | Presence-Configuration       |
| MSH-3.2   | Universal ID                       |                              | Indifferent                  |
| MSH-3.3   | Universal ID Type                  |                              | Indifferent                  |
| MSH-4     | Sending Facility                   |                              |                              |
| MSH-4.1   | Namespace ID                       | NISTFAC                      | Presence-Configuration       |
| MSH-4.2   | Universal ID                       |                              | Indifferent                  |
| MSH-4.3   | Universal ID Type                  |                              | Indifferent                  |
| MSH-5     | Receiving Application              |                              |                              |
| MSH-5.1   | Namespace ID                       | IISAPP                       | Presence-Configuration       |
| MSH-5.2   | Universal ID                       |                              | Indifferent                  |
| MSH-5.3   | Universal ID Type                  |                              | Indifferent                  |
| MSH-6     | Receiving Facility                 |                              |                              |
| MSH-6.1   | Namespace ID                       | IISFAC                       | 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                               | 20200125101737.232-0500      | 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-1.1-AA_Send_COVID-2M | 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                  | NISTFAC                      | Presence-Configuration       |
| MSH-22.6  | Assigning Authority                |                              |                              |
| MSH-22.7  | Identifier Type Code               |                              | Indifferent                  |
| MSH-22.10 | Organization Identifier            |                              | Indifferent                  |
| MSH-23    | Receiving Responsible Organization |                              |                              |
| MSH-23.1  | Organization Name                  | IISFAC                       | Presence-Configuration       |
| MSH-23.6  | Assigning Authority                |                              |                              |
| MSH-23.7  | Identifier Type Code               |                              | Indifferent                  |
| MSH-23.10 | Organization Identifier            |                              | Indifferent                  |

**PID[1]**

| 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-3.5     | 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  | Xhang                  | Indifferent                  |
| PID-6.7     | Name Type Code                                     | M                      | Value-Profile Fixed          |
| PID-7       | Date/Time of Birth                                 |                        |                              |
| PID-7.1     | Time   | 19880417               | Presence-Content Indifferent |
| PID-8       | Administrative Sex                                 | F                      | Value-Test Case Fixed        |
| PID-10[1]   | Race   |                        |                              |
| PID-10[1].1 | Identifier   | 2028-9                 | Value-Test Case Fixed        |
| PID-10[1].2 | Text   | Asian                  | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System                              | CDCREC                 | Value-Profile Fixed          |
| PID-10[2]   | Race   |                        |                              |
| PID-10[2].1 | Identifier   | 2131-1                 | Value-Test Case Fixed        |
| PID-10[2].2 | Text   | Other Race             | Presence-Test Case Proper    |
| PID-10[2].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   | Birmingham             | Presence-Content Indifferent |
| PID-11.4    | State or Province                                  | AL                     | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code                                 | 35203                  | Presence-Content Indifferent |
| PID-11.6    | Country  | USA                    | Presence-Content Indifferent |
| PID-11.7    | Address Type                                       | P                      | Value-Test Case Fixed List   |
| 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                                      |                        |                              |
| PID-13[1].6 | Area/City Code                                     | 406                    | Presence-Content Indifferent |
| PID-13[1].7 | Local Number                                       | 5554019                | 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                   |                        | Indifferent                  |
| 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[1]**

| 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 | 20031221                     | Presence-Content Indifferent |
| PD1-18   | Publicity Code Effective Date               | 20150624                     | Presence-Content Indifferent |

**ORDER[1].ORC[1]**

| Location   | Data Element                                       | Data         | Categorization               |
|------------|--|--------------|------------------------------|
| ORC-1      | Order Control                                      | RE           | Value-Profile Fixed          |
| ORC-2      | Placer Order Number                                |              |                              |
| ORC-2.1    | Entity Identifier                                  | 9345         | Presence-Content Indifferent |
| ORC-2.2    | Namespace ID                                       | NIST-AA-IZ-1 | 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                                  | 34555        | Presence-Content Indifferent |
| ORC-3.2    | Namespace ID                                       | NIST-AA-IZ-1 | 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  | 1919         | Presence-Content Indifferent |
| ORC-10.2   | Family Name  |              |                              |
| ORC-10.2.1 | Surname  | Shaw         | Presence-Content Indifferent |
| ORC-10.3   | Given Name   | Robert       | Presence-Content Indifferent |
| ORC-10.4   | Second and Further Given Names or Initials Thereof | William      | Presence-Content Indifferent |
| ORC-10.9   | Assigning Authority                                |              |                              |
| ORC-10.10  | Name Type Code                                     | L            | Value-Test Case Fixed        |
| ORC-10.13  | Identifier Type Code                               | PRN          | Value-Test Case Fixed List   |
| 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-12.10  | Name Type Code                                     | L            | Value-Test Case Fixed        |
| ORC-12.13  | Identifier Type Code                               | RPH          | Value-Test Case Fixed List   |
| 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          |

**ORDER[1].RXA[1]**

| 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   | 20210125                 | Presence-Content Indifferent |
| RXA-5      | Administered Code                                  |                          |                              |
| RXA-5.1    | Identifier   | 80777-0273-99            | Value-Test Case Fixed List   |
| RXA-5.2    | Text   | Moderna COVID-19 Vaccine | Presence-Test Case Proper    |
| RXA-5.3    | Name of Coding System                              | NDC                      | Value-Profile Fixed          |
| RXA-6      | Administered Amount                                | 0.5                      | Value-Test Case Fixed        |
| 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  | 1919                     | Presence-Content Indifferent |
| RXA-10.2   | Family Name  |                          |                              |
| RXA-10.2.1 | Surname  | Shaw                     | Presence-Content Indifferent |
| RXA-10.3   | Given Name   | Robert                   | Presence-Content Indifferent |
| RXA-10.4   | Second and Further Given Names or Initials Thereof | William                  | Presence-Content Indifferent |
| RXA-10.9   | Assigning Authority                                |                          |                              |
| RXA-10.10  | Name Type Code                                     | L                        | Value-Test Case Fixed        |
| RXA-10.13  | Identifier Type Code                               | PRN                      | Value-Test Case Fixed List   |
| RXA-11     | Administered-at Location                           |                          |                              |
| RXA-11.4   | Facility   |                          |                              |
| RXA-15     | Substance Lot Number                               | 025L32B                  | Presence-Content Indifferent |
| RXA-16     | Substance Expiration Date                          |                          |                              |
| RXA-16.1   | Time   | 20210301                 | Presence-Content Indifferent |
| RXA-17     | Substance Manufacturer Name                        |                          |                              |
| RXA-17.1   | Identifier   | MOD                      | Value-Test Case Fixed        |
| RXA-17.2   | Text   | Moderna US, 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        |

**ORDER[1].RXR[1]**

| 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       |

**ORDER[1].OBSERVATION[1].OBX[1]**

| 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                         | 20210125               | 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                  |

**ORDER[1].OBSERVATION[2].OBX[1]**

| 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                  | 20210125                                       | Presence-Content Indifferent |
| OBX-17   | Observation Method    |  |                              |
| OBX-17.1 | Identifier            | VXC40  | Value-Test Case Fixed        |
| OBX-17.2 | Text                  | Eligibility captured at the immunization level | Presence-Test Case Proper    |
| OBX-17.3 | Name of Coding System | CDCPHINVS                                      | Value-Profile Fixed          |

**ORDER[1].OBSERVATION[3].OBX[1]**

| 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                   | 253088698300034911220901  | Value-Test Case Fixed        |
| OBX-5.2  | Text                         | COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet " 6 yrs and older | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System        | cdcgslvis   | 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                         | 20201201  | 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                  |

**ORDER[1].OBSERVATION[4].OBX[1]**

| 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 Vaccine Information Statement 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            | 20210125                                     | 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                         | 20210125                                     | 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 |

**ORDER[1].OBSERVATION[5].OBX[1]**

| Location | Data Element                 | Data                  | Categorization               |
|----------|------------------------------|-----------------------|------------------------------|
| OBX-1    | Set ID - OBX                 | 5                     | Value-Profile Fixed          |
| OBX-2    | Value Type                   | ST                    | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier       |                       |                              |
| OBX-3.1  | Identifier                   | 30973-2               | Value-Test Case Fixed        |
| OBX-3.2  | Text                         | dose number in series | 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            | 2                     | Presence-Content Indifferent |
| OBX-6    | Units                        |                       |                              |
| OBX-6.1  | Identifier                   |                       |                              |
| OBX-6.2  | Text                         |                       |                              |
| OBX-6.3  | Name of Coding System        |                       |                              |
| OBX-11   | Observation Result Status    | F                     | Value-Profile Fixed          |
| OBX-14   | Date/Time of the Observation |                       |                              |
| OBX-14.1 | Time                         | 20210125              | Presence-Content Indifferent |
| OBX-17   | Observation Method           |                       |                              |
| OBX-17.1 | Identifier                   |                       |                              |
| OBX-17.2 | Text                         |                       |                              |
| OBX-17.3 | Name of Coding System        |                       |                              |

**ORDER[1].OBSERVATION[6].OBX[1]**

| Location | Data Element                 | Data                          | Categorization               |
|----------|------------------------------|-------------------------------|------------------------------|
| OBX-1    | Set ID - OBX                 | 6                             | Value-Profile Fixed          |
| OBX-2    | Value Type                   | CE                            | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier       |                               |                              |
| OBX-3.1  | Identifier                   | 59783-1                       | Value-Test Case Fixed        |
| OBX-3.2  | Text                         | Status in immunization series | 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                   | Y                             | Value-Test Case Fixed        |
| OBX-5.2  | Text                         | Yes                           | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System        | HL70136                       | Value-Profile Fixed          |
| OBX-6    | Units                        |                               |                              |
| OBX-6.1  | Identifier                   |                               |                              |
| OBX-6.2  | Text                         |                               |                              |
| OBX-6.3  | Name of Coding System        |                               |                              |
| OBX-11   | Observation Result Status    | F                             | Value-Profile Fixed          |
| OBX-14   | Date/Time of the Observation |                               |                              |
| OBX-14.1 | Time                         | 20210125                      | Presence-Content Indifferent |
| OBX-17   | Observation Method           |                               |                              |
| OBX-17.1 | Identifier                   |                               |                              |
| OBX-17.2 | Text                         |                               |                              |
| OBX-17.3 | Name of Coding System        |                               |                              |

**ORDER[2].ORC[1]**

| 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-1    | 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-1    | 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-10.10  | 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-12.10  | 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          |

**ORDER[2].RXA[1]**

| 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                              | 20201228                  | Presence-Content Indifferent |
| RXA-5    | Administered Code                 |                           |                              |
| RXA-5.1  | Identifier                        | 80777-0273-99             | Value-Test Case Fixed List   |
| RXA-5.2  | Text                              | Moderna                   | Presence-Test Case Proper    |
| RXA-5.3  | Name of Coding System             | NDC                       | Value-Profile Fixed          |
| RXA-6    | Administered Amount               | 0.5                       | Value-Test Case Fixed        |
| 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                        | 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  | 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-10.10  | 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-15     | Substance Lot Number                               | 025L20A          | Indifferent                  |
| RXA-16     | Substance Expiration Date                          |                  |                              |
| RXA-16.1   | Time   | 20210205         | Indifferent                  |
| RXA-17     | Substance Manufacturer Name                        |                  |                              |
| RXA-17.1   | Identifier   | MOD              | Indifferent                  |
| RXA-17.2   | Text   | Moderna US, Inc. | Indifferent                  |
| RXA-17.3   | Name of Coding System                              | MVX              | 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        |

| 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          | NISTAPP                 | Presence-Configuration    |
| MSH-3.2  | Universal ID          |                         | Indifferent               |
| MSH-3.3  | Universal ID Type     |                         | Indifferent               |
| MSH-4    | Sending Facility      |                         |                           |
| MSH-4.1  | Namespace ID          | NISTFAC                 | Presence-Configuration    |
| MSH-4.2  | Universal ID          |                         | Indifferent               |
| MSH-4.3  | Universal ID Type     |                         | Indifferent               |
| MSH-5    | Receiving Application |                         |                           |
| MSH-5.1  | Namespace ID          | IISAPP                  | Presence-Configuration    |
| MSH-5.2  | Universal ID          |                         | Indifferent               |
| MSH-5.3  | Universal ID Type     |                         | Indifferent               |
| MSH-6    | Receiving Facility    |                         |                           |
| MSH-6.1  | Namespace ID          | IISFAC                  | 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                  | 20200125101737.232-0500 | 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-1.1-AA_Send_COVID-2M | 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                  | NISTFAC                      | Presence-Configuration       |
| MSH-22.6  | Assigning Authority                |                              |                              |
| MSH-22.7  | Identifier Type Code               |                              | Indifferent                  |
| MSH-22.10 | Organization Identifier            |                              | Indifferent                  |
| MSH-23    | Receiving Responsible Organization |                              |                              |
| MSH-23.1  | Organization Name                  | IISFAC                       | Presence-Configuration       |
| MSH-23.6  | Assigning Authority                |                              |                              |
| MSH-23.7  | Identifier Type Code               |                              | Indifferent                  |
| MSH-23.10 | Organization Identifier            |                              | Indifferent                  |

| 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-3.5     | 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  | Xhang      | Indifferent                  |
| PID-6.7     | Name Type Code                                     | M          | Value-Profile Fixed          |
| PID-7       | Date/Time of Birth                                 |            |                              |
| PID-7.1     | Time   | 19880417   | Presence-Content Indifferent |
| PID-8       | Administrative Sex                                 | F          | Value-Test Case Fixed        |
| PID-10[1]   | Race   |            |                              |
| PID-10[1].1 | Identifier   | 2028-9     | Value-Test Case Fixed        |
| PID-10[1].2 | Text   | Asian      | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System                              | CDCREC     | Value-Profile Fixed          |
| PID-10[2]   | Race   |            |                              |
| PID-10[2].1 | Identifier   | 2131-1     | Value-Test Case Fixed        |
| PID-10[2].2 | Text   | Other Race | Presence-Test Case Proper    |
| PID-10[2].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                             | Birmingham             | Presence-Content Indifferent |
| PID-11.4    | State or Province                | AL                     | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code               | 35203                  | Presence-Content Indifferent |
| PID-11.6    | Country                          | USA                    | Presence-Content Indifferent |
| PID-11.7    | Address Type                     | P                      | Value-Test Case Fixed List   |
| 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                    |                        |                              |
| PID-13[1].6 | Area/City Code                   | 406                    | Presence-Content Indifferent |
| PID-13[1].7 | Local Number                     | 5554019                | 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 |                        | Indifferent                  |
| 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        |

| 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 | 20031221                     | Presence-Content Indifferent |
| PD1-18   | Publicity Code Effective Date               | 20150624                     | Presence-Content Indifferent |

**ORC - 1**

| Location | Data Element        | Data         | Categorization               |
|----------|---------------------|--------------|------------------------------|
| ORC-1    | Order Control       | RE           | Value-Profile Fixed          |
| ORC-2    | Placer Order Number |              |                              |
| ORC-2.1  | Entity Identifier   | 9345         | Presence-Content Indifferent |
| ORC-2.2  | Namespace ID        | NIST-AA-IZ-1 | 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                                  | 34555           | Presence-Content Indifferent |
| ORC-3.2    | Namespace ID                                       | NIST-AA-IZ-1    | 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  | 1919            | Presence-Content Indifferent |
| ORC-10.2   | Family Name  |                 |                              |
| ORC-10.2.1 | Surname  | Shaw            | Presence-Content Indifferent |
| ORC-10.3   | Given Name   | Robert          | Presence-Content Indifferent |
| ORC-10.4   | Second and Further Given Names or Initials Thereof | William         | Presence-Content Indifferent |
| ORC-10.9   | Assigning Authority                                |                 |                              |
| ORC-10.10  | Name Type Code                                     | L               | Value-Test Case Fixed        |
| ORC-10.13  | Identifier Type Code                               | PRN             | Value-Test Case Fixed List   |
| 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-12.10  | Name Type Code                                     | L               | Value-Test Case Fixed        |
| ORC-12.13  | Identifier Type Code                               | RPH             | Value-Test Case Fixed List   |
| 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 - 2

| 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-1 | 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-1 | 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-10.10  | 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-12.10  | 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 - 1

| 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   | 20210125                 | Presence-Content Indifferent |
| RXA-5      | Administered Code                                  |                          |                              |
| RXA-5.1    | Identifier   | 80777-0273-99            | Value-Test Case Fixed List   |
| RXA-5.2    | Text   | Moderna COVID-19 Vaccine | Presence-Test Case Proper    |
| RXA-5.3    | Name of Coding System                              | NDC                      | Value-Profile Fixed          |
| RXA-6      | Administered Amount                                | 0.5                      | Value-Test Case Fixed        |
| 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  | 1919                     | Presence-Content Indifferent |
| RXA-10.2   | Family Name  |                          |                              |
| RXA-10.2.1 | Surname  | Shaw                     | Presence-Content Indifferent |
| RXA-10.3   | Given Name   | Robert                   | Presence-Content Indifferent |
| RXA-10.4   | Second and Further Given Names or Initials Thereof | William                  | Presence-Content Indifferent |
| RXA-10.9   | Assigning Authority                                |                          |                              |
| RXA-10.10  | Name Type Code                                     | L                        | Value-Test Case Fixed        |
| RXA-10.13  | Identifier Type Code                               | PRN                      | Value-Test Case Fixed List   |
| RXA-11     | Administered-at Location                           |                          |                              |
| RXA-11.4   | Facility   |                          |                              |
| RXA-15     | Substance Lot Number                               | 025L32B                  | Presence-Content Indifferent |
| RXA-16     | Substance Expiration Date                          |                          |                              |
| RXA-16.1   | Time   | 20210301                 | Presence-Content Indifferent |
| RXA-17     | Substance Manufacturer Name                        |                          |                              |
| RXA-17.1   | Identifier   | MOD                      | Value-Test Case Fixed        |
| RXA-17.2   | Text   | Moderna US, 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 - 2**

| 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   | 20201228                  | Presence-Content Indifferent |
| RXA-5      | Administered Code                                  |                           |                              |
| RXA-5.1    | Identifier   | 80777-0273-99             | Value-Test Case Fixed List   |
| RXA-5.2    | Text   | Moderna                   | Presence-Test Case Proper    |
| RXA-5.3    | Name of Coding System                              | NDC                       | Value-Profile Fixed          |
| RXA-6      | Administered Amount                                | 0.5                       | Value-Test Case Fixed        |
| 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   | 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  | 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-10.10  | 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-15     | Substance Lot Number                               | 025L20A                   | Indifferent                  |
| RXA-16     | Substance Expiration Date                          |                           |                              |
| RXA-16.1   | Time   | 20210205                  | Indifferent                  |
| RXA-17     | Substance Manufacturer Name                        |                           |                              |
| RXA-17.1   | Identifier   | MOD                       | Indifferent                  |
| RXA-17.2   | Text   | Moderna US, Inc.          | Indifferent                  |
| RXA-17.3   | Name of Coding System                              | MVX                       | 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        |

| 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 - 1

| 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                         | 20210125               | 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 - 2

| 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                         | 20210125                                       | Presence-Content Indifferent |
| OBX-17   | Observation Method           |  |                              |
| OBX-17.1 | Identifier                   | VXC40  | Value-Test Case Fixed        |
| OBX-17.2 | Text                         | Eligibility captured at the immunization level | Presence-Test Case Proper    |
| OBX-17.3 | Name of Coding System        | CDCPHINVS                                      | Value-Profile Fixed          |

#### OBX - 3

| 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                   | 253088698300034911220901  | Value-Test Case Fixed        |
| OBX-5.2  | Text                         | COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet “ 6 yrs and older | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System        | cdcgslvis   | 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                         | 20201201  | 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 - 4

| 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 Vaccine Information Statement 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         | 20210125                                     | 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                         | 20210125 | 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 - 5

| Location | Data Element                 | Data                  | Categorization               |
|----------|------------------------------|-----------------------|------------------------------|
| OBX-1    | Set ID - OBX                 | 5                     | Value-Profile Fixed          |
| OBX-2    | Value Type                   | ST                    | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier       |                       |                              |
| OBX-3.1  | Identifier                   | 30973-2               | Value-Test Case Fixed        |
| OBX-3.2  | Text                         | dose number in series | 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            | 2                     | Presence-Content Indifferent |
| OBX-6    | Units                        |                       |                              |
| OBX-6.1  | Identifier                   |                       |                              |
| OBX-6.2  | Text                         |                       |                              |
| OBX-6.3  | Name of Coding System        |                       |                              |
| OBX-11   | Observation Result Status    | F                     | Value-Profile Fixed          |
| OBX-14   | Date/Time of the Observation |                       |                              |
| OBX-14.1 | Time                         | 20210125              | Presence-Content Indifferent |
| OBX-17   | Observation Method           |                       |                              |
| OBX-17.1 | Identifier                   |                       |                              |
| OBX-17.2 | Text                         |                       |                              |
| OBX-17.3 | Name of Coding System        |                       |                              |

#### OBX - 6

| Location | Data Element                 | Data                          | Categorization               |
|----------|------------------------------|-------------------------------|------------------------------|
| OBX-1    | Set ID - OBX                 | 6                             | Value-Profile Fixed          |
| OBX-2    | Value Type                   | CE                            | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier       |                               |                              |
| OBX-3.1  | Identifier                   | 59783-1                       | Value-Test Case Fixed        |
| OBX-3.2  | Text                         | Status in immunization series | 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                   | Y                             | Value-Test Case Fixed        |
| OBX-5.2  | Text                         | Yes                           | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System        | HL70136                       | Value-Profile Fixed          |
| OBX-6    | Units                        |                               |                              |
| OBX-6.1  | Identifier                   |                               |                              |
| OBX-6.2  | Text                         |                               |                              |
| OBX-6.3  | Name of Coding System        |                               |                              |
| OBX-11   | Observation Result Status    | F                             | Value-Profile Fixed          |
| OBX-14   | Date/Time of the Observation |                               |                              |
| OBX-14.1 | Time                         | 20210125                      | Presence-Content Indifferent |
| OBX-17   | Observation Method           |                               |                              |
| OBX-17.1 | Identifier                   |                               |                              |
| OBX-17.2 | Text                         |                               |                              |

|          |                       |  |  |
|----------|-----------------------|--|--|
| OBX-17.3 | Name of Coding System |  |  |
|----------|-----------------------|--|--|