

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                       | NISTEHRAPP                   | Presence-Configuration       |
| MSH-3.2    | Universal ID                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-3.3    | Universal ID Type                  | ISO                          | Indifferent                  |
| MSH-4      | Sending Facility                   |                              |                              |
| MSH-4.1    | Namespace ID                       | NISTEHRFAC                   | Presence-Configuration       |
| MSH-4.2    | Universal ID                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-4.3    | Universal ID Type                  | ISO                          | Indifferent                  |
| MSH-5      | Receiving Application              |                              |                              |
| MSH-5.1    | Namespace ID                       | NISTIISAPP                   | Presence-Configuration       |
| MSH-5.2    | Universal ID                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-5.3    | Universal ID Type                  | ISO                          | Indifferent                  |
| MSH-6      | Receiving Facility                 |                              |                              |
| MSH-6.1    | Namespace ID                       | NISTIISFAC                   | Presence-Configuration       |
| MSH-6.2    | Universal ID                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-6.3    | Universal ID Type                  | ISO                          | Indifferent                  |
| MSH-7      | Date/Time Of Message               |                              |                              |
| MSH-7.1    | Time                               | 20150531145156-0500          | Presence-System Generated    |
| MSH-9      | Message Type                       |                              |                              |
| MSH-9.1    | Message Code                       | QBP                          | Value-Profile Fixed          |
| MSH-9.2    | Trigger Event                      | Q11                          | Value-Profile Fixed          |
| MSH-9.3    | Message Structure                  | QBP_Q11                      | Value-Profile Fixed          |
| MSH-10     | Message Control ID                 | NIST-IZ-QR-3.1_Query_Q11_Z44 | 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                  | Z44                          | 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                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-22.6.3 | Universal ID Type                  | ISO                          | 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                       | 2.16.840.1.113883.3.72.5.40. | Indifferent                  |
| MSH-23.6.3 | Universal ID Type                  | ISO                          | Indifferent                  |

|           |                         |          |                        |
|-----------|-------------------------|----------|------------------------|
| MSH-23.7  | Identifier Type Code    | XX       | Value-Test Case Fixed  |
| MSH-23.10 | Organization Identifier | 100-3322 | Presence-Configuration |

QPD[1]

| Location  | Data Element                                       | Data                                   | Categorization             |
|-----------|--|--|----------------------------|
| QPD-1     | Message Query Name                                 |  |                            |
| QPD-1.1   | Identifier   | Z44                                    | Value-Profile Fixed        |
| QPD-1.2   | Text   | Request Evaluated History and Forecast | Value-Profile Fixed        |
| QPD-1.3   | Name of Coding System                              | CDCPHINVS                              | Value-Profile Fixed        |
| QPD-2     | Query Tag  | IZ-3.1-2015                            | Presence-System Generated  |
| QPD-3     | PatientList  |  |                            |
| QPD-3.1   | ID Number  | 177993                                 | Value-Test Case Fixed      |
| QPD-3.4   | Assigning Authority                                |  |                            |
| QPD-3.4.1 | Namespace ID                                       | NIST-MPI-1                             | Value-Test Case Fixed      |
| QPD-3.4.2 | Universal ID                                       | 2.16.840.1.113883.3.72.5.40.5          | Indifferent                |
| QPD-3.4.3 | Universal ID Type                                  | ISO                                    | Indifferent                |
| QPD-3.5   | Identifier Type Code                               | MR                                     | Value-Test Case Fixed      |
| QPD-4     | PatientName  |  |                            |
| QPD-4.1   | Family Name  |  |                            |
| QPD-4.1.1 | Surname  | Bee                                    | Value-Test Case Fixed      |
| QPD-4.2   | Given Name   | Donna                                  | Value-Test Case Fixed      |
| QPD-4.3   | Second and Further Given Names or Initials Thereof | Victoria                               | Value-Test Case Fixed      |
| QPD-4.7   | Name Type Code                                     | L                                      | Value-Test Case Fixed      |
| QPD-5     | PatientMotherMaidenName                            |  |                            |
| QPD-5.1   | Family Name  |  |                            |
| QPD-5.1.1 | Surname  | Goluchio                               | Value-Test Case Fixed      |
| QPD-5.7   | Name Type Code                                     | M                                      | Value-Profile Fixed        |
| QPD-6     | PatientDateOfBirth                                 |  |                            |
| QPD-6.1   | Time   | 20120507                               | Value-Test Case Fixed      |
| QPD-7     | Patient Sex  | F                                      | Value-Test Case Fixed      |
| QPD-8     | Patient Address                                    |  |                            |
| QPD-8.1   | Street Address                                     |  |                            |
| QPD-8.1.1 | Street or Mailing Address                          | 737 Everygreen Road                    | Value-Test Case Fixed      |
| QPD-8.2   | Other Designation                                  | Suite 511                              | Indifferent                |
| QPD-8.3   | City   | Livingston                             | Value-Test Case Fixed      |
| QPD-8.4   | State or Province                                  | MT                                     | Value-Test Case Fixed      |
| QPD-8.5   | Zip or Postal Code                                 | 59047                                  | Value-Test Case Fixed      |
| QPD-8.6   | Country  | USA                                    | Value-Test Case Fixed      |
| QPD-8.7   | Address Type                                       | P                                      | Value-Test Case Fixed List |
| QPD-9     | Phone  |  |                            |
| QPD-9.2   | Telecommunication Use Code                         | PRN                                    | Value-Test Case Fixed      |
| QPD-9.3   | Telecommunication Equipment Type                   | PH                                     | Value-Test Case Fixed      |
| QPD-9.4   | Email Address                                      |  |                            |
| QPD-9.6   | Area/City Code                                     | 406                                    | Value-Test Case Fixed      |
| QPD-9.7   | Local Number                                       | 5553758                                | Value-Test Case Fixed      |
| QPD-10    | Multiple birth indicator                           | Y                                      | Value-Test Case Fixed      |
| QPD-11    | Birth order  | 3                                      | Value-Test Case Fixed      |

RCP[1]

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

|           |                          |         |                           |
|-----------|--------------------------|---------|---------------------------|
| RCP-1     | Query Priority           | I       | Value-Test Case Fixed     |
| RCP-2     | Quantity Limited Request |         |                           |
| RCP-2.1   | Quantity                 | 1       | Value-Profile Fixed       |
| RCP-2.2   | Units                    |         |                           |
| RCP-2.2.1 | Identifier               | RD      | Value-Profile Fixed       |
| RCP-2.2.2 | Text                     | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System    | HL70126 | Value-Profile 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                     | NISTEHRAPP                    | Presence-Configuration       |
| MSH-3.2    | Universal ID                     | 2.16.840.1.113883.3.72.5.40.1 | Indifferent                  |
| MSH-3.3    | Universal ID Type                | ISO                           | Indifferent                  |
| MSH-4      | Sending Facility                 |                               |                              |
| MSH-4.1    | Namespace ID                     | NISTEHRFAC                    | Presence-Configuration       |
| MSH-4.2    | Universal ID                     | 2.16.840.1.113883.3.72.5.40.2 | Indifferent                  |
| MSH-4.3    | Universal ID Type                | ISO                           | Indifferent                  |
| MSH-5      | Receiving Application            |                               |                              |
| MSH-5.1    | Namespace ID                     | NISTIISAPP                    | Presence-Configuration       |
| MSH-5.2    | Universal ID                     | 2.16.840.1.113883.3.72.5.40.3 | Indifferent                  |
| MSH-5.3    | Universal ID Type                | ISO                           | Indifferent                  |
| MSH-6      | Receiving Facility               |                               |                              |
| MSH-6.1    | Namespace ID                     | NISTIISFAC                    | Presence-Configuration       |
| MSH-6.2    | Universal ID                     | 2.16.840.1.113883.3.72.5.40.4 | Indifferent                  |
| MSH-6.3    | Universal ID Type                | ISO                           | Indifferent                  |
| MSH-7      | Date/Time Of Message             |                               |                              |
| MSH-7.1    | Time                             | 20150531145156-0500           | Presence-System Generated    |
| MSH-9      | Message Type                     |                               |                              |
| MSH-9.1    | Message Code                     | QBP                           | Value-Profile Fixed          |
| MSH-9.2    | Trigger Event                    | Q11                           | Value-Profile Fixed          |
| MSH-9.3    | Message Structure                | QBP_Q11                       | Value-Profile Fixed          |
| MSH-10     | Message Control ID               | NIST-IZ-QR-3.1_Query_Q11_Z44  | 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                | Z44                           | 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                     | 2.16.840.1.113883.3.72.5.40.9 | Indifferent                  |
| MSH-22.6.3 | Universal ID Type                | ISO                           | 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                  | NISTHSFAC                     | 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                       | 2.16.840.1.113883.3.72.5.40.9 | Indifferent            |
| MSH-23.6.3 | Universal ID Type                  | ISO                           | Indifferent            |
| MSH-23.7   | Identifier Type Code               | XX                            | Value-Test Case Fixed  |
| MSH-23.10  | Organization Identifier            | 100-3322                      | Presence-Configuration |

| Location  | Data Element                                       | Data                                   | Categorization             |
|-----------|--|--|----------------------------|
| QPD-1     | Message Query Name                                 |  |                            |
| QPD-1.1   | Identifier   | Z44                                    | Value-Profile Fixed        |
| QPD-1.2   | Text   | Request Evaluated History and Forecast | Value-Profile Fixed        |
| QPD-1.3   | Name of Coding System                              | CDCPHINVS                              | Value-Profile Fixed        |
| QPD-2     | Query Tag  | IZ-3.1-2015                            | Presence-System Generated  |
| QPD-3     | PatientList  |  |                            |
| QPD-3.1   | ID Number  | 177993                                 | Value-Test Case Fixed      |
| QPD-3.4   | Assigning Authority                                |  |                            |
| QPD-3.4.1 | Namespace ID                                       | NIST-MPI-1                             | Value-Test Case Fixed      |
| QPD-3.4.2 | Universal ID                                       | 2.16.840.1.113883.3.72.5.40.5          | Indifferent                |
| QPD-3.4.3 | Universal ID Type                                  | ISO                                    | Indifferent                |
| QPD-3.5   | Identifier Type Code                               | MR                                     | Value-Test Case Fixed      |
| QPD-4     | PatientName  |  |                            |
| QPD-4.1   | Family Name  |  |                            |
| QPD-4.1.1 | Surname  | Bee                                    | Value-Test Case Fixed      |
| QPD-4.2   | Given Name   | Donna                                  | Value-Test Case Fixed      |
| QPD-4.3   | Second and Further Given Names or Initials Thereof | Victoria                               | Value-Test Case Fixed      |
| QPD-4.7   | Name Type Code                                     | L                                      | Value-Test Case Fixed      |
| QPD-5     | PatientMotherMaidenName                            |  |                            |
| QPD-5.1   | Family Name  |  |                            |
| QPD-5.1.1 | Surname  | Goluchio                               | Value-Test Case Fixed      |
| QPD-5.7   | Name Type Code                                     | M                                      | Value-Profile Fixed        |
| QPD-6     | PatientDateOfBirth                                 |  |                            |
| QPD-6.1   | Time   | 20120507                               | Value-Test Case Fixed      |
| QPD-7     | Patient Sex  | F                                      | Value-Test Case Fixed      |
| QPD-8     | Patient Address                                    |  |                            |
| QPD-8.1   | Street Address                                     |  |                            |
| QPD-8.1.1 | Street or Mailing Address                          | 737 Everygreen Road                    | Value-Test Case Fixed      |
| QPD-8.2   | Other Designation                                  | Suite 511                              | Indifferent                |
| QPD-8.3   | City   | Livingston                             | Value-Test Case Fixed      |
| QPD-8.4   | State or Province                                  | MT                                     | Value-Test Case Fixed      |
| QPD-8.5   | Zip or Postal Code                                 | 59047                                  | Value-Test Case Fixed      |
| QPD-8.6   | Country  | USA                                    | Value-Test Case Fixed      |
| QPD-8.7   | Address Type                                       | P                                      | Value-Test Case Fixed List |
| QPD-9     | Phone  |  |                            |
| QPD-9.2   | Telecommunication Use Code                         | PRN                                    | Value-Test Case Fixed      |
| QPD-9.3   | Telecommunication Equipment Type                   | PH                                     | Value-Test Case Fixed      |
| QPD-9.4   | Email Address                                      |  |                            |
| QPD-9.6   | Area/City Code                                     | 406                                    | Value-Test Case Fixed      |
| QPD-9.7   | Local Number                                       | 5553758                                | Value-Test Case Fixed      |
| QPD-10    | Multiple birth indicator                           | Y                                      | Value-Test Case Fixed      |

|        |             |   |                       |
|--------|-------------|---|-----------------------|
| QPD-11 | Birth order | 3 | Value-Test Case Fixed |
|--------|-------------|---|-----------------------|

| Location  | Data Element             | Data    | Categorization            |
|-----------|--------------------------|---------|---------------------------|
| RCP-1     | Query Priority           | I       | Value-Test Case Fixed     |
| RCP-2     | Quantity Limited Request |         |                           |
| RCP-2.1   | Quantity                 | 1       | Value-Profile Fixed       |
| RCP-2.2   | Units                    |         |                           |
| RCP-2.2.1 | Identifier               | RD      | Value-Profile Fixed       |
| RCP-2.2.2 | Text                     | Records | Presence-Test Case Proper |
| RCP-2.2.3 | Name of Coding System    | HL70126 | Value-Profile Fixed       |