

### MSH : Message Header

| Location | Data Element                    | Data                         | Categorization               |
|----------|---------------------------------|------------------------------|------------------------------|
| MSH-1    | Field Separator                 |                              | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                         | Value-Profile Fixed          |
| MSH-3    | Sending Application             |                              |                              |
| MSH-3.1  | Namespace ID                    | NISTEHRAPP                   | Presence-Configuration       |
| MSH-3.2  | Universal ID                    |                              | Indifferent                  |
| MSH-3.3  | Universal ID Type               |                              | Indifferent                  |
| MSH-4    | Sending Facility                |                              |                              |
| MSH-4.1  | Namespace ID                    | NISTEHRFAC                   | Presence-Configuration       |
| MSH-4.2  | Universal ID                    |                              | Indifferent                  |
| MSH-4.3  | Universal ID Type               |                              | Indifferent                  |
| MSH-5    | Receiving Application           |                              |                              |
| MSH-5.1  | Namespace ID                    | NISTIISAPP                   | Presence-Configuration       |
| MSH-5.2  | Universal ID                    |                              | Indifferent                  |
| MSH-5.3  | Universal ID Type               |                              | Indifferent                  |
| MSH-6    | Receiving Facility              |                              |                              |
| MSH-6.1  | Namespace ID                    | NISTIISFAC                   | Presence-Configuration       |
| MSH-6.2  | Universal ID                    |                              | Indifferent                  |
| MSH-6.3  | Universal ID Type               |                              | Indifferent                  |
| MSH-7    | Date/Time Of Message            |                              |                              |
| MSH-7.1  | Time                            | 20150625072816.601-0500      | Presence-System Generated    |
| MSH-9    | Message Type                    |                              |                              |
| MSH-9.1  | Message Code                    | VXU                          | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | V04                          | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | VXU_V04                      | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-IZ-AD-10.1_Send_V04_Z22 | Presence-System Generated    |
| MSH-11   | Processing ID                   |                              |                              |
| MSH-11.1 | Processing ID                   | P                            | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                              |                              |
| MSH-12.1 | Version ID                      | 2.5.1                        | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | ER                           | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type | AL                           | Value-Profile Fixed          |
| MSH-21   | Message Profile                 |                              |                              |

|            |                                    |            |                        |
|------------|------------------------------------|------------|------------------------|
|            | Identifier                         |            |                        |
| MSH-21.1   | Entity Identifier                  | Z22        | Value-Profile Fixed    |
| MSH-21.2   | Namespace ID                       | CDCPHINVS  | Value-Profile Fixed    |
| MSH-21.3   | Universal ID                       |            | Indifferent            |
| MSH-21.4   | Universal ID Type                  |            | Indifferent            |
| MSH-22     | Sending Responsible Organization   |            |                        |
| MSH-22.1   | Organization Name                  | NISTEHRFAC | Presence-Configuration |
| MSH-22.6   | Assigning Authority                |            |                        |
| MSH-22.6.1 | Namespace ID                       |            | Presence-Configuration |
| MSH-22.6.2 | Universal ID                       |            | Indifferent            |
| MSH-22.6.3 | Universal ID Type                  |            | Indifferent            |
| MSH-22.7   | Identifier Type Code               |            | Indifferent            |
| MSH-22.10  | Organization Identifier            |            | Indifferent            |
| MSH-23     | Receiving Responsible Organization |            |                        |
| MSH-23.1   | Organization Name                  | NISTIISFAC | Presence-Configuration |
| MSH-23.6   | Assigning Authority                |            |                        |
| MSH-23.6.1 | Namespace ID                       |            | Presence-Configuration |
| MSH-23.6.2 | Universal ID                       |            | Indifferent            |
| MSH-23.6.3 | Universal ID Type                  |            | Indifferent            |
| MSH-23.7   | Identifier Type Code               |            | Indifferent            |
| MSH-23.10  | Organization Identifier            |            | Indifferent            |

### PID : Patient Identification

| Location  | Data Element            | Data       | Categorization               |
|-----------|-------------------------|------------|------------------------------|
| PID-1     | Set ID - PID            | 1          | Value-Profile Fixed          |
| PID-3     | Patient Identifier List |            |                              |
| PID-3.1   | ID Number               | 21142      | Presence-Content Indifferent |
| PID-3.4   | Assigning Authority     |            |                              |
| PID-3.4.1 | Namespace ID            | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID            |            | Indifferent                  |
| PID-3.4.3 | Universal ID Type       |            | Indifferent                  |
| PID-3.5   | Identifier Type Code    | MR         | Value-Test Case Fixed        |
| PID-5     | Patient Name            |            |                              |
| PID-5.1   | Family Name             |            |                              |

|             |  |              |                              |
|-------------|--|--------------|------------------------------|
| PID-5.1.1   | Surname  | Vasquez      | Presence-Content Indifferent |
| PID-5.2     | Given Name   | Manuel       | Presence-Content Indifferent |
| PID-5.3     | Second and Further Given Names or Initials Thereof | Diego        | Presence-Content Indifferent |
| PID-5.7     | Name Type Code                                     | L            | Value-Test Case Fixed        |
| PID-6       | Mother's Maiden Name                               |              |                              |
| PID-6.1     | Family Name  |              |                              |
| PID-6.1.1   | Surname  |              | Presence-Content Indifferent |
| PID-6.7     | Name Type Code                                     |              | Value-Profile Fixed          |
| PID-7       | Date/Time of Birth                                 |              |                              |
| PID-7.1     | Time   | 19470215     | Presence-Content Indifferent |
| PID-8       | Administrative Sex                                 | M            | Value-Test Case Fixed        |
| PID-10      | Race   |              |                              |
| PID-10.1    | Identifier   | 2106-3       | Value-Test Case Fixed        |
| PID-10.2    | Text   | White        | Presence-Test Case Proper    |
| PID-10.3    | Name of Coding System                              | CDCREC       | Value-Profile Fixed          |
| PID-11      | Patient Address                                    |              |                              |
| PID-11.1    | Street Address                                     |              |                              |
| PID-11.1.1  | Street or Mailing Address                          | 227 Park Ave | Presence-Content Indifferent |
| PID-11.2    | Other Designation                                  |              | Indifferent                  |
| PID-11.3    | City   | Bozeman      | Presence-Content Indifferent |
| PID-11.4    | State or Province                                  | MT           | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code                                 | 59715        | Presence-Content Indifferent |
| PID-11.6    | Country  | USA          | Presence-Content Indifferent |
| PID-11.7    | Address Type                                       | P            | Value-Test Case Fixed        |
| PID-13[1]   | Phone Number - Home                                |              |                              |
| PID-13[1].2 | Telecommunication Use Code                         | PRN          | Value-Test Case Fixed        |
| PID-13[1].3 | Telecommunication Equipment Type                   | PH           | Value-Test Case Fixed        |
| PID-13[1].4 | Email Address                                      |              | Presence-Content Indifferent |
| PID-13[1].6 | Area/City Code                                     | 406          | Presence-Content Indifferent |

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

### PD1 : Patient Additional Demographic

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

### ORC : Common Order

| Location   | Data Element                                       | Data            | Categorization               |
|------------|--|-----------------|------------------------------|
| ORC-1      | Order Control                                      | RE              | Value-Profile Fixed          |
| ORC-2      | Placer Order Number                                |                 |                              |
| ORC-2.1    | Entity Identifier                                  | 4486            | Presence-Content Indifferent |
| ORC-2.2    | Namespace ID                                       | NIST-AA-IZ-2    | Presence-Content Indifferent |
| ORC-2.3    | Universal ID                                       |                 | Indifferent                  |
| ORC-2.4    | Universal ID Type                                  |                 | Indifferent                  |
| ORC-3      | Filler Order Number                                |                 |                              |
| ORC-3.1    | Entity Identifier                                  | 31165           | Presence-Content Indifferent |
| ORC-3.2    | Namespace ID                                       | NIST-AA-IZ-2    | Presence-Content Indifferent |
| ORC-3.3    | Universal ID                                       |                 | Indifferent                  |
| ORC-3.4    | Universal ID Type                                  |                 | Indifferent                  |
| ORC-10     | Entered By   |                 |                              |
| ORC-10.1   | ID Number  | 7824            | Presence-Content Indifferent |
| ORC-10.2   | Family Name  |                 |                              |
| ORC-10.2.1 | Surname  | Jackson         | Presence-Content Indifferent |
| ORC-10.3   | Given Name   | Lily            | Presence-Content Indifferent |
| ORC-10.4   | Second and Further Given Names or Initials Thereof | Suzanne         | Presence-Content Indifferent |
| ORC-10.9   | Assigning Authority                                |                 |                              |
| ORC-10.9.1 | Namespace ID                                       | NIST-PI-1       | Presence-Content Indifferent |
| ORC-10.9.2 | Universal ID                                       |                 | Indifferent                  |
| ORC-10.9.3 | Universal ID Type                                  |                 | Indifferent                  |
| ORC-10.10  | Name Type Code                                     | L               | Value-Test Case Fixed        |
| ORC-10.13  | Identifier Type Code                               | PRN             | Value-Test Case Fixed        |
| ORC-17     | Entering Organization                              |                 |                              |
| ORC-17.1   | Identifier   | NISTEHRFAC      | Presence-Content Indifferent |
| ORC-17.2   | Text   | NISTEHRFacility | Presence-Content Indifferent |
| ORC-17.3   | Name of Coding System                              | HL70362         | Value-Profile Fixed          |

### RXA : Pharmacy/Treatment Administration

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

|            |  |   |                              |
|------------|--|---|------------------------------|
| RXA-1      | Give Sub-ID Counter                                | 0   | Value-Profile Fixed          |
| RXA-2      | Administration Sub-ID Counter                      | 1   | Value-Profile Fixed          |
| RXA-3      | Date/Time Start of Administration                  |   |                              |
| RXA-3.1    | Time   | 20141021  | Presence-Content Indifferent |
| RXA-5      | Administered Code                                  |   |                              |
| RXA-5.1    | Identifier   | 152   | Value-Test Case Fixed        |
| RXA-5.2    | Text   | Pneumococcal Conjugate, unspecified formulation | Presence-Test Case Proper    |
| RXA-5.3    | Name of Coding System                              | CVX   | Value-Profile Fixed          |
| RXA-6      | Administered Amount                                | 999   | Presence-Test Case Proper    |
| RXA-7      | Administered Units                                 |   |                              |
| RXA-7.1    | Identifier   |   | Value-Test Case Fixed        |
| RXA-7.2    | Text   |   | Presence-Test Case Proper    |
| RXA-7.3    | Name of Coding System                              |   | 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  |   | Presence-Content Indifferent |
| RXA-10.2   | Family Name  |   |                              |
| RXA-10.2.1 | Surname  |   | Presence-Content Indifferent |
| RXA-10.3   | Given Name   |   | Presence-Content Indifferent |
| RXA-10.4   | Second and Further Given Names or Initials Thereof |   | Presence-Content Indifferent |
| RXA-10.9   | Assigning Authority                                |   |                              |
| RXA-10.9.1 | Namespace ID                                       |   | Presence-Content Indifferent |
| RXA-10.9.2 | Universal ID                                       |   | Indifferent                  |
| RXA-10.9.3 | Universal ID Type                                  |   | Indifferent                  |
| RXA-10.10  | Name Type Code                                     |   | Value-Test Case Fixed        |
| RXA-10.13  | Identifier Type Code                               |   | Value-Test Case Fixed        |

|            |                                    |    |                              |
|------------|------------------------------------|----|------------------------------|
| RXA-11     | Administered-at Location           |    |                              |
| RXA-11.4   | Facility                           |    |                              |
| RXA-11.4.1 | Namespace ID                       |    | Presence-Content Indifferent |
| RXA-11.4.2 | Universal ID                       |    | Indifferent                  |
| RXA-11.4.3 | Universal ID Type                  |    | Indifferent                  |
| RXA-15     | Substance Lot Number               |    | Presence-Content Indifferent |
| RXA-16     | Substance Expiration Date          |    |                              |
| RXA-16.1   | Time                               |    | Presence-Content Indifferent |
| RXA-17     | Substance Manufacturer Name        |    |                              |
| RXA-17.1   | Identifier                         |    | Value-Test Case Fixed        |
| RXA-17.2   | Text                               |    | Presence-Test Case Proper    |
| RXA-17.3   | Name of Coding System              |    | 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        |