

## MSH : Message Header

| Location | Data Element                    | Data                        | Categorization               |
|----------|---------------------------------|-----------------------------|------------------------------|
| MSH-1    | Field Separator                 |                             | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                        | Value-Profile Fixed          |
| MSH-3    | Sending Application             |                             |                              |
| MSH-3.1  | Namespace ID                    | NISTEHRAPP                  | Presence-Configuration       |
| MSH-3.2  | Universal ID                    |                             | Indifferent                  |
| MSH-3.3  | Universal ID Type               |                             | Indifferent                  |
| MSH-4    | Sending Facility                |                             |                              |
| MSH-4.1  | Namespace ID                    | NISTEHRFAC                  | Presence-Configuration       |
| MSH-4.2  | Universal ID                    |                             | Indifferent                  |
| MSH-4.3  | Universal ID Type               |                             | Indifferent                  |
| MSH-5    | Receiving Application           |                             |                              |
| MSH-5.1  | Namespace ID                    | NISTIISAPP                  | Presence-Configuration       |
| MSH-5.2  | Universal ID                    |                             | Indifferent                  |
| MSH-5.3  | Universal ID Type               |                             | Indifferent                  |
| MSH-6    | Receiving Facility              |                             |                              |
| MSH-6.1  | Namespace ID                    | NISTIISFAC                  | Presence-Configuration       |
| MSH-6.2  | Universal ID                    |                             | Indifferent                  |
| MSH-6.3  | Universal ID Type               |                             | Indifferent                  |
| MSH-7    | Date/Time Of Message            |                             |                              |
| MSH-7.1  | Time                            | 20150625121047.839-0500     | Presence-System Generated    |
| MSH-9    | Message Type                    |                             |                              |
| MSH-9.1  | Message Code                    | VXU                         | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | V04                         | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | VXU_V04                     | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-IZ-AD-7.1_Send_V04_Z22 | Presence-System Generated    |
| MSH-11   | Processing ID                   |                             |                              |
| MSH-11.1 | Processing ID                   | P                           | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                             |                              |
| MSH-12.1 | Version ID                      | 2.5.1                       | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | ER                          | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type | AL                          | Value-Profile Fixed          |
| MSH-21   | Message Profile Identifier      |                             |                              |
| MSH-21.1 | Entity Identifier               | Z22                         | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | CDCPHINVS                   | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    |                             | Indifferent                  |
| MSH-21.4 | Universal ID Type               |                             | Indifferent                  |
| MSH-22   | Sending Responsible             |                             |                              |

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

### PID : Patient Identification

| Location  | Data Element                                       | Data       | Categorization               |
|-----------|--|------------|------------------------------|
| PID-1     | Set ID - PID                                       | 1          | Value-Profile Fixed          |
| PID-3     | Patient Identifier List                            |            |                              |
| PID-3.1   | ID Number  | 7120       | Presence-Content Indifferent |
| PID-3.4   | Assigning Authority                                |            |                              |
| PID-3.4.1 | Namespace ID                                       | NIST-MPI-1 | Presence-Content Indifferent |
| PID-3.4.2 | Universal ID                                       |            | Indifferent                  |
| PID-3.4.3 | Universal ID Type                                  |            | Indifferent                  |
| PID-3.5   | Identifier Type Code                               | MR         | Value-Test Case Fixed        |
| PID-5     | Patient Name                                       |            |                              |
| PID-5.1   | Family Name  |            |                              |
| PID-5.1.1 | Surname  | Barrett    | Presence-Content Indifferent |
| PID-5.2   | Given Name   | Helen      | Presence-Content Indifferent |
| PID-5.3   | Second and Further Given Names or Initials Thereof |            | Indifferent                  |
| PID-5.7   | Name Type Code                                     | L          | Value-Test Case Fixed        |
| PID-6     | Mother's Maiden Name                               |            |                              |
| PID-6.1   | Family Name  |            |                              |
| PID-6.1.1 | Surname  |            | Indifferent                  |
| PID-6.7   | Name Type Code                                     |            | Indifferent                  |

|             |                                  |                        |                              |
|-------------|----------------------------------|------------------------|------------------------------|
| PID-7       | Date/Time of Birth               |                        |                              |
| PID-7.1     | Time                             | 19500317               | Presence-Content Indifferent |
| PID-8       | Administrative Sex               | F                      | Value-Test Case Fixed        |
| PID-10      | Race                             |                        |                              |
| PID-10.1    | Identifier                       | 2106-3                 | Value-Test Case Fixed        |
| PID-10.2    | Text                             | White                  | Presence-Test Case Proper    |
| PID-10.3    | Name of Coding System            | CDCREC                 | Value-Profile Fixed          |
| PID-11      | Patient Address                  |                        |                              |
| PID-11.1    | Street Address                   |                        |                              |
| PID-11.1.1  | Street or Mailing Address        | 763 Main St            | Presence-Content Indifferent |
| PID-11.2    | Other Designation                |                        | Indifferent                  |
| PID-11.3    | City                             | Bozeman                | Presence-Content Indifferent |
| PID-11.4    | State or Province                | MT                     | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code               | 59715                  | Presence-Content Indifferent |
| PID-11.6    | Country                          | USA                    | Presence-Content Indifferent |
| PID-11.7    | Address Type                     | P                      | Value-Test Case Fixed        |
| PID-13[1]   | Phone Number - Home              |                        |                              |
| PID-13[1].2 | Telecommunication Use Code       | PRN                    | Value-Test Case Fixed        |
| PID-13[1].3 | Telecommunication Equipment Type | PH                     | Value-Test Case Fixed        |
| PID-13[1].4 | Email Address                    |                        | NonPresence                  |
| PID-13[1].6 | Area/City Code                   | 406                    | Presence-Content Indifferent |
| PID-13[1].7 | Local Number                     | 5554064                | Presence-Content Indifferent |
| PID-13[2]   | Phone Number - Home              |                        |                              |
| PID-13[2].2 | Telecommunication Use Code       | NET                    | Value-Test Case Fixed        |
| PID-13[2].3 | Telecommunication Equipment Type |                        | Indifferent                  |
| PID-13[2].4 | Email Address                    | Helen.Barrett@isp.com  | Presence-Content Indifferent |
| PID-13[2].6 | Area/City Code                   |                        | NonPresence                  |
| PID-13[2].7 | Local Number                     |                        | NonPresence                  |
| PID-22      | Ethnic Group                     |                        |                              |
| PID-22.1    | Identifier                       | 2186-5                 | Value-Test Case Fixed        |
| PID-22.2    | Text                             | Not Hispanic or Latino | Presence-Test Case Proper    |
|             | Name of Coding                   |                        |                              |

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

### PD1 : Patient Additional Demographic

| Location | Data Element                                | Data                         | Categorization               |
|----------|---|------------------------------|------------------------------|
| PD1-11   | Publicity Code                              |                              |                              |
| PD1-11.1 | Identifier                                  | 02                           | Value-Test Case Fixed        |
| PD1-11.2 | Text  | Reminder/recall - any method | Presence-Test Case Proper    |
| PD1-11.3 | Name of Coding System                       | HL70215                      | Value-Profile Fixed          |
| PD1-12   | Protection Indicator                        | Y                            | Value-Test Case Fixed        |
| PD1-13   | Protection Indicator Effective Date         | 20150625                     | Presence-Content Indifferent |
| PD1-16   | Immunization Registry Status                | A                            | Value-Test Case Fixed        |
| PD1-17   | Immunization Registry Status Effective Date | 19500317                     | Presence-Content Indifferent |
| PD1-18   | Publicity Code Effective Date               | 20150625                     | Presence-Content Indifferent |

### ORC : Common Order

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

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

### —RXA : Pharmacy/Treatment Administration—

| Location | Data Element                      | Data     | Categorization               |
|----------|-----------------------------------|----------|------------------------------|
| RXA-1    | Give Sub-ID Counter               | 0        | Value-Profile Fixed          |
| RXA-2    | Administration Sub-ID Counter     | 1        | Value-Profile Fixed          |
| RXA-3    | Date/Time Start of Administration |          |                              |
| RXA-3.1  | Time                              | 20150317 | Presence-Content Indifferent |
| RXA-5    | Administered Code                 |          |                              |

|            |  |                           |                           |
|------------|--|---------------------------|---------------------------|
| RXA-5.1    | Identifier   | 121                       | Value-Test Case Fixed     |
| RXA-5.2    | Text   | zoster                    | Presence-Test Case Proper |
| RXA-5.3    | Name of Coding System                              | CVX                       | Value-Profile Fixed       |
| RXA-6      | Administered Amount                                | 999                       | Value-Test Case Fixed     |
| RXA-7      | Administered Units                                 |                           |                           |
| RXA-7.1    | Identifier   |                           | NonPresence               |
| RXA-7.2    | Text   |                           | NonPresence               |
| RXA-7.3    | Name of Coding System                              |                           | NonPresence               |
| RXA-9      | Administration Notes                               |                           |                           |
| RXA-9.1    | Identifier   | 01                        | Value-Test Case Fixed     |
| RXA-9.2    | Text   | Historical Administration | Presence-Test Case Proper |
| RXA-9.3    | Name of Coding System                              | NIP001                    | Value-Profile Fixed       |
| RXA-10     | Administering Provider                             |                           |                           |
| RXA-10.1   | ID Number  |                           | Indifferent               |
| RXA-10.2   | Family Name  |                           |                           |
| RXA-10.2.1 | Surname  |                           | Indifferent               |
| RXA-10.3   | Given Name   |                           | Indifferent               |
| RXA-10.4   | Second and Further Given Names or Initials Thereof |                           | Indifferent               |
| RXA-10.9   | Assigning Authority                                |                           |                           |
| RXA-10.9.1 | Namespace ID                                       |                           | Indifferent               |
| RXA-10.9.2 | Universal ID                                       |                           | Indifferent               |
| RXA-10.9.3 | Universal ID Type                                  |                           | Indifferent               |
| RXA-10.10  | Name Type Code                                     |                           | Indifferent               |
| RXA-10.13  | Identifier Type Code                               |                           | Indifferent               |
| RXA-11     | Administered-at Location                           |                           |                           |
| RXA-11.4   | Facility   |                           |                           |
| RXA-11.4.1 | Namespace ID                                       |                           | Indifferent               |
| RXA-11.4.2 | Universal ID                                       |                           | Indifferent               |
| RXA-11.4.3 | Universal ID Type                                  |                           | Indifferent               |
| RXA-15     | Substance Lot Number                               |                           | Indifferent               |
| RXA-16     | Substance Expiration Date                          |                           |                           |
| RXA-16.1   | Time   |                           | Indifferent               |
| RXA-17     | Substance Manufacturer Name                        |                           |                           |
| RXA-17.1   | Identifier   |                           | Indifferent               |
| RXA-17.2   | Text   |                           | Indifferent               |
| RXA-17.3   | Name of Coding System                              |                           | Indifferent               |

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