

## MSH : Message Header

| Location | Data Element                     | Data                               | Categorization |
|----------|----------------------------------|------------------------------------|----------------|
| MSH-1    | Field Separator                  |                                    |                |
| MSH-2    | Encoding Characters              | ^~\&                               |                |
| MSH-3    | Sending Application              |                                    |                |
| MSH-3.1  | Namespace ID                     | NISTIISAPP                         |                |
| MSH-3.2  | Universal ID                     |                                    |                |
| MSH-3.3  | Universal ID Type                |                                    |                |
| MSH-4    | Sending Facility                 |                                    |                |
| MSH-4.1  | Namespace ID                     | NISTIISFAC                         |                |
| MSH-4.2  | Universal ID                     |                                    |                |
| MSH-4.3  | Universal ID Type                |                                    |                |
| MSH-5    | Receiving Application            |                                    |                |
| MSH-5.1  | Namespace ID                     | NISTEHRAPP                         |                |
| MSH-5.2  | Universal ID                     |                                    |                |
| MSH-5.3  | Universal ID Type                |                                    |                |
| MSH-6    | Receiving Facility               |                                    |                |
| MSH-6.1  | Namespace ID                     | NISTEHRFAC                         |                |
| MSH-6.2  | Universal ID                     |                                    |                |
| MSH-6.3  | Universal ID Type                |                                    |                |
| MSH-7    | Date/Time Of Message             |                                    |                |
| MSH-7.1  | Time                             | 20141031145233-0500                |                |
| MSH-9    | Message Type                     |                                    |                |
| MSH-9.1  | Message Code                     | RSP                                |                |
| MSH-9.2  | Trigger Event                    | K11                                |                |
| MSH-9.3  | Message Structure                | RSP_K11                            |                |
| MSH-10   | Message Control ID               | NIST-IZ-QR-4.2_Response_TM_K11_Z33 |                |
| MSH-11   | Processing ID                    |                                    |                |
| MSH-11.1 | Processing ID                    | P                                  |                |
| MSH-12   | Version ID                       |                                    |                |
| MSH-12.1 | Version ID                       | 2.5.1                              |                |
| MSH-15   | Accept Acknowledgment Type       | NE                                 |                |
| MSH-16   | Application Acknowledgment Type  | NE                                 |                |
| MSH-21   | Message Profile Identifier       |                                    |                |
| MSH-21.1 | Entity Identifier                | Z33                                |                |
| MSH-21.2 | Namespace ID                     | CDCPHINVS                          |                |
| MSH-21.3 | Universal ID                     |                                    |                |
| MSH-21.4 | Universal ID Type                |                                    |                |
| MSH-22   | Sending Responsible Organization |                                    |                |
| MSH-22.1 | Organization Name                | NISTIISFAC                         |                |

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

#### MSA : Message Acknowledgment

| Location | Data Element        | Data                         | Categorization |
|----------|---------------------|------------------------------|----------------|
| MSA-1    | Acknowledgment Code | AA                           |                |
| MSA-2    | Message Control ID  | NIST-IZ-QR-4.1_Query_Q11_Z44 |                |

#### QAK : Query Acknowledgment

| Location | Data Element          | Data                                   | Categorization |
|----------|-----------------------|--|----------------|
| QAK-1    | Query Tag             | IZ-4.1-2015                            |                |
| QAK-2    | Query Response Status | TM                                     |                |
| QAK-3    | Message Query Name    |  |                |
| QAK-3.1  | Identifier            | Z44                                    |                |
| QAK-3.2  | Text                  | Request Evaluated History and Forecast |                |
| QAK-3.3  | Name of Coding System | CDCPHINVS                              |                |

#### QPD : Query Parameter Definition

| Location | Data Element          | Data                                   | Categorization |
|----------|-----------------------|--|----------------|
| QPD-1    | Message Query Name    |  |                |
| QPD-1.1  | Identifier            | Z44                                    |                |
| QPD-1.2  | Text                  | Request Evaluated History and Forecast |                |
| QPD-1.3  | Name of Coding System | CDCPHINVS                              |                |
| QPD-2    | Query Tag             | IZ-4.1-2015                            |                |
|          |                       |  |                |

|           |  |                    |  |
|-----------|--|--------------------|--|
| QPD-3     | PatientList  |                    |  |
| QPD-3.1   | ID Number  | 412299             |  |
| QPD-3.4   | Assigning Authority                                |                    |  |
| QPD-3.4.1 | Namespace ID                                       | NIST-MPI-1         |  |
| QPD-3.4.2 | Universal ID                                       |                    |  |
| QPD-3.4.3 | Universal ID Type                                  |                    |  |
| QPD-3.5   | Identifier Type Code                               | MR                 |  |
| QPD-4     | PatientName  |                    |  |
| QPD-4.1   | Family Name  |                    |  |
| QPD-4.1.1 | Surname  | Smith              |  |
| QPD-4.2   | Given Name   | James              |  |
| QPD-4.3   | Second and Further Given Names or Initials Thereof |                    |  |
| QPD-4.7   | Name Type Code                                     | L                  |  |
| QPD-5     | PatientMotherMaidenName                            |                    |  |
| QPD-5.1   | Family Name  |                    |  |
| QPD-5.1.1 | Surname  |                    |  |
| QPD-5.7   | Name Type Code                                     |                    |  |
| QPD-6     | PatientDateOfBirth                                 |                    |  |
| QPD-6.1   | Time   | 20110905           |  |
| QPD-7     | Patient Sex  | M                  |  |
| QPD-8     | Patient Address                                    |                    |  |
| QPD-8.1   | Street Address                                     |                    |  |
| QPD-8.1.1 | Street or Mailing Address                          | 22 East Branch Way |  |
| QPD-8.2   | Other Designation                                  |                    |  |
| QPD-8.3   | City   | Livingston         |  |
| QPD-8.4   | State or Province                                  | MT                 |  |
| QPD-8.5   | Zip or Postal Code                                 | 59047              |  |
| QPD-8.6   | Country  |                    |  |
| QPD-8.7   | Address Type                                       | L                  |  |
| QPD-9     | Phone  |                    |  |
| QPD-9.2   | Telecommunication Use Code                         | PRN                |  |
| QPD-9.3   | Telecommunication Equipment Type                   | PH                 |  |
| QPD-9.4   | Email Address                                      |                    |  |
| QPD-9.6   | Area/City Code                                     | 406                |  |
| QPD-9.7   | Local Number                                       | 5556285            |  |
| QPD-10    | Multiple birth indicator                           |                    |  |
| QPD-11    | Birth order  |                    |  |