

# Technical HL7 Conformance Profile

# Enterprise Imaging

# WS PDQ Inbound K22

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Message Profile

## Conformance parameters

### Message Profile

- HL7 Version: 2.5
- Profile Type: HL7

### Encoding Method

ER7

## Interaction 1

### Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: AL
- Acknowledgement Mode: Deferred

### Static Definition

- Event Description: RSP - Find candidates response
- Message Type: RSP
- Trigger Event: K22
- Message Structure: RSP\_K22

### Message structure

MSH MSA QAK QPD PID

### MSH - Message Header

- Usage: Required
- Cardinality:1..1

| Seq. | Name                  | Opt. | Card. | Type | Table   | Contents                 |
|------|-----------------------|------|-------|------|---------|--------------------------|
| 1    | Field Separator       | R    | 1..1  | ST   |         | e.g.                     |
| 2    | Encoding Characters   | R    | 1..1  | ST   |         | e.g. ^~\&                |
| 3    | Sending Application   | R    | 1..1  | HD   | HL70361 |                          |
| 3.1  | namespace ID          | R    | 1..1  | IS   | HL70300 | e.g. MESA_PD_SUPPLIER    |
| 3.2  | universal ID          | C    | 0..   | ST   |         |                          |
| 3.3  | universal ID type     | C    | 0..   | ID   | HL70301 |                          |
| 4    | Sending Facility      | R    | 1..1  | HD   | HL70362 |                          |
| 4.1  | namespace ID          | R    | 1..1  | IS   | HL70300 | e.g. XYZ_HOSPITAL        |
| 4.2  | universal ID          | C    | 0..   | ST   |         |                          |
| 4.3  | universal ID type     | C    | 0..   | ID   | HL70301 |                          |
| 5    | Receiving Application | R    | 1..1  | HD   | HL70361 |                          |
| 5.1  | namespace ID          | R    | 1..1  | IS   | HL70300 | e.g. XERO                |
| 5.2  | universal ID          | C    | 0..   | ST   |         |                          |
| 5.3  | universal ID type     | C    | 0..   | ID   | HL70301 |                          |
| 6    | Receiving Facility    | R    | 1..1  | HD   | HL70362 |                          |
| 6.1  | namespace ID          | R    | 1..1  | IS   | HL70300 | e.g. AGFA                |
| 6.2  | universal ID          | C    | 0..   | ST   |         |                          |
| 6.3  | universal ID type     | C    | 0..   | ID   | HL70301 |                          |
| 7    | Date/Time Of Message  | R    | 1..1  | TS   |         |                          |
| 7.1  | time                  | R    | 1..1  | DTM  |         | e.g. 20150126134831-0500 |
| 7.2  | degree of precision   | B    | ..    | ST   | HL70529 | e.g. D                   |
| 8    | Security              | O    | 0..1  | ST   |         |                          |

| Seq.   | Name                            | Opt. | Card. | Type | Table   | Contents                 |
|--------|---------------------------------|------|-------|------|---------|--------------------------|
| 9      | Message Type                    | R    | 1..1  | MSG  |         |                          |
| 9.1    | message code                    | R    | 1..1  | ID   | HL70076 | e.g. RSP                 |
| 9.2    | trigger event                   | R    | 1..1  | ID   | HL70003 | e.g. K22                 |
| 9.3    | message structure               | R    | 1..1  | ID   | HL70354 |                          |
| 10     | Message Control ID              | R    | 1..1  | ST   |         | e.g. af2293314b2792dd701 |
| 11     | Processing ID                   | R    | 1..1  | PT   |         |                          |
| 11.1   | processing ID                   | R    | 1..1  | ID   | HL70103 | e.g. P                   |
| 11.2   | processing mode                 | O    | 0..   | ID   | HL70207 |                          |
| 12     | Version ID                      | R    | 1..1  | VID  |         |                          |
| 12.1   | version ID                      | R    | 1..1  | ID   | HL70104 | e.g. 2.5                 |
| 12.2   | internationalization code       | O    | 0..   | CE   | HL70399 |                          |
| 12.2.1 | identifier                      | O    | 0..   | ST   |         |                          |
| 12.2.2 | text                            | O    | 0..   | ST   |         |                          |
| 12.2.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                          |
| 12.2.4 | alternate identifier            | O    | 0..   | ST   |         |                          |
| 12.2.5 | alternate text                  | O    | 0..   | ST   |         |                          |
| 12.2.6 | name of alternate coding system | O    | 0..   | ID   | HL70396 |                          |
| 12.3   | international version ID        | O    | 0..   | CE   |         |                          |
| 12.3.1 | identifier                      | O    | 0..   | ST   |         |                          |
| 12.3.2 | text                            | O    | 0..   | ST   |         |                          |
| 12.3.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                          |
| 12.3.4 | alternate identifier            | O    | 0..   | ST   |         |                          |
| 12.3.5 | alternate text                  | O    | 0..   | ST   |         |                          |
| 12.3.6 | name of alternate coding system | O    | 0..   | ID   | HL70396 |                          |
| 13     | Sequence Number                 | O    | 0..1  | NM   |         |                          |
| 14     | Continuation Pointer            | O    | 0..1  | ST   |         |                          |
| 15     | Accept Acknowledgment Type      | O    | 0..1  | ID   | HL70155 |                          |
| 16     | Application Acknowledgment Type | O    | 0..1  | ID   | HL70155 |                          |
| 17     | Country Code                    | O    | 0..1  | ID   | HL70399 |                          |
| 18     | Character Set                   | O    | 0..*  | ID   | HL70211 |                          |
| 19     | Principal Language Of Message   | O    | 0..1  | CE   |         |                          |
| 19.1   | identifier                      | O    | 0..   | ST   |         |                          |
| 19.2   | text                            | O    | 0..   | ST   |         |                          |
| 19.3   | name of coding system           | O    | 0..   | ID   | HL70396 |                          |
| 19.4   | alternate identifier            | O    | 0..   | ST   |         |                          |
| 19.5   | alternate text                  | O    | 0..   | ST   |         |                          |
| 19.6   | name of alternate coding system | O    | 0..   | ID   | HL70396 |                          |

| Seq.               | Name                                    | Opt. | Card. | Type | Table   | Contents |
|--------------------|-----------------------------------------|------|-------|------|---------|----------|
| <a href="#">20</a> | Alternate Character Set Handling Scheme | O    | 0..1  | ID   | HL70356 |          |
| <a href="#">21</a> | Message Profile Identifier              | O    | 0..*  | EI   |         |          |
| 21.1               | entity identifier                       | O    | 0..   | ST   |         |          |
| 21.2               | namespace ID                            | O    | 0..   | IS   | HL70363 |          |
| 21.3               | universal ID                            | C    | 0..   | ST   |         |          |
| 21.4               | universal ID type                       | C    | 0..   | ID   | HL70301 |          |

## 1. Field Separator

## 2. Encoding Characters

## 3. Sending Application

### 3.2. universal ID

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### 3.3. universal ID type

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## 4. Sending Facility

### 4.2. universal ID

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three

components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **4.3. universal ID type**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **5. Receiving Application**

### **5.2. universal ID**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **5.3. universal ID type**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **6. Receiving Facility**

### **6.2. universal ID**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three

taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **6.3. universal ID type**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **7. Date/Time Of Message**

### **7.2. degree of precision**

Retained for backward compatibility only

## **8. Security**

## **9. Message Type**

## **10. Message Control ID**

## **11. Processing ID**

## **12. Version ID**

## **13. Sequence Number**

## **14. Continuation Pointer**

## **15. Accept Acknowledgment Type**

## **16. Application Acknowledgment Type**

## **17. Country Code**

## **18. Character Set**

## **19. Principal Language Of Message**

## **20. Alternate Character Set Handling Scheme**

## **21. Message Profile Identifier**

## MSA - Message Acknowledgment

- Usage: Required
- Cardinality:1..1

| Seq. | Name                            | Opt. | Card. | Type | Table   | Contents                                       |
|------|---------------------------------|------|-------|------|---------|------------------------------------------------|
| 1    | Acknowledgment Code             | R    | 1..1  | ID   | HL70008 | e.g. AA                                        |
| 2    | Message Control ID              | R    | 1..1  | ST   |         | e.g. AGFA-ea61cee6-c577-48f9-995d-33d4ecf2d038 |
| 3    | Text Message                    | B    | 0..*  | ST   |         |                                                |
| 4    | Expected Sequence Number        | O    | 0..1  | NM   |         |                                                |
| 6    | Error Condition                 | B    | 0..*  | CE   | HL70357 |                                                |
| 6.1  | identifier                      | O    | 0..   | ST   |         |                                                |
| 6.2  | text                            | O    | 0..   | ST   |         |                                                |
| 6.3  | name of coding system           | O    | 0..   | ID   | HL70396 |                                                |
| 6.4  | alternate identifier            | O    | 0..   | ST   |         |                                                |
| 6.5  | alternate text                  | O    | 0..   | ST   |         |                                                |
| 6.6  | name of alternate coding system | O    | 0..   | ID   | HL70396 |                                                |

### 1. Acknowledgment Code

### 2. Message Control ID

### 3. Text Message

### 4. Expected Sequence Number

### 6. Error Condition

## QAK - Query Acknowledgment

- Usage: Required
- Cardinality:1..1

| Seq. | Name                            | Opt. | Card. | Type | Table   | Contents                                        |
|------|---------------------------------|------|-------|------|---------|-------------------------------------------------|
| 1    | Query Tag                       | R    | 1..1  | ST   |         | e.g. QUERY-2222f594-aeee-4821-a5c2-ebdd95c2af07 |
| 2    | Query Response Status           | R    | 1..1  | ID   | HL70208 | e.g. OK                                         |
| 3    | Message Query Name              | O    | 0..1  | CE   | HL70471 |                                                 |
| 3.1  | identifier                      | O    | 0..   | ST   |         |                                                 |
| 3.2  | text                            | O    | 0..   | ST   |         |                                                 |
| 3.3  | name of coding system           | O    | 0..   | ID   | HL70396 |                                                 |
| 3.4  | alternate identifier            | O    | 0..   | ST   |         |                                                 |
| 3.5  | alternate text                  | O    | 0..   | ST   |         |                                                 |
| 3.6  | name of alternate coding system | O    | 0..   | ID   | HL70396 |                                                 |
| 4    | Hit Count                       | R    | 1..1  | NM   |         | e.g. 1                                          |
| 5    | This payload                    | R    | 1..1  | NM   |         | e.g. 1                                          |

| Seq. | Name           | Opt. | Card. | Type | Table | Contents |
|------|----------------|------|-------|------|-------|----------|
| 6    | Hits remaining | R    | 1..1  | NM   |       | e.g. 0   |

### 1. Query Tag

### 2. Query Response Status

### 3. Message Query Name

### 4. Hit Count

### 5. This payload

### 6. Hits remaining

## QPD - Query Parameter Definition

- Usage: Required

- Cardinality:1..1

| Seq. | Name                                   | Opt. | Card. | Type   | Table   | Contents                                        |
|------|----------------------------------------|------|-------|--------|---------|-------------------------------------------------|
| 1    | Message Query Name                     | R    | 1..1  | CE     | HL70471 |                                                 |
| 1.1  | identifier                             | R    | 1..1  | ST     |         | e.g. IHE PDQ Query                              |
| 1.2  | text                                   | O    | 0..   | ST     |         |                                                 |
| 1.3  | name of coding system                  | O    | 0..   | ID     | HL70396 |                                                 |
| 1.4  | alternate identifier                   | O    | 0..   | ST     |         |                                                 |
| 1.5  | alternate text                         | O    | 0..   | ST     |         |                                                 |
| 1.6  | name of alternate coding system        | O    | 0..   | ID     | HL70396 |                                                 |
| 2    | Query Tag                              | R    | 1..1  | ST     |         | e.g. QUERY-2222f594-aeee-4821-a5c2-ebdd95c2af07 |
| 3    | User Parameters (in successive fields) | O    | 0..2  | varies |         |                                                 |
| 4    | User Parameters (in successive fields) | O    | 0..1  | varies |         |                                                 |
| 5    | User Parameters (in successive fields) | O    | 0..1  | varies |         |                                                 |
| 6    | User Parameters (in successive fields) | O    | 0..1  | varies |         |                                                 |

### 1. Message Query Name

### 2. Query Tag

### 3. User Parameters (in successive fields)

### 4. User Parameters (in successive fields)

### 5. User Parameters (in successive fields)

### 6. User Parameters (in successive fields)

## PID - Patient Identification

- Usage: Required
- Cardinality:1..1

| Seq.   | Name                               | Opt. | Card. | Type | Table   | Contents |
|--------|------------------------------------|------|-------|------|---------|----------|
| 1      | Set ID - PID                       | R    | 1..1  | SI   |         | e.g. 1   |
| 2      | Patient ID                         | B    | 0..*  | CX   |         |          |
| 2.1    | ID number                          | R    | 1..1  | ST   |         |          |
| 2.2    | check digit                        | O    | 0..   | ST   |         |          |
| 2.3    | check digit scheme                 | O    | 0..   | ID   | HL70061 |          |
| 2.4    | assigning authority                | B    | ..    | HD   | HL70363 |          |
| 2.4.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |          |
| 2.4.2  | universal ID                       | C    | 0..   | ST   |         |          |
| 2.4.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |          |
| 2.5    | identifier type code               | O    | 0..   | ID   | HL70203 |          |
| 2.6    | assigning facility                 | O    | 0..   | HD   |         |          |
| 2.6.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |          |
| 2.6.2  | universal ID                       | C    | 0..   | ST   |         |          |
| 2.6.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |          |
| 2.7    | effective date                     | O    | 0..   | DT   |         |          |
| 2.8    | expiration date                    | O    | 0..   | DT   |         |          |
| 2.9    | assigning jurisdiction             | O    | 0..   | CWE  |         |          |
| 2.9.1  | identifier                         | O    | 0..   | ST   |         |          |
| 2.9.2  | text                               | O    | 0..   | ST   |         |          |
| 2.9.3  | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 2.9.4  | alternate identifier               | O    | 0..   | ST   |         |          |
| 2.9.5  | alternate text                     | O    | 0..   | ST   |         |          |
| 2.9.6  | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 2.9.7  | coding system version ID           | O    | 0..   | ST   |         |          |
| 2.9.8  | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 2.9.9  | original text                      | O    | 0..   | ST   |         |          |
| 2.10   | assigning agency or department     | O    | 0..   | CWE  |         |          |
| 2.10.1 | identifier                         | O    | 0..   | ST   |         |          |
| 2.10.2 | text                               | O    | 0..   | ST   |         |          |
| 2.10.3 | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 2.10.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 2.10.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 2.10.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 2.10.7 | coding system version ID           | O    | 0..   | ST   |         |          |

| Seq.   | Name                               | Opt. | Card. | Type | Table   | Contents                               |
|--------|------------------------------------|------|-------|------|---------|----------------------------------------|
| 2.10.8 | alternate coding system version ID | O    | 0..   | ST   |         |                                        |
| 2.10.9 | original text                      | O    | 0..   | ST   |         |                                        |
| 3      | Patient Identifier List            | R    | 1..*  | CX   |         |                                        |
| 3.1    | ID number                          | R    | 1..1  | ST   |         | e.g. 0001                              |
| 3.2    | check digit                        | O    | 0..   | ST   |         |                                        |
| 3.3    | check digit scheme                 | O    | 0..   | ID   | HL70061 |                                        |
| 3.4    | assigning authority                | B    | ..    | HD   | HL70363 |                                        |
| 3.4.1  | namespace ID                       | O    | 0..   | IS   | HL70300 | e.g. IHELOCAL                          |
| 3.4.2  | universal ID                       | C    | 0..   | ST   |         | e.g.<br>1.3.6.1.4.1.21367.2010.1.2.310 |
| 3.4.3  | universal ID type                  | C    | 0..   | ID   | HL70301 | e.g. ISO                               |
| 3.5    | identifier type code               | R    | 1..1  | ID   | HL70203 | e.g. PI                                |
| 3.9    | assigning jurisdiction             | O    | 0..   | CWE  |         |                                        |
| 3.9.1  | identifier                         | O    | 0..   | ST   |         |                                        |
| 3.9.2  | text                               | O    | 0..   | ST   |         |                                        |
| 3.9.3  | name of coding system              | O    | 0..   | ID   | HL70396 |                                        |
| 3.9.4  | alternate identifier               | O    | 0..   | ST   |         |                                        |
| 3.9.5  | alternate text                     | O    | 0..   | ST   |         |                                        |
| 3.9.6  | name of alternate coding system    | O    | 0..   | ID   | HL70396 |                                        |
| 3.9.7  | coding system version ID           | O    | 0..   | ST   |         |                                        |
| 3.9.8  | alternate coding system version ID | O    | 0..   | ST   |         |                                        |
| 3.9.9  | original text                      | O    | 0..   | ST   |         |                                        |
| 3.10   | assigning agency or department     | O    | 0..   | CWE  |         |                                        |
| 3.10.1 | identifier                         | O    | 0..   | ST   |         |                                        |
| 3.10.2 | text                               | O    | 0..   | ST   |         |                                        |
| 3.10.3 | name of coding system              | O    | 0..   | ID   | HL70396 |                                        |
| 3.10.4 | alternate identifier               | O    | 0..   | ST   |         |                                        |
| 3.10.5 | alternate text                     | O    | 0..   | ST   |         |                                        |
| 3.10.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |                                        |
| 3.10.7 | coding system version ID           | O    | 0..   | ST   |         |                                        |
| 3.10.8 | alternate coding system version ID | O    | 0..   | ST   |         |                                        |
| 3.10.9 | original text                      | O    | 0..   | ST   |         |                                        |
| 4      | Patient Identifier List            | R    | 1..1  | CX   |         |                                        |
| 4.1    | ID number                          | R    | 1..1  | ST   |         | e.g. 1001                              |
| 4.2    | check digit                        | O    | 0..   | ST   |         |                                        |
| 4.3    | check digit scheme                 | O    | 0..   | ID   | HL70061 |                                        |
| 4.4    | assigning authority                | B    | ..    | HD   | HL70363 |                                        |
| 4.4.1  | namespace ID                       | O    | 0..   | IS   | HL70300 | e.g. IHENA                             |

| Seq.   | Name                               | Opt. | Card. | Type | Table   | Contents                             |
|--------|------------------------------------|------|-------|------|---------|--------------------------------------|
| 4.4.2  | universal ID                       | C    | 0..   | ST   |         | e.g. 1.3.6.1.4.1.21367.2010.1.2.3000 |
| 4.4.3  | universal ID type                  | C    | 0..   | ID   | HL70301 | e.g. ISO                             |
| 4.5    | identifier type code               | R    | 1..1  | ID   | HL70203 | e.g. PI                              |
| 4.9    | assigning jurisdiction             | O    | 0..   | CWE  |         |                                      |
| 4.9.1  | identifier                         | O    | 0..   | ST   |         |                                      |
| 4.9.2  | text                               | O    | 0..   | ST   |         |                                      |
| 4.9.3  | name of coding system              | O    | 0..   | ID   | HL70396 |                                      |
| 4.9.4  | alternate identifier               | O    | 0..   | ST   |         |                                      |
| 4.9.5  | alternate text                     | O    | 0..   | ST   |         |                                      |
| 4.9.6  | name of alternate coding system    | O    | 0..   | ID   | HL70396 |                                      |
| 4.9.7  | coding system version ID           | O    | 0..   | ST   |         |                                      |
| 4.9.8  | alternate coding system version ID | O    | 0..   | ST   |         |                                      |
| 4.9.9  | original text                      | O    | 0..   | ST   |         |                                      |
| 4.10   | assigning agency or department     | O    | 0..   | CWE  |         |                                      |
| 4.10.1 | identifier                         | O    | 0..   | ST   |         |                                      |
| 4.10.2 | text                               | O    | 0..   | ST   |         |                                      |
| 4.10.3 | name of coding system              | O    | 0..   | ID   | HL70396 |                                      |
| 4.10.4 | alternate identifier               | O    | 0..   | ST   |         |                                      |
| 4.10.5 | alternate text                     | O    | 0..   | ST   |         |                                      |
| 4.10.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |                                      |
| 4.10.7 | coding system version ID           | O    | 0..   | ST   |         |                                      |
| 4.10.8 | alternate coding system version ID | O    | 0..   | ST   |         |                                      |
| 4.10.9 | original text                      | O    | 0..   | ST   |         |                                      |
| 5      | Alternate Patient ID - PID         | B    | 0..*  | CX   |         |                                      |
| 5.1    | ID number                          | R    | 1..1  | ST   |         |                                      |
| 5.2    | check digit                        | O    | 0..   | ST   |         |                                      |
| 5.3    | check digit scheme                 | O    | 0..   | ID   | HL70061 |                                      |
| 5.4    | assigning authority                | B    | ..    | HD   | HL70363 |                                      |
| 5.4.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |                                      |
| 5.4.2  | universal ID                       | C    | 0..   | ST   |         |                                      |
| 5.4.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |                                      |
| 5.5    | identifier type code               | O    | 0..   | ID   | HL70203 |                                      |
| 5.6    | assigning facility                 | O    | 0..   | HD   |         |                                      |
| 5.6.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |                                      |
| 5.6.2  | universal ID                       | C    | 0..   | ST   |         |                                      |
| 5.6.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |                                      |
| 5.7    | effective date                     | O    | 0..   | DT   |         |                                      |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents      |
|--------|----------------------------------------------------|------|-------|------|---------|---------------|
| 5.8    | expiration date                                    | O    | 0..   | DT   |         |               |
| 5.9    | assigning jurisdiction                             | O    | 0..   | CWE  |         |               |
| 5.9.1  | identifier                                         | O    | 0..   | ST   |         |               |
| 5.9.2  | text                                               | O    | 0..   | ST   |         |               |
| 5.9.3  | name of coding system                              | O    | 0..   | ID   | HL70396 |               |
| 5.9.4  | alternate identifier                               | O    | 0..   | ST   |         |               |
| 5.9.5  | alternate text                                     | O    | 0..   | ST   |         |               |
| 5.9.6  | name of alternate coding system                    | O    | 0..   | ID   | HL70396 |               |
| 5.9.7  | coding system version ID                           | O    | 0..   | ST   |         |               |
| 5.9.8  | alternate coding system version ID                 | O    | 0..   | ST   |         |               |
| 5.9.9  | original text                                      | O    | 0..   | ST   |         |               |
| 5.10   | assigning agency or department                     | O    | 0..   | CWE  |         |               |
| 5.10.1 | identifier                                         | O    | 0..   | ST   |         |               |
| 5.10.2 | text                                               | O    | 0..   | ST   |         |               |
| 5.10.3 | name of coding system                              | O    | 0..   | ID   | HL70396 |               |
| 5.10.4 | alternate identifier                               | O    | 0..   | ST   |         |               |
| 5.10.5 | alternate text                                     | O    | 0..   | ST   |         |               |
| 5.10.6 | name of alternate coding system                    | O    | 0..   | ID   | HL70396 |               |
| 5.10.7 | coding system version ID                           | O    | 0..   | ST   |         |               |
| 5.10.8 | alternate coding system version ID                 | O    | 0..   | ST   |         |               |
| 5.10.9 | original text                                      | O    | 0..   | ST   |         |               |
| 6      | Patient Name                                       | R    | 1..*  | XPN  |         |               |
| 6.1    | family name                                        | R    | 1..1  | FN   |         |               |
| 6.1.1  | surname                                            | R    | 1..1  | ST   |         | e.g. ANDERSON |
| 6.1.2  | own surname prefix                                 | O    | 0..   | ST   |         |               |
| 6.1.3  | own surname                                        | O    | 0..   | ST   |         |               |
| 6.1.4  | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |               |
| 6.1.5  | surname from partner/spouse                        | O    | 0..   | ST   |         |               |
| 6.2    | given name                                         | R    | 1..1  | ST   |         | e.g. LAURA    |
| 6.3    | second and further given names or initials thereof | O    | 0..   | ST   |         |               |
| 6.4    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |               |
| 6.5    | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |               |
| 6.6    | degree (e.g., MD)                                  | B    | ..    | IS   | HL70360 |               |
| 6.7    | name type code                                     | O    | 0..   | ID   | HL70200 |               |
| 6.8    | name representation code                           | O    | 0..   | ID   | HL70465 |               |
| 6.9    | name context                                       | O    | 0..   | CE   | HL70448 |               |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents                      |
|--------|----------------------------------------------------|------|-------|------|---------|-------------------------------|
| 6.9.1  | identifier                                         | O    | 0..   | ST   |         |                               |
| 6.9.2  | text                                               | O    | 0..   | ST   |         |                               |
| 6.9.3  | name of coding system                              | O    | 0..   | ID   | HL70396 |                               |
| 6.9.4  | alternate identifier                               | O    | 0..   | ST   |         |                               |
| 6.9.5  | alternate text                                     | O    | 0..   | ST   |         |                               |
| 6.9.6  | name of alternate coding system                    | O    | 0..   | ID   | HL70396 |                               |
| 6.10   | name validity range                                | B    | ..    | DR   |         |                               |
| 6.10.1 | range start date/time                              | O    | 0..   | TS   |         |                               |
| 6.10.2 | range end date/time                                | O    | 0..   | TS   |         |                               |
| 6.11   | name assembly order                                | O    | 0..   | ID   | HL70444 |                               |
| 6.12   | effective date                                     | O    | 0..   | TS   |         |                               |
| 6.12.1 | time                                               | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 6.12.2 | degree of precision                                | B    | ..    | ST   | HL70529 | e.g. D                        |
| 6.13   | expiration date                                    | O    | 0..   | TS   |         |                               |
| 6.13.1 | time                                               | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 6.13.2 | degree of precision                                | B    | ..    | ST   | HL70529 | e.g. D                        |
| 6.14   | professional suffix                                | O    | 0..   | ST   |         |                               |
| 7      | Mother_s Maiden Name                               | O    | 0..*  | XPN  |         |                               |
| 7.1    | family name                                        | O    | 0..   | FN   |         |                               |
| 7.1.1  | surname                                            | R    | 1..1  | ST   |         |                               |
| 7.1.2  | own surname prefix                                 | O    | 0..   | ST   |         |                               |
| 7.1.3  | own surname                                        | O    | 0..   | ST   |         |                               |
| 7.1.4  | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |                               |
| 7.1.5  | surname from partner/spouse                        | O    | 0..   | ST   |         |                               |
| 7.2    | given name                                         | O    | 0..   | ST   |         |                               |
| 7.3    | second and further given names or initials thereof | O    | 0..   | ST   |         |                               |
| 7.4    | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |                               |
| 7.5    | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |                               |
| 7.6    | degree (e.g., MD)                                  | B    | ..    | IS   | HL70360 |                               |
| 7.7    | name type code                                     | O    | 0..   | ID   | HL70200 |                               |
| 7.8    | name representation code                           | O    | 0..   | ID   | HL70465 |                               |
| 7.9    | name context                                       | O    | 0..   | CE   | HL70448 |                               |
| 7.9.1  | identifier                                         | O    | 0..   | ST   |         |                               |
| 7.9.2  | text                                               | O    | 0..   | ST   |         |                               |
| 7.9.3  | name of coding system                              | O    | 0..   | ID   | HL70396 |                               |
| 7.9.4  | alternate identifier                               | O    | 0..   | ST   |         |                               |

| Seq.   | Name                                               | Opt. | Card. | Type | Table   | Contents                      |
|--------|----------------------------------------------------|------|-------|------|---------|-------------------------------|
| 7.9.5  | alternate text                                     | O    | 0..   | ST   |         |                               |
| 7.9.6  | name of alternate coding system                    | O    | 0..   | ID   | HL70396 |                               |
| 7.10   | name validity range                                | B    | ..    | DR   |         |                               |
| 7.10.1 | range start date/time                              | O    | 0..   | TS   |         |                               |
| 7.10.2 | range end date/time                                | O    | 0..   | TS   |         |                               |
| 7.11   | name assembly order                                | O    | 0..   | ID   | HL70444 |                               |
| 7.12   | effective date                                     | O    | 0..   | TS   |         |                               |
| 7.12.1 | time                                               | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 7.12.2 | degree of precision                                | B    | ..    | ST   | HL70529 | e.g. D                        |
| 7.13   | expiration date                                    | O    | 0..   | TS   |         |                               |
| 7.13.1 | time                                               | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 7.13.2 | degree of precision                                | B    | ..    | ST   | HL70529 | e.g. D                        |
| 7.14   | professional suffix                                | O    | 0..   | ST   |         |                               |
| 8      | Date/Time of Birth                                 | R    | 1..1  | TS   |         |                               |
| 8.1    | time                                               | R    | 1..1  | DTM  |         | e.g. 19500101                 |
| 8.2    | degree of precision                                | B    | ..    | ST   | HL70529 | e.g. D                        |
| 9      | Administrative Sex                                 | R    | 1..1  | IS   | HL70001 | e.g. U                        |
| 10     | Patient Alias                                      | B    | 0..*  | XPN  |         |                               |
| 10.1   | family name                                        | O    | 0..   | FN   |         |                               |
| 10.1.1 | surname                                            | R    | 1..1  | ST   |         |                               |
| 10.1.2 | own surname prefix                                 | O    | 0..   | ST   |         |                               |
| 10.1.3 | own surname                                        | O    | 0..   | ST   |         |                               |
| 10.1.4 | surname prefix from partner/spouse                 | O    | 0..   | ST   |         |                               |
| 10.1.5 | surname from partner/spouse                        | O    | 0..   | ST   |         |                               |
| 10.2   | given name                                         | O    | 0..   | ST   |         |                               |
| 10.3   | second and further given names or initials thereof | O    | 0..   | ST   |         |                               |
| 10.4   | suffix (e.g., JR or III)                           | O    | 0..   | ST   |         |                               |
| 10.5   | prefix (e.g., DR)                                  | O    | 0..   | ST   |         |                               |
| 10.6   | degree (e.g., MD)                                  | B    | ..    | IS   | HL70360 |                               |
| 10.7   | name type code                                     | O    | 0..   | ID   | HL70200 |                               |
| 10.8   | name representation code                           | O    | 0..   | ID   | HL70465 |                               |
| 10.9   | name context                                       | O    | 0..   | CE   | HL70448 |                               |
| 10.9.1 | identifier                                         | O    | 0..   | ST   |         |                               |
| 10.9.2 | text                                               | O    | 0..   | ST   |         |                               |
| 10.9.3 | name of coding system                              | O    | 0..   | ID   | HL70396 |                               |
| 10.9.4 | alternate identifier                               | O    | 0..   | ST   |         |                               |

| Seq.    | Name                            | Opt. | Card. | Type | Table   | Contents                      |
|---------|---------------------------------|------|-------|------|---------|-------------------------------|
| 10.9.5  | alternate text                  | O    | 0..   | ST   |         |                               |
| 10.9.6  | name of alternate coding system | O    | 0..   | ID   | HL70396 |                               |
| 10.10   | name validity range             | B    | ..    | DR   |         |                               |
| 10.10.1 | range start date/time           | O    | 0..   | TS   |         |                               |
| 10.10.2 | range end date/time             | O    | 0..   | TS   |         |                               |
| 10.11   | name assembly order             | O    | 0..   | ID   | HL70444 |                               |
| 10.12   | effective date                  | O    | 0..   | TS   |         |                               |
| 10.12.1 | time                            | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 10.12.2 | degree of precision             | B    | ..    | ST   | HL70529 | e.g. D                        |
| 10.13   | expiration date                 | O    | 0..   | TS   |         |                               |
| 10.13.1 | time                            | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 10.13.2 | degree of precision             | B    | ..    | ST   | HL70529 | e.g. D                        |
| 10.14   | professional suffix             | O    | 0..   | ST   |         |                               |
| 11      | Race                            | O    | 0..*  | CE   | HL70005 |                               |
| 11.1    | identifier                      | O    | 0..   | ST   |         |                               |
| 11.2    | text                            | O    | 0..   | ST   |         |                               |
| 11.3    | name of coding system           | O    | 0..   | ID   | HL70396 |                               |
| 11.4    | alternate identifier            | O    | 0..   | ST   |         |                               |
| 11.5    | alternate text                  | O    | 0..   | ST   |         |                               |
| 11.6    | name of alternate coding system | O    | 0..   | ID   | HL70396 |                               |
| 12      | Patient Address                 | R    | 1..*  | XAD  |         |                               |
| 12.1    | street address                  | O    | 0..   | SAD  |         |                               |
| 12.1.1  | street or mailing address       | O    | 0..   | ST   |         | e.g. 19 Street                |
| 12.1.2  | street name                     | O    | 0..   | ST   |         |                               |
| 12.1.3  | dwelling number                 | O    | 0..   | ST   |         |                               |
| 12.2    | other designation               | O    | 0..   | ST   |         |                               |
| 12.3    | city                            | O    | 0..   | ST   |         | e.g. Anytown                  |
| 12.4    | state or province               | O    | 0..   | ST   |         | e.g. Anystate                 |
| 12.5    | zip or postal code              | O    | 0..   | ST   |         | e.g. 12345                    |
| 12.6    | country                         | O    | 0..   | ID   | HL70399 | e.g. US                       |
| 12.7    | address type                    | O    | 0..   | ID   | HL70190 |                               |
| 12.8    | other geographic designation    | O    | 0..   | ST   |         |                               |
| 12.9    | county/parish code              | O    | 0..   | IS   | HL70289 |                               |
| 12.10   | census tract                    | O    | 0..   | IS   | HL70288 |                               |
| 12.11   | address representation code     | O    | 0..   | ID   | HL70465 |                               |
| 12.12   | address validity range          | B    | ..    | DR   |         |                               |
| 12.12.1 | range start date/time           | O    | 0..   | TS   |         |                               |

| Seq.    | Name                             | Opt. | Card. | Type | Table   | Contents                      |
|---------|----------------------------------|------|-------|------|---------|-------------------------------|
| 12.12.2 | range end date/time              | O    | 0..   | TS   |         |                               |
| 12.13   | effective date                   | O    | 0..   | TS   |         |                               |
| 12.13.1 | time                             | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 12.13.2 | degree of precision              | B    | ..    | ST   | HL70529 | e.g. D                        |
| 12.14   | expiration date                  | O    | 0..   | TS   |         |                               |
| 12.14.1 | time                             | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 12.14.2 | degree of precision              | B    | ..    | ST   | HL70529 | e.g. D                        |
| 13      | County Code                      | B    | 0..*  | IS   | HL70289 |                               |
| 14      | Phone Number - Home              | O    | 0..*  | XTN  |         |                               |
| 14.1    | telephone number                 | B    | ..    | ST   |         |                               |
| 14.2    | telecommunication use code       | O    | 0..   | ID   | HL70201 |                               |
| 14.3    | telecommunication equipment type | O    | 0..   | ID   | HL70202 |                               |
| 14.4    | email address                    | O    | 0..   | ST   |         |                               |
| 14.5    | country code                     | O    | 0..   | NM   |         |                               |
| 14.6    | area/city code                   | O    | 0..   | NM   |         |                               |
| 14.7    | local number                     | O    | 0..   | NM   |         |                               |
| 14.8    | extension                        | O    | 0..   | NM   |         |                               |
| 14.9    | any text                         | O    | 0..   | ST   |         |                               |
| 14.10   | extension prefix                 | O    | 0..   | ST   |         |                               |
| 14.11   | speed dial code                  | O    | 0..   | ST   |         |                               |
| 14.12   | unformatted telephone number     | C    | 0..   | ST   |         |                               |
| 15      | Phone Number - Business          | O    | 0..*  | XTN  |         |                               |
| 15.1    | telephone number                 | B    | ..    | ST   |         |                               |
| 15.2    | telecommunication use code       | O    | 0..   | ID   | HL70201 |                               |
| 15.3    | telecommunication equipment type | O    | 0..   | ID   | HL70202 |                               |
| 15.4    | email address                    | O    | 0..   | ST   |         |                               |
| 15.5    | country code                     | O    | 0..   | NM   |         |                               |
| 15.6    | area/city code                   | O    | 0..   | NM   |         |                               |
| 15.7    | local number                     | O    | 0..   | NM   |         |                               |
| 15.8    | extension                        | O    | 0..   | NM   |         |                               |
| 15.9    | any text                         | O    | 0..   | ST   |         |                               |
| 15.10   | extension prefix                 | O    | 0..   | ST   |         |                               |
| 15.11   | speed dial code                  | O    | 0..   | ST   |         |                               |
| 15.12   | unformatted telephone number     | C    | 0..   | ST   |         |                               |
| 16      | Primary Language                 | O    | 0..1  | CE   | HL70296 |                               |
| 16.1    | identifier                       | O    | 0..   | ST   |         |                               |
| 16.2    | text                             | O    | 0..   | ST   |         |                               |

| Seq.   | Name                            | Opt. | Card. | Type | Table   | Contents |
|--------|---------------------------------|------|-------|------|---------|----------|
| 16.3   | name of coding system           | O    | 0..   | ID   | HL70396 |          |
| 16.4   | alternate identifier            | O    | 0..   | ST   |         |          |
| 16.5   | alternate text                  | O    | 0..   | ST   |         |          |
| 16.6   | name of alternate coding system | O    | 0..   | ID   | HL70396 |          |
| 17     | Marital Status                  | O    | 0..1  | CE   | HL70002 |          |
| 17.1   | identifier                      | O    | 0..   | ST   |         |          |
| 17.2   | text                            | O    | 0..   | ST   |         |          |
| 17.3   | name of coding system           | O    | 0..   | ID   | HL70396 |          |
| 17.4   | alternate identifier            | O    | 0..   | ST   |         |          |
| 17.5   | alternate text                  | O    | 0..   | ST   |         |          |
| 17.6   | name of alternate coding system | O    | 0..   | ID   | HL70396 |          |
| 18     | Religion                        | O    | 0..1  | CE   | HL70006 |          |
| 18.1   | identifier                      | O    | 0..   | ST   |         |          |
| 18.2   | text                            | O    | 0..   | ST   |         |          |
| 18.3   | name of coding system           | O    | 0..   | ID   | HL70396 |          |
| 18.4   | alternate identifier            | O    | 0..   | ST   |         |          |
| 18.5   | alternate text                  | O    | 0..   | ST   |         |          |
| 18.6   | name of alternate coding system | O    | 0..   | ID   | HL70396 |          |
| 19     | Patient Account Number          | O    | 0..1  | CX   |         |          |
| 19.1   | ID number                       | R    | 1..1  | ST   |         |          |
| 19.2   | check digit                     | O    | 0..   | ST   |         |          |
| 19.3   | check digit scheme              | O    | 0..   | ID   | HL70061 |          |
| 19.4   | assigning authority             | B    | ..    | HD   | HL70363 |          |
| 19.4.1 | namespace ID                    | O    | 0..   | IS   | HL70300 |          |
| 19.4.2 | universal ID                    | C    | 0..   | ST   |         |          |
| 19.4.3 | universal ID type               | C    | 0..   | ID   | HL70301 |          |
| 19.5   | identifier type code            | O    | 0..   | ID   | HL70203 |          |
| 19.6   | assigning facility              | O    | 0..   | HD   |         |          |
| 19.6.1 | namespace ID                    | O    | 0..   | IS   | HL70300 |          |
| 19.6.2 | universal ID                    | C    | 0..   | ST   |         |          |
| 19.6.3 | universal ID type               | C    | 0..   | ID   | HL70301 |          |
| 19.7   | effective date                  | O    | 0..   | DT   |         |          |
| 19.8   | expiration date                 | O    | 0..   | DT   |         |          |
| 19.9   | assigning jurisdiction          | O    | 0..   | CWE  |         |          |
| 19.9.1 | identifier                      | O    | 0..   | ST   |         |          |
| 19.9.2 | text                            | O    | 0..   | ST   |         |          |
| 19.9.3 | name of coding system           | O    | 0..   | ID   | HL70396 |          |

| Seq.    | Name                               | Opt. | Card. | Type | Table   | Contents |
|---------|------------------------------------|------|-------|------|---------|----------|
| 19.9.4  | alternate identifier               | O    | 0..   | ST   |         |          |
| 19.9.5  | alternate text                     | O    | 0..   | ST   |         |          |
| 19.9.6  | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 19.9.7  | coding system version ID           | O    | 0..   | ST   |         |          |
| 19.9.8  | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 19.9.9  | original text                      | O    | 0..   | ST   |         |          |
| 19.10   | assigning agency or department     | O    | 0..   | CWE  |         |          |
| 19.10.1 | identifier                         | O    | 0..   | ST   |         |          |
| 19.10.2 | text                               | O    | 0..   | ST   |         |          |
| 19.10.3 | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 19.10.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 19.10.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 19.10.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 19.10.7 | coding system version ID           | O    | 0..   | ST   |         |          |
| 19.10.8 | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 19.10.9 | original text                      | O    | 0..   | ST   |         |          |
| 20      | SSN Number - Patient               | B    | 0..*  | ST   |         |          |
| 21      | Driver's License Number - Patient  | B    | 0..*  | DLN  |         |          |
| 21.1    | driver's license number            | R    | 1..1  | ST   |         |          |
| 21.2    | issuing state, province, country   | O    | 0..   | IS   | HL70333 |          |
| 21.3    | expiration date                    | O    | 0..   | DT   |         |          |
| 22      | Mother's Identifier                | O    | 0..*  | CX   |         |          |
| 22.1    | ID number                          | R    | 1..1  | ST   |         |          |
| 22.2    | check digit                        | O    | 0..   | ST   |         |          |
| 22.3    | check digit scheme                 | O    | 0..   | ID   | HL70061 |          |
| 22.4    | assigning authority                | B    | ..    | HD   | HL70363 |          |
| 22.4.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |          |
| 22.4.2  | universal ID                       | C    | 0..   | ST   |         |          |
| 22.4.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |          |
| 22.5    | identifier type code               | O    | 0..   | ID   | HL70203 |          |
| 22.6    | assigning facility                 | O    | 0..   | HD   |         |          |
| 22.6.1  | namespace ID                       | O    | 0..   | IS   | HL70300 |          |
| 22.6.2  | universal ID                       | C    | 0..   | ST   |         |          |
| 22.6.3  | universal ID type                  | C    | 0..   | ID   | HL70301 |          |
| 22.7    | effective date                     | O    | 0..   | DT   |         |          |
| 22.8    | expiration date                    | O    | 0..   | DT   |         |          |
| 22.9    | assigning jurisdiction             | O    | 0..   | CWE  |         |          |

| Seq.    | Name                               | Opt. | Card. | Type | Table   | Contents |
|---------|------------------------------------|------|-------|------|---------|----------|
| 22.9.1  | identifier                         | O    | 0..   | ST   |         |          |
| 22.9.2  | text                               | O    | 0..   | ST   |         |          |
| 22.9.3  | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 22.9.4  | alternate identifier               | O    | 0..   | ST   |         |          |
| 22.9.5  | alternate text                     | O    | 0..   | ST   |         |          |
| 22.9.6  | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 22.9.7  | coding system version ID           | O    | 0..   | ST   |         |          |
| 22.9.8  | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 22.9.9  | original text                      | O    | 0..   | ST   |         |          |
| 22.10   | assigning agency or department     | O    | 0..   | CWE  |         |          |
| 22.10.1 | identifier                         | O    | 0..   | ST   |         |          |
| 22.10.2 | text                               | O    | 0..   | ST   |         |          |
| 22.10.3 | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 22.10.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 22.10.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 22.10.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 22.10.7 | coding system version ID           | O    | 0..   | ST   |         |          |
| 22.10.8 | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 22.10.9 | original text                      | O    | 0..   | ST   |         |          |
| 23      | Ethnic Group                       | O    | 0..*  | CE   | HL70189 |          |
| 23.1    | identifier                         | O    | 0..   | ST   |         |          |
| 23.2    | text                               | O    | 0..   | ST   |         |          |
| 23.3    | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 23.4    | alternate identifier               | O    | 0..   | ST   |         |          |
| 23.5    | alternate text                     | O    | 0..   | ST   |         |          |
| 23.6    | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 24      | Birth Place                        | O    | 0..1  | ST   |         |          |
| 25      | Multiple Birth Indicator           | O    | 0..1  | ID   | HL70136 |          |
| 26      | Birth Order                        | O    | 0..1  | NM   |         |          |
| 27      | Citizenship                        | O    | 0..*  | CE   | HL70171 |          |
| 27.1    | identifier                         | O    | 0..   | ST   |         |          |
| 27.2    | text                               | O    | 0..   | ST   |         |          |
| 27.3    | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 27.4    | alternate identifier               | O    | 0..   | ST   |         |          |
| 27.5    | alternate text                     | O    | 0..   | ST   |         |          |
| 27.6    | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 28      | Veterans Military Status           | O    | 0..1  | CE   | HL70172 |          |

| Seq. | Name                            | Opt. | Card. | Type | Table   | Contents                      |
|------|---------------------------------|------|-------|------|---------|-------------------------------|
| 28.1 | identifier                      | O    | 0..   | ST   |         |                               |
| 28.2 | text                            | O    | 0..   | ST   |         |                               |
| 28.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                               |
| 28.4 | alternate identifier            | O    | 0..   | ST   |         |                               |
| 28.5 | alternate text                  | O    | 0..   | ST   |         |                               |
| 28.6 | name of alternate coding system | O    | 0..   | ID   | HL70396 |                               |
| 29   | Nationality                     | B    | 0..*  | CE   | HL70212 |                               |
| 29.1 | identifier                      | O    | 0..   | ST   |         |                               |
| 29.2 | text                            | O    | 0..   | ST   |         |                               |
| 29.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                               |
| 29.4 | alternate identifier            | O    | 0..   | ST   |         |                               |
| 29.5 | alternate text                  | O    | 0..   | ST   |         |                               |
| 29.6 | name of alternate coding system | O    | 0..   | ID   | HL70396 |                               |
| 30   | Patient Death Date and Time     | O    | 0..1  | TS   |         |                               |
| 30.1 | time                            | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 30.2 | degree of precision             | B    | ..    | ST   | HL70529 | e.g. D                        |
| 31   | Patient Death Indicator         | O    | 0..1  | ID   | HL70136 |                               |
| 32   | Identity Unknown Indicator      | O    | 0..1  | ID   | HL70136 |                               |
| 33   | Identity Reliability Code       | O    | 0..*  | IS   | HL70445 |                               |
| 34   | Last Update Date/Time           | O    | 0..1  | TS   |         |                               |
| 34.1 | time                            | R    | 1..1  | DTM  |         | e.g. 20040328134623.1234+0300 |
| 34.2 | degree of precision             | B    | ..    | ST   | HL70529 | e.g. D                        |
| 35   | Last Update Facility            | O    | 0..1  | HD   |         |                               |
| 35.1 | namespace ID                    | O    | 0..   | IS   | HL70300 |                               |
| 35.2 | universal ID                    | C    | 0..   | ST   |         |                               |
| 35.3 | universal ID type               | C    | 0..   | ID   | HL70301 |                               |
| 36   | Species Code                    | C    | 0..1  | CE   | HL70446 |                               |
| 36.1 | identifier                      | O    | 0..   | ST   |         |                               |
| 36.2 | text                            | O    | 0..   | ST   |         |                               |
| 36.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                               |
| 36.4 | alternate identifier            | O    | 0..   | ST   |         |                               |
| 36.5 | alternate text                  | O    | 0..   | ST   |         |                               |
| 36.6 | name of alternate coding system | O    | 0..   | ID   | HL70396 |                               |
| 37   | Breed Code                      | C    | 0..1  | CE   | HL70447 |                               |
| 37.1 | identifier                      | O    | 0..   | ST   |         |                               |
| 37.2 | text                            | O    | 0..   | ST   |         |                               |
| 37.3 | name of coding system           | O    | 0..   | ID   | HL70396 |                               |

| Seq. | Name                               | Opt. | Card. | Type | Table   | Contents |
|------|------------------------------------|------|-------|------|---------|----------|
| 37.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 37.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 37.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 38   | Strain                             | O    | 0..1  | ST   |         |          |
| 39   | Production Class Code              | O    | 0..1  | CE   | HL70429 |          |
| 39.1 | identifier                         | O    | 0..   | ST   |         |          |
| 39.2 | text                               | O    | 0..   | ST   |         |          |
| 39.3 | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 39.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 39.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 39.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 40   | Tribal Citizenship                 | O    | 0..*  | CWE  | HL70171 |          |
| 40.1 | identifier                         | O    | 0..   | ST   |         |          |
| 40.2 | text                               | O    | 0..   | ST   |         |          |
| 40.3 | name of coding system              | O    | 0..   | ID   | HL70396 |          |
| 40.4 | alternate identifier               | O    | 0..   | ST   |         |          |
| 40.5 | alternate text                     | O    | 0..   | ST   |         |          |
| 40.6 | name of alternate coding system    | O    | 0..   | ID   | HL70396 |          |
| 40.7 | coding system version ID           | O    | 0..   | ST   |         |          |
| 40.8 | alternate coding system version ID | O    | 0..   | ST   |         |          |
| 40.9 | original text                      | O    | 0..   | ST   |         |          |

## 1. Set ID - PID

## 2. Patient ID

### 2.4.2. universal ID

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### 2.4.3. universal ID type

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both

be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **2.6.2. universal ID**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **2.6.3. universal ID type**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **3. Patient Identifier List**

### **3.4.2. universal ID**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **3.4.3. universal ID type**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## 4. Patient Identifier List

### 4.4.2. universal ID

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### 4.4.3. universal ID type

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## 5. Alternate Patient ID - PID

### 5.4.2. universal ID

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### 5.4.3. universal ID type

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both

be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **5.6.2. universal ID**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **5.6.3. universal ID type**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **6. Patient Name**

### **6.12.2. degree of precision**

Retained for backward compatibility only

### **6.13.2. degree of precision**

Retained for backward compatibility only

## **7. Mother\_s Maiden Name**

### **7.12.2. degree of precision**

Retained for backward compatibility only

### **7.13.2. degree of precision**

Retained for backward compatibility only

## 8. Date/Time of Birth

### 8.2. degree of precision

Retained for backward compatibility only

## 9. Administrative Sex

## 10. Patient Alias

### 10.12.2. degree of precision

Retained for backward compatibility only

### 10.13.2. degree of precision

Retained for backward compatibility only

## 11. Race

## 12. Patient Address

### 12.12. address validity range

deprecated as of v2.5

### 12.13.2. degree of precision

Retained for backward compatibility only

### 12.14.2. degree of precision

Retained for backward compatibility only

## 13. County Code

## 14. Phone Number - Home

### 14.1. telephone number

Format: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text]

### 14.12. unformatted telephone number

*Condition Predicate:*

An expression of the telephone number as an unparsable string

## 15. Phone Number - Business

### 15.1. telephone number

Format: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text]

### 15.12. unformatted telephone number

*Condition Predicate:*

An expression of the telephone number as an unparsable string

**16. Primary Language****17. Marital Status****18. Religion****19. Patient Account Number****19.4.2. universal ID***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

**19.4.3. universal ID type***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

**19.6.2. universal ID***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

**19.6.3. universal ID type***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

## **20. SSN Number - Patient**

## **21. Driver's License Number - Patient**

## **22. Mother's Identifier**

### **22.4.2. universal ID**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **22.4.3. universal ID type**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **22.6.2. universal ID**

#### *Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

**22.6.3. universal ID type***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

**23. Ethnic Group****24. Birth Place****25. Multiple Birth Indicator****26. Birth Order****27. Citizenship****28. Veterans Military Status****29. Nationality****30. Patient Death Date and Time****30.2. degree of precision**

Retained for backward compatibility only

**31. Patient Death Indicator****32. Identity Unknown Indicator****33. Identity Reliability Code****34. Last Update Date/Time****34.2. degree of precision**

Retained for backward compatibility only

**35. Last Update Facility****35.2. universal ID***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **35.3. universal ID type**

*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

### **36. Species Code**

### **37. Breed Code**

### **38. Strain**

### **39. Production Class Code**

### **40. Tribal Citizenship**