

# Illinois Department of Public Health

## I-CARE Local Implementation Guide for HL7 Immunization Messaging

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HL7 versions 2.3.1 and 2.5.1



Based on

<http://www.cdc.gov/vaccines/programs/iis/technical-guidance/downloads/hl7guide-1-4-2012-08.pdf>

Implementation Guide for HL7 version 2.5.1

and

<http://www.cdc.gov/vaccines/programs/iis/technical-guidance/downloads/hl7guide.pdf>

Implementation Guide for HL7 version 2.3.1

If you want to pass *MU Stage 2*, make sure your HL7 messages comply with CDC document

<http://www.cdc.gov/vaccines/programs/iis/technical-guidance/downloads/hl7-clarification-R4.pdf>

IZ-01 through IZ-37.

Last Updated: 1/13/2014

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**Vaccines for Children (VFC) providers:**

I-CARE will need to maintain your VFC vaccine inventory for the on-line VFC ordering process. For determination of VFC inventory, I-CARE will use the below order to determine if vaccine is VFC. **Lot Number (RXA-15) is required.**

Dose-level Immunization VFC vaccine will be determined by order:

- a. Immunization Financial Class in OBX segment, if exists (see Appendix G);
- b. Patient Financial Class in PV1-20, if exists;

If none of the above is available I-CARE assumes vaccine is not VFC.

Fields needed to maintain accurate VFC inventory within I-CARE.

- OBX-3** (preferred) for VFC vaccine eligibility per dose or PV1.20 for VFC vaccine eligibility for the patient.
- RXA-3** Shot Administration Date
- RXA-5** CVX
- RXA-9** for new or historical immunizations. We will only deduct new immunizations from inventory.
- RXA-11** to determine which provider's inventory to deduct from. If this is not available we will default to the MSH-4.
- RXA-15** Lot Number
- RXA-17** Manufacturer

All Messages

| Spec Notes  |
|---|
| [] = optional                                       |
| { } = repeatable                                    |
| R = required  |
| RE = required but may be empty<br>(in 2.3.1 RE = O) |
| O = optional  |
| C = conditional                                     |
| C(a/b) = multi-choice conditional                   |
| CE = conditional but may be empty                   |
| X = not supported                                   |

| Batch Messages                      |
|-------------------------------------|
| VXU-V04 - Vaccination Record Update |
| ADT-A04 - Register a Patient        |
| ADT-A28 - Add Person Information    |
| ADT-A31 - Update Person Information |

| Real Time Messages                     |
|--|
| QBP-Q11 (v2.5.1) - Request Imm History |
| VXQ-V01 (v2.3.1) - Request Imm History |
| ADT-A29 - Delete Person Information    |
| ADT-A40 - Merge Patient                |

*Note: differences in v2.3.1 and v2.5.1 will be anotated in the specs.  
Specs are based on v2.3.1 and v2.5.1 except where indicated*

*Fields that are imported into I-CARE are highlighted in green.*

*Fields required in order to be imported into I-CARE are hightlighted in red.*

*Please note that HL7 required fields are in bold but are not necessarily mapped into the I-CARE Registry, but should be present in order to remain HL7 compliant.*

**VXQ^V01**

*\*Please note these specifications are subject to change to meet current Illinois Department of Public Health policies.*

**Query for Vaccination Record**

| Segment | Cardinality | Usage | Field Name               | Comment   |
|---------|-------------|-------|--------------------------|---|
| MSH     | [1..1]      | R     | Message Header Segment   | Every message begins with an MSH.                           |
| QRD     | [1..1]      | R     | Query Definition Segment | Every VXQ has one QRD segment.                              |
| [QRF]   | [0..1]      | O     | Query Filter Segment     | Every QRD segment in VXQ may have one or less QRF segments. |

v2.3.1

Realtime VXQ responses: VXR, VXX, ACK, QCK

VXX^V02

**Response to Vaccination Query Returning Multiple PID Matches**

| Segment | Cardinality          | Usage | Field Name                     | Comment  |
|---------|----------------------|-------|--------------------------------|--|
| MSH     | [1..1]               | R     | Message Header Segment         | Every message begins with an MSH.                  |
| MSA     | [1..1]               | R     | Message Acknowledgment         | Every VXX has one MSA segment.                     |
| QRD     | [1..1]               | R     | Query Definition Segment       | Every VXX has one QRD segment.                     |
| [QRF]   | [0..1]               | O     | Query Filter Segment           | May have one or less QRF segments.                 |
| {       | <b>PATIENT begin</b> |       |                                |  |
| PID     | [1..1]               | R     | Patient Identification Segment | Each Patient Group will have only one PID segment. |
| [{NK1}] | [0..*]               | O     | Next of Kin/Associated Parties |  |
| }       | <b>PATIENT end</b>   |       |                                |  |

v2.3.1

Realtime VXQ responses: VXR, VXX, ACK, QCK

VXR^V03

**Vaccination Record Response**

| Segment | Cardinality                | Usage | Field Name                           | Comment  |
|---------|----------------------------|-------|--------------------------------------|--|
| MSH     | [1..1]                     | R     | Message Header Segment               | Every message begins with an MSH.  |
| MSA     | [1..1]                     | R     | Message Acknowledgment               | Every VXR has one MSA segment.   |
| QRD     | [1..1]                     | R     | Query Definition Segment             | Every VXR has one QRD segment.   |
| [QRF]   | [0..1]                     | O     | Query Filter Segment                 | May have one or less QRF segments.   |
| PID     | [1..1]                     | R     | Patient Identification Segment       | Every VXR has one PID segment.   |
| [PD1]   | [0..1]                     | O     | Additional Demographics              | Every PID segment in VXU may have one or less PD1 segment.   |
| [[NK1]] | [0..*]                     | O     | Next of Kin/Associated Parties       | The PID segment in a VXR may have zero or more NK1 segments.   |
| [       | <b>PATIENT VISIT begin</b> |       |                                      |  |
| PV1     | [0..1]                     | O     | Patient Visit                        | The PID segment in a VXR may have zero or one PV1 segment. Subsequent messages regarding the same patient/client may have a different PV1 segment. |
| [PV2]   | [0..1]                     | X     | Patient Visit Additional Information |  |
| ]       | <b>PATIENT VISIT end</b>   |       |                                      |  |
| [[      | <b>ORDER begin</b>         |       |                                      | Each VXR may have zero or more Order Groups.   |
| [ORC]   | [0..*]                     | O     | Common Order Segment                 | The PID segment in a VXR may have zero or more ORC segments.   |
| RXA     | [1..1]                     | R     | Pharmacy Administration              | Each ORC segment in a VXR must have one RXA segment. Every RXA requires an ORC segment.  |
| [RXR]   | [0..1]                     | O     | Pharmacy Route                       | Every RXA segment in a VXR may have zero or one RXR segments.  |
| [{      | <b>OBSERVATION BEGIN</b>   |       |                                      |  |
| OBX     | [0..*]                     | O     | Observation/Result                   | Every RXA segment in a VXR may have zero or more OBX segments.   |
| [[NTE]] | [0..1]                     | O     | Notes (Regarding Immunizations)      | Every OBX segment in a VXR may have zero or one NTE segment.   |
| }]      | <b>OBSERVATION END</b>     |       |                                      |  |
| }}]     | <b>ORDER end</b>           |       |                                      |  |

v2.3.1

Realtime VXQ responses: VXR, VXX, ACK, QCK

VXU^V04

**Unsolicited Vaccination Record Update**

| Segment | Cardinality                | Usage | Field Name                             | Comment  |
|---------|----------------------------|-------|--|--|
| MSH     | [1..1]                     | R     | Message Header Segment                 | Every message begins with an MSH.  |
| PID     | [1..1]                     | R     | Patient Identification Segment         | Every VXU has one PID segment.   |
| [PD1]   | [0..1]                     | RE    | Additional Demographics                | Every PID segment in VXU may have one or less PD1 segment.   |
| [[NK1]] | [0..*]                     | RE    | Next of Kin/Associated Parties         | The PID segment in a VXU may have zero or more NK1 segments.   |
| [       | <b>PATIENT VISIT begin</b> |       |  |  |
| PV1     | [0..1]                     | RE    | Patient Visit                          | The PID segment in a VXU may have zero or one PV1 segment. Subsequent messages regarding the same patient/client may have a different PV1 segment. |
| [PV2]   | [0..1]                     | X     | Patient Visit Additional Information   |  |
| ]       | <b>PATIENT VISIT end</b>   |       |  |  |
| [{      | <b>INSURANCE begin</b>     |       |  | Each VXU may have zero or more Insurance Groups.   |
| IN1     | [0..1]                     | X     | Insurance                              |  |
| [IN2]   | [0..1]                     | X     | Insurance Additional Information       |  |
| [IN3]   | [0..1]                     | X     | Insurance Additional Information-Cert. |  |
| }}      | <b>INSURANCE end</b>       |       |  |  |
| [{      | <b>ORDER begin</b>         |       |  | Each VXU may have zero or more Order Groups.   |
| *ORC    | [1..*]                     | RE    | Common Order Segment                   | The PID segment in a VXU may have zero or more ORC segments.   |
| RXA     | [1..1]                     | R     | Pharmacy Administration                | Each ORC segment in a VXU must have one RXA segment. Every RXA requires an ORC segment.  |
| [RXR]   | [0..1]                     | RE    | Pharmacy Route                         | Every RXA segment in a VXU may have zero or one RXR segments.  |
| [{      | <b>OBSERVATION BEGIN</b>   |       |  |  |
| OBX     | [0..*]                     | RE    | Observation/Result                     | Every RXA segment in a VXU may have zero or more OBX segments.   |
| [[NTE]] | [0..1]                     | RE    | Notes (Regarding Immunizations)        | Every OBX segment in a VXU may have zero or one NTE segment.   |
| }}      | <b>OBSERVATION END</b>     |       |  |  |
| }}      | <b>ORDER end</b>           |       |  |  |

*\*While not all immunizations recorded in an immunization message are able to be associated with an order, each RXA must be associated with one ORC, based on HL7 2.5.1 standard. The ORC in v2.3.1 is optional.*



ADT^A01

**Admit/Visit Notification**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| {         | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }         | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | O     | Guarantor                            |   |
| {         | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }         | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |
| [PDA]     | [0..1]                 | X     | Patient Death and Autopsy            |   |

ADT^A04

**Register a Patient**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| {         | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }         | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | X     | Guarantor                            |   |
| {         | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }         | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |
| [PDA]     | [0..1]                 | X     | Patient Death and Autopsy            |   |

ADT^A05

**Pre-admit a Patient**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| [{        | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }]        | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | X     | Guarantor                            |   |
| [{        | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }]        | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |

ADT^A08

**Update Patient Information**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| [{        | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }]        | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | X     | Guarantor                            |   |
| [{        | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }]        | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |
| [PDA]     | [0..1]                 | X     | Patient Death and Autopsy            |   |

ADT^A28

**Add Person Information**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| [{        | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }]        | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | X     | Guarantor                            |   |
| [{        | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }]        | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |

**ADT^A29^ADT\_A21****Delete Person Information**

| Segment | Cardinality | Usage | Field Name                     | Comment                           |
|---------|-------------|-------|--------------------------------|-----------------------------------|
| MSH     | [1..1]      | R     | Message Header Segment         | Every message begins with an MSH. |
| EVN     | [1..1]      | R     | Event Type                     | Every ADT has one EVN segment.    |
| PID     | [1..1]      | R     | Patient Identification Segment | Every ADT has one PID segment.    |

ADT^A31

**Update Person Information**

| Segment   | Cardinality            | Usage | Field Name                           | Comment   |
|-----------|------------------------|-------|--------------------------------------|---|
| MSH       | [1..1]                 | R     | Message Header Segment               | Every message begins with an MSH.                             |
| EVN       | [1..1]                 | R     | Event Type                           | Every ADT has one EVN segment.                                |
| PID       | [1..1]                 | R     | Patient Identification Segment       | Every ADT has one PID segment.                                |
| [PD1]     | [0..1]                 | RE    | Patient Additional Demographics      | Every PID segment in ADT may have zero or one PD1 segment.    |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{NK1}]] | [0..*]                 | O     | Next of Kin/Associated Parties       | The PID segment in a ADT may have zero or more NK1 segments.  |
| PV1       | [1..1]                 | R     | Patient Visit Information            | The PID segment in an ADT must have one PV1 segment.          |
| [PV2]     | [0..1]                 | X     | Patient Visit Additional Information |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| [[{DB1}]] | [0..*]                 | X     | Disability Information               |   |
| [[{OBX}]] | [0..*]                 | O     | Observation /Result                  | The PID segment in an ADT may have zero or more OBX segments. |
| [[{AL1}]] | [0..*]                 | X     | Allergy Information                  |   |
| [[{DG1}]] | [0..*]                 | X     | Diagnosis Information                |   |
| [DRG]     | [0..*]                 | X     | Diagnosis Related Group              |   |
| [{        | <b>PROCEDURE begin</b> |       |                                      |   |
| PR1       | [0..1]                 | O     | Procedures                           |   |
| [[{ROL}]] | [0..*]                 | O     | Role                                 |   |
| }]        | <b>PROCEDURE end</b>   |       |                                      |   |
| [[{GT1}]] | [0..*]                 | X     | Guarantor                            |   |
| [{        | <b>INSURANCE begin</b> |       |                                      |   |
| IN1       | [0..1]                 | X     | Insurance                            |   |
| [IN2]     | [0..1]                 | X     | Insurance Add'l Information          |   |
| [[{IN3}]] | [0..*]                 | X     | Insurance Add'l Info - Cert          |   |
| [[{ROL}]] | [0..*]                 | X     | Role                                 |   |
| }]        | <b>INSURANCE end</b>   |       |                                      |   |
| [ACC]     | [0..1]                 | X     | Accident Information                 |   |
| [UB1]     | [0..1]                 | X     | Universal Bill Information           |   |
| [UB2]     | [0..1]                 | X     | Universal Bill 92 Information        |   |

ADT^A40^ADT\_A39

**Merge Patient - Patient Identifier List**

| Segment | Cardinality          | Usage | Field Name                     | Comment                           |
|---------|----------------------|-------|--------------------------------|-----------------------------------|
| MSH     | [1..1]               | R     | Message Header Segment         | Every message begins with an MSH. |
| EVN     | [1..1]               | R     | Event Type                     | Every ADT has one EVN segment.    |
| {       | <b>PATIENT begin</b> |       |                                |                                   |
| PID     | [1..1]               | R     | Patient Identification Segment | Every ADT has one PID segment.    |
| MRG     | [1..1]               | R     | Merge Information              |                                   |
| }       | <b>PATIENT end</b>   |       |                                |                                   |
|         |                      |       |                                |                                   |



**ADT^A47*****Change Patient Identifier List***

| <b>Segment</b> | <b>Cardinality</b> | <b>Usage</b> | <b>Field Name</b>               | <b>Comment</b>   |
|----------------|--------------------|--------------|---------------------------------|--|
| MSH            | [1..1]             | R            | Message Header Segment          | Every message begins with an MSH.                          |
| EVN            | [1..1]             | R            | Event Type                      | Every ADT has one EVN segment.                             |
| PID            | [1..1]             | R            | Patient Identification Segment  | Every ADT has one PID segment.                             |
| [PD1]          | [0..1]             | RE           | Patient Additional Demographics | Every PID segment in ADT may have zero or one PD1 segment. |
| MRG            | [1..1]             | R            | Merge Information               | Every ADT has one MRG segment.                             |

**ACK^varies^ACK****General Acknowledgment**

| Segment | Cardinality | Usage | Field Name             | Comment                           |
|---------|-------------|-------|------------------------|-----------------------------------|
| MSH     | [1..1]      | R     | Message Header Segment | Every message begins with an MSH. |
| MSA     | [1..1]      | R     | Message Acknowledgment | Every ACK has one MSA segment.    |
| [{ERR}] | [0..*]      | O     | Error                  | Include if there are errors.      |

**QCK^Q02****Query General Acknowledgment**

| Segment | Cardinality | Usage | Field Name             | Comment                           |
|---------|-------------|-------|------------------------|-----------------------------------|
| MSH     | [1..1]      | R     | Message Header Segment | Every message begins with an MSH. |
| MSA     | [1..1]      | R     | Message Acknowledgment | Every ACK has one MSA segment.    |
| [ERR]   | [0..1]      | O     | Error                  | Include if there are errors.      |
| [QAK]   | [0..1]      | O     | Query Acknowledgment   | Include if there are errors.      |

v2.3.1

Realtime VXQ responses: VXR, VXX, ACK, QCK

**QBP^Q11*****Request Immunization History***

| <b>Segment</b> | <b>Cardinality</b>      | <b>Usage</b> | <b>Field Name</b>          | <b>Comment</b>   |
|----------------|-------------------------|--------------|----------------------------|--|
| MSH            | [1..1]                  | R            | Message Header Segment     | Every message begins with an MSH.  |
| QPD            | [1..1]                  | R            | Query Parameter Definition | Every QBP has one QPD segment.   |
| [              | <b><i>QBP begin</i></b> |              |                            |  |
| [...]          | [1..*]                  | R            |                            | The Query Profile will specify the list of fields and their components in the order that they will be expected for this query. |
| ]              | <b><i>QBP end</i></b>   |              |                            |  |
| RCP            | [1..1]                  | R            | Response Control Parameter | The Query Profile will list the segments that are expected to be returned in response to this query.                           |

v2.5.1

Realtime QBP responses: RSP, ACK

RSP^K11

**Return Candidate List**

| Segment | Cardinality      | Usage | Field Name                 | Comment  |
|---------|------------------|-------|----------------------------|--|
| MSH     | [1..1]           | R     | Message Header Segment     | Every message begins with an MSH.  |
| MSA     | [1..1]           | R     | Message Acknowledgment     | Every RSP has one MSA segment.   |
| [ERR]   | [0..1]           | O     | Error                      | Include if there are errors.   |
| QAK     | [1..1]           | R     | Query Acknowledgment       |  |
| QPD     | [1..1]           | R     | Query Parameter Definition | This segment echoes the Query Parameter Definition Segment sent in the requesting query.   |
| [       | <b>QBP begin</b> |       |                            |  |
| ...     | [0..1]           | O     |                            | The specified segments and their contents as specified in the Segment Pattern from Query Profile, are returned here. May be null if no records returned. |
| ]       | <b>QBP end</b>   |       |                            |  |

v2.5.1

Realtime QBP responses: RSP, ACK

Message Header Segment

| Segment    | Field     | Length    | Type       | Req/Opt  | RP/#          | Table            | Item #       | Element Name                            | Comment  | Mapped   |
|------------|-----------|-----------|------------|----------|---------------|------------------|--------------|---|--|----------|
| <b>MSH</b> | <b>1</b>  | <b>1</b>  | <b>ST</b>  | <b>R</b> | <b>[1..1]</b> |                  | <b>00001</b> | <b>Field Separator</b>                  | The MSH.1 field shall be   |          |
| <b>MSH</b> | <b>2</b>  | <b>4</b>  | <b>ST</b>  | <b>R</b> | <b>[1..1]</b> |                  | <b>00002</b> | <b>Encoding Characters</b>              | The MSH.2 field shall be ^-~\&   |          |
| MSH        | 3         |           | HD         | O        | [0..1]        | 0361             | 00003        | Sending Application                     |  |          |
| <b>MSH</b> | <b>4</b>  |           | <b>HD</b>  | <b>R</b> | <b>[0..1]</b> | <b>0362</b>      | <b>00004</b> | <b>Sending Facility</b>                 |  | <b>Y</b> |
| MSH        | 5         |           | HD         | O        | [0..1]        | 0361             | 00005        | Receiving Application                   |  |          |
| MSH        | 6         |           | HD         | O        | [0..1]        | 0362             | 00006        | Receiving Facility                      |  |          |
| <b>MSH</b> | <b>7</b>  |           | <b>TS</b>  | <b>R</b> | <b>[1..1]</b> |                  | <b>00007</b> | <b>Date/Time of Message</b>             | YYYYMMDDHHMM[SS[.S[S[S[S]]]]<br>]+/- ZZZZ  |          |
| MSH        | 8         | 40        | ST         | O        | [0..1]        |                  | 00008        | Security                                |  |          |
| <b>MSH</b> | <b>9</b>  | <b>15</b> | <b>MSG</b> | <b>R</b> | <b>[1..1]</b> | <b>0076 0003</b> | <b>00009</b> | <b>Message Type</b>                     |  |          |
| <b>MSH</b> | <b>10</b> | <b>20</b> | <b>ST</b>  | <b>R</b> | <b>[1..1]</b> |                  | <b>00010</b> | <b>Message Control ID</b>               |  |          |
| <b>MSH</b> | <b>11</b> | <b>3</b>  | <b>PT</b>  | <b>R</b> | <b>[1..1]</b> |                  | <b>00011</b> | <b>Processing ID</b>                    |  |          |
| <b>MSH</b> | <b>12</b> |           | <b>VID</b> | <b>R</b> | <b>[1..1]</b> | <b>0104</b>      | <b>00012</b> | <b>Version ID</b>                       | <b>2.3.1 or 2.5.1</b>  | <b>Y</b> |
| MSH        | 13        | 15        | NM         | O        | [0..1]        |                  | 00013        | Sequence Number                         |  |          |
| MSH        | 14        | 180       | ST         | O        | [0..1]        |                  | 00014        | Continuation Pointer                    |  |          |
| MSH        | 15        | 2         | ID         | RE       | [0..1]        | 0155             | 00015        | Accept Acknowledgement Type             |  |          |
| MSH        | 16        | 2         | ID         | O        | [0..1]        | 0155             | 00016        | Application Acknowledgement Type        | AL-always, NE-Never, ER-Error/reject only, SU successful completion only   |          |
| MSH        | 17        | 3         | ID         | O        | [0..1]        | 0399             | 00017        | Country Code                            | Use 3 character country code from ISO 3166. If is empty, assume USA  |          |
| MSH        | 18        | 16        | ID         | O        | [0..1]        | 0211             | 00692        | Character Set                           | blank defaults to ASCII printable  |          |
| MSH        | 19        |           | CE         | O        | [0..1]        |                  | 00693        | Principal Language of Message           |  |          |
| MSH        | 20        | 20        | ID         | O        | [0..1]        | 0356             | 01317        | Alternate Character Set Handling Scheme |  |          |
| *MSH       | 21        |           | EI         | C(R/O)   | [0..*]        |                  | 01598        | Message Profile Identifier              | Required for QBP, RSP.<br>Z31^CDCPHINVS - Return Candidates (RSP)<br>Z34^CDCPHINVS - Return Imm History (RSP)<br>Z32^CDCPHINVS - Request Imm History (QPB) |          |

\*MSH-21 is used with v2.5.1

Patient Identification Segment

| Segment    | Field     | Length   | Type       | Req/Opt   | RP/#          | Table       | ITEM #       | Element Name                   | Comment  | Mapped   |
|------------|-----------|----------|------------|-----------|---------------|-------------|--------------|--------------------------------|--|----------|
| PID        | 1         | 4        | SI         | RE        | [1..1]        |             | 00104        | Set ID - PID                   |  |          |
| PID        | 2         |          | CX         | X         | [0..1]        |             | 00105        | Patient ID                     |  |          |
| <b>PID</b> | <b>3</b>  |          | <b>CX</b>  | <b>R</b>  | <b>[1..*]</b> |             | <b>00106</b> | <b>Patient Identifier List</b> |  | <b>Y</b> |
| PID        | 4         |          | CX         | X         | [0..1]        |             | 00107        | Alternate Patient ID - 00106   |  |          |
| <b>PID</b> | <b>5</b>  |          | <b>XPN</b> | <b>R</b>  | <b>[1..*]</b> |             | <b>00108</b> | <b>Patient Name</b>            | <b>The first repetition shall contain the legal name. Multiple given names or initials are seperated by spaces.</b>  | <b>Y</b> |
| PID        | 6         |          | XPN        | RE        | [0..1]        |             | 00109        | Mother's Maiden Name           |  | Y        |
| <b>PID</b> | <b>7</b>  |          | <b>TS</b>  | <b>R</b>  | <b>[1..1]</b> |             | <b>00110</b> | <b>Date/Time of Birth</b>      | <b>Required, must have month, day and year.</b>  | <b>Y</b> |
| <b>PID</b> | <b>8</b>  | <b>1</b> | <b>IS</b>  | <b>R</b>  | <b>[0..1]</b> | <b>0001</b> | <b>00111</b> | <b>Administrative Sex</b>      |  | <b>Y</b> |
| PID        | 9         |          | XPN        | X         | [0..1]        |             | 00112        | Patient Alias                  | This field should not be used. It was supported in earlier implementations.  |          |
| PID        | 10        |          | CE         | RE        | [0..*]        | 0005        | 00113        | Race                           |  | Y        |
| <b>PID</b> | <b>11</b> |          | <b>XAD</b> | <b>RE</b> | <b>[0..*]</b> |             | <b>00114</b> | <b>Patient Address</b>         | <b>The first repetition should be the primary address. If empty then NK1.4 is required.</b>  | <b>Y</b> |
| PID        | 12        | 4        | IS         | X         | [0..1]        | 0289        | 00115        | County Code                    | County belongs in the address field.   |          |
| PID        | 13        |          | XTN        | RE        | [0..*]        |             | 00116        | Phone Number - Home            | The first iteration is considered the primary and will follow this rule: PID13.5-8 will hold the primary number. PID13.1 will be used if PID13.5-8 is not populated. Other communication types may follow (e.g. fax, cell, e-mail) in its own iteration. | Y        |
| PID        | 14        |          | XTN        | O         | [0..1]        |             | 00117        | Phone Number - Business        | PID14.5-8 will hold the primary number. PID14.1 will be used if PID14.5-8 is not populated.  | Y        |
| PID        | 15        |          | CE         | O         | [0..1]        | 0296        | 00118        | Primary Language               | Use ISO 639.   | Y        |
| PID        | 16        |          | CE         | O         | [0..1]        |             | 00119        | Marital Status                 |  |          |
| PID        | 17        |          | CE         | O         | [0..1]        |             | 00120        | Religion                       |  |          |
| PID        | 18        |          | CX         | O         | [0..1]        |             | 00121        | Patient Account Number         |  |          |

Patient Identification Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                      | Comment   | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------------|---|--------|
| PID     | 19    | 16     | ST   | X       | [0..1] |       | 00122  | SSN Number - Patient              | Kept for backwards compatibility. It is recommended to use PID.3  | Y      |
| PID     | 20    |        | DLN  | X       | [0..1] |       | 00123  | Driver's License Number - Patient |   |        |
| PID     | 21    |        | CX   | X       | [0..1] |       | 00124  | Mother's Identifier               |   |        |
| PID     | 22    |        | CE   | RE      | [0..1] | 0189  | 00125  | Ethnic Group                      | First triplet should contain H,N,U if populated. Second triplet should contain government issued code from table xxx, if populated. If both are populated, they must match logically. |        |
| PID     | 23    | 60     | ST   | O       | [0..1] |       | 00126  | Birth Place                       | Use may be specified locally.   | O      |
| PID     | 24    | 1      | ID   | RE      | [0..1] |       |        | Multiple Birth Indicator          | Y or N  | Y      |
| PID     | 25    | 2      | NM   | C(RE/O) | [0..1] |       | 00128  | Birth Order                       | If multiple births, use person's birth order, with 1 for the first child born and 2 for the second.   | Y      |
| PID     | 26    |        | CE   | O       | [0..1] | 0171  | 00129  | Citizenship                       |   |        |
| PID     | 27    |        | CE   | O       | [0..1] | 0172  | 00130  | Veterans Military Status          |   |        |
| PID     | 28    |        | CE   | O       | [0..1] | 0212  | 00739  | Nationality                       |   | Y      |
| PID     | 29    |        | TS   | C(RE/X) | [0..1] |       | 00740  | Patient Death Date and Time       |   |        |
| PID     | 30    | 1      | ID   | CE      | [0..1] | 0136  | 00741  | Patient Death Indicator           | If patient death date is populated, then this field should be populated.  | Y      |
| PID     | 31    | 1      | ID   | O       | [0..1] | 0136  | 01535  | Identity Unknown Indicator        |   |        |
| PID     | 32    | 20     | IS   | O       | [0..1] | 0445  | 01536  | Identity Reliability              |   |        |
| PID     | 33    |        | TS   | O       | [0..1] |       | 01537  | Last Update Date/Time             | May be locally specified.   | O      |
| PID     | 34    |        | HD   | O       | [0..1] |       | 01538  | Last Update Facility              | Use is locally specified.   | O      |
| PID     | 35    |        | CE   | O       | [0..1] | 0446  | 01539  | Species Code                      |   |        |
| PID     | 36    |        | CE   | O       | [0..1] | 0447  | 01540  | Breed Code                        |   |        |
| PID     | 37    |        | ST   | O       | [0..1] |       | 01541  | Strain                            |   |        |
| PID     | 38    |        | CE   | O       | [0..1] | 0429  | 01542  | Production Class Code             |   |        |
| PID     | 39    |        | CE   | O       | [0..1] | 0171  | 01840  | Tribal Citizenship                |   |        |



Patient Additional Demographic Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                                | Comments   | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|---|--|--------|
| PD1     | 1     | 1      | ST   | O       | [0..1] | 0223  | 00755  | Living Dependency                           |  |        |
| PD1     | 2     | 4      | ST   | O       | [0..1] | 0220  | 00742  | Living Arrangement                          |  |        |
| PD1     | 3     |        | HD   | O       | [0..1] |       | 00756  | Patient Primary Facility                    |  |        |
| PD1     | 4     |        | HD   | O       | [0..1] |       | 00757  | Patient Primary Care Provider Name & ID N.  |  |        |
| PD1     | 5     |        | HD   | O       | [0..1] | 0231  | 00745  | Student Indicator                           |  |        |
| PD1     | 6     |        | HD   | O       | [0..1] | 0295  | 00753  | Handicap                                    |  |        |
| PD1     | 7     |        | TS   | O       | [0..1] | 0315  | 00759  | Living Will Code                            |  |        |
| PD1     | 8     | 40     | ST   | O       | [0..1] | 0316  | 00760  | Organ Donor Code                            |  |        |
| PD1     | 9     | 15     | MSG  | O       | [0..1] | 0136  | 00761  | Separate Bill                               |  |        |
| PD1     | 10    | 20     | ST   | O       | [0..1] |       | 00762  | Duplicate Patient                           |  |        |
| PD1     | 11    | 3      | PT   | RE      | [0..1] | 0215  | 00763  | Publicity Code                              |  |        |
| PD1     | 12    | 60     | ID   | RE      | [0..1] | 0136  | 00744  | Protection Indicator*                       | <b>ver. 2.5.1</b><br>N = consented<br>Y = unconsented<br>null = consented<br><b>ver. 2.3.1 &amp; 2.4</b><br>N = unconsented<br>Y = consented<br>null = consented |        |
| PD1     | 13    | 15     | NM   | C(RE/X) | [0..1] |       | 01566  | Protection Indicator Effective Date         | If protection indicator is valued, then this field should be valued.   |        |
| PD1     | 14    | 180    | ST   | O       | [0..1] |       | 01567  | Place Of Worship                            |  |        |
| PD1     | 15    | 2      | ID   | O       | [0..1] |       | 01568  | Advance Directive Code                      |  |        |
| PD1     | 16    | 2      | ID   | C(RE/X) | [0..1] | 0441  | 01569  | Immunization Registry Status                |  | Y      |
| PD1     | 17    | 3      | ID   | C(RE/X) | [0..1] |       | 01570  | Immunization Registry Status Effective Date | If the registry status field is filled, then this field should be valued.  |        |
| PD1     | 18    | 16     | ID   | CE      | [0..1] |       | 01571  | Publicity Code Effective Date               | If the publicity code field is filled then this field should be valued.  |        |
| PD1     | 19    |        | CE   | O       | [0..1] | 00140 | 01572  | Military Branch                             |  |        |
| PD1     | 20    | 20     | ID   | O       | [0..1] | 00141 | 00486  | Military Rank/Grade                         |  |        |
| PD1     | 21    |        | EI   | O       | [0..1] | 00142 | 01573  | Military Status                             |  |        |

\* Illinois' immunization registry is considered an Opt-Out state registry (patients/guardians un-consent by signing a form to be excluded from the registry.) If PD1 segment is missing or PD1.12 is null then the patient will be considered consented.

Patient Visit Segment

| Segment    | Field    | Length   | Type      | Req/Opt  | RP/#          | Table       | ITEM #       | Element Name              | Comments                        | Mapped |
|------------|----------|----------|-----------|----------|---------------|-------------|--------------|---------------------------|---------------------------------|--------|
| PV1        | 1        | 4        | SI        | O        | [0..1]        |             | 00131        | Set ID - PV1              | If populated, this should be 1. |        |
| <b>PV1</b> | <b>2</b> | <b>1</b> | <b>IS</b> | <b>R</b> | <b>[1..1]</b> | <b>0004</b> | <b>00132</b> | <b>Patient Class</b>      |                                 |        |
| PV1        | 3        |          | PL        | O        | [0..1]        |             | 00133        | Assigned Patient Location |                                 |        |
| PV1        | 4        | 2        | IS        | O        | [0..1]        | 0007        | 00134        | Admission Type            |                                 |        |
| PV1        | 5        |          | CX        | O        | [0..1]        |             | 00135        | Preadmit Number           |                                 |        |
| PV1        | 6        |          | PL        | O        | [0..1]        |             | 00136        | Prior Patient Location    |                                 |        |
| PV1        | 7        |          | XCN       | O        | [0..1]        | 0010        | 00137        | Attending Doctor          |                                 |        |
| PV1        | 8        |          | XCN       | O        | [0..1]        | 0010        | 00138        | Referring Doctor          |                                 |        |
| PV1        | 9        |          | XCN       | O        | [0..1]        | 0010        | 00139        | Consulting Doctor         |                                 |        |
| PV1        | 10       | 3        | IS        | O        | [0..1]        | 0069        | 00140        | Hospital Service          |                                 |        |
| PV1        | 11       |          | PL        | O        | [0..1]        |             | 00141        | Temporary Location        |                                 |        |
| PV1        | 12       | 2        | IS        | O        | [0..1]        | 0087        | 00142        | Preadmit Test Indicator   |                                 |        |
| PV1        | 13       | 2        | IS        | O        | [0..1]        | 0092        | 00143        | Re-admission Indicator    |                                 |        |
| PV1        | 14       | 6        | IS        | O        | [0..1]        | 0023        | 00144        | Admit Source              |                                 |        |
| PV1        | 15       | 2        | IS        | O        | [0..1]        | 0009        | 00145        | Ambulatory Status         |                                 |        |
| PV1        | 16       | 2        | IS        | O        | [0..1]        | 0099        | 00146        | VIP Indicator             |                                 |        |
| PV1        | 17       |          | XCN       | O        | [0..1]        | 0010        | 00147        | Admitting Doctor          |                                 |        |
| PV1        | 18       | 2        | IS        | O        | [0..1]        | 0018        | 00148        | Patient Type              |                                 |        |
| PV1        | 19       |          | CX        | O        | [0..1]        |             | 00149        | Visit Number              |                                 |        |
| PV1        | 20       |          | FC        | RE       | [1..*]        | 0064        | 00150        | Financial Class           | VFC Status                      | Y      |
| PV1        | 21       | 2        | IS        | O        | [0..1]        | 0032        | 00151        | Charge Price Indicator    |                                 |        |
| PV1        | 22       | 2        | IS        | O        | [0..1]        | 0045        | 00152        | Courtesy Code             |                                 |        |
| PV1        | 23       | 2        | IS        | O        | [0..1]        | 0046        | 00153        | Credit Rating             |                                 |        |
| PV1        | 24       | 2        | IS        | O        | [0..1]        | 0044        | 00154        | Contract Code             |                                 |        |
| PV1        | 25       | 8        | DT        | O        | [0..1]        |             | 00155        | Contract Effective Date   |                                 |        |
| PV1        | 26       | 12       | NM        | O        | [0..1]        |             | 00156        | Contract Amount           |                                 |        |
| PV1        | 27       | 3        | NM        | O        | [0..1]        |             | 00157        | Contract Period           |                                 |        |
| PV1        | 28       | 2        | IS        | O        | [0..1]        | 0073        | 00158        | Interest Code             |                                 |        |
| PV1        | 29       | 4        | IS        | O        | [0..1]        | 0110        | 00159        | Transfer to Bad Debt Code |                                 |        |
| PV1        | 30       | 8        | DT        | O        | [0..1]        |             | 00160        | Transfer to Bad Debt Date |                                 |        |
| PV1        | 31       | 10       | IS        | O        | [0..1]        | 0021        | 00161        | Bad Debt Agency Code      |                                 |        |
| PV1        | 32       | 12       | NM        | O        | [0..1]        |             | 00162        | Bad Debt Transfer Amount  |                                 |        |
| PV1        | 33       | 12       | NM        | O        | [0..1]        |             | 00163        | Bad Debt Recovery Amount  |                                 |        |
| PV1        | 34       | 1        | IS        | O        | [0..1]        | 0111        | 00164        | Delete Account Indicator  |                                 |        |
| PV1        | 35       | 8        | DT        | O        | [0..1]        |             | 00165        | Delete Account Date       |                                 |        |
| PV1        | 36       | 3        | IS        | O        | [0..1]        | 0112        | 00166        | Discharge Disposition     |                                 |        |
| PV1        | 37       |          | DLD       | O        | [0..1]        | 0113        | 00167        | Discharged to Location    |                                 |        |
| PV1        | 38       |          | CE        | O        | [0..1]        | 0114        | 00168        | Diet Type                 |                                 |        |
| PV1        | 39       | 2        | IS        | O        | [0..1]        | 0115        | 00169        | Servicing Facility        |                                 |        |

Patient Visit Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name              | Comments | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|---------------------------|----------|--------|
| PV1     | 40    | 1      | IS   | O       | [0..1] | 0116  | 00170  | Bed Status                |          |        |
| PV1     | 41    | 2      | IS   | O       | [0..1] | 0117  | 00171  | Account Status            |          |        |
| PV1     | 42    |        | PL   | O       | [0..1] |       | 00172  | Pending Location          |          |        |
| PV1     | 43    |        | PL   | O       | [0..1] |       | 00173  | Prior Temporary Location  |          |        |
| PV1     | 44    |        | TS   | O       | [0..1] |       | 00174  | Admit Date/Time           |          |        |
| PV1     | 45    |        | TS   | O       | [0..1] |       | 00175  | Discharge Date/Time       |          |        |
| PV1     | 46    | 12     | NM   | O       | [0..1] |       | 00176  | Current Patient Balance   |          |        |
| PV1     | 47    | 12     | NM   | O       | [0..1] |       | 00177  | Total Charges             |          |        |
| PV1     | 48    | 12     | NM   | O       | [0..1] |       | 00178  | Total Adjustments         |          |        |
| PV1     | 49    | 12     | NM   | O       | [0..1] |       | 00179  | Total Payments            |          |        |
| PV1     | 50    |        | CX   | O       | [0..1] | 0203  | 00180  | Alternate Visit ID        |          |        |
| PV1     | 51    | 1      | IS   | O       | [0..1] | 0326  | 01226  | Visit Indicator           |          |        |
| PV1     | 52    |        | XCN  | O       | [0..1] | 0010  | 01274  | Other Healthcare Provider |          |        |

Next of Kin / Associated Parties Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table     | ITEM # | Element Name                                     | Comments   | Mapped |
|---------|-------|--------|------|---------|--------|-----------|--------|--|--|--------|
| NK1     | 1     | 4      | SI   | R       | [1..1] |           | 00190  | Set ID- NK1                                      |  | Y      |
| NK1     | 2     |        | XPN  | R       | [1..*] |           | 00191  | Name   | The first instance is the legal name and is required.                            | Y      |
| NK1     | 3     |        | CE   | R       | [1..1] | 0063      | 00192  | Relationship                                     |  | Y      |
| NK1     | 4     |        | XAD  | RE      | [0..*] |           | 00193  | Address  | The first instance shall be the primary address. Is required if PID.11 is empty. | Y      |
| NK1     | 5     |        | XTN  | RE      | [0..*] |           | 00194  | Phone Number                                     | The first instance shall be the primary phone number.                            | Y      |
| NK1     | 6     |        | XTN  | O       | [0..*] |           | 00195  | Business Phone Number                            |  | Y      |
| NK1     | 7     |        | CE   | O       | [0..1] | 0131      | 00196  | Contact Role                                     |  |        |
| NK1     | 8     | 8      | DT   | O       | [0..1] |           | 00197  | Start Date                                       |  |        |
| NK1     | 9     | 8      | DT   | O       | [0..1] |           | 00198  | End Date   |  |        |
| NK1     | 10    | 60     | ST   | O       | [0..1] |           | 00199  | Next of Kin / Associated Parties Job Title       |  |        |
| NK1     | 11    |        | JCC  | O       | [0..1] | 0327 0328 | 00200  | Next of Kin / Associated Parties Job Code/Class  |  |        |
| NK1     | 12    |        | CX   | O       | [0..1] |           | 00201  | Next of Kin / Associated Parties Employee Number |  |        |
| NK1     | 13    |        | XON  | O       | [0..1] |           | 00202  | Organization Name - NK1                          |  |        |
| NK1     | 14    |        | CE   | O       | [0..1] | 0002      | 00119  | Marital Status                                   |  |        |
| NK1     | 15    | 1      | IS   | O       | [0..1] | 0001      | 00111  | Administrative Sex                               |  | Y      |
| NK1     | 16    |        | TS   | O       | [0..1] |           | 00110  | Date/Time of Birth                               |  | Y      |
| NK1     | 17    | 2      | IS   | O       | [0..1] | 0223      | 00755  | Living Dependency                                |  |        |
| NK1     | 18    | 2      | IS   | O       | [0..1] | 0009      | 00145  | Ambulatory Status                                |  |        |
| NK1     | 19    |        | CE   | O       | [0..1] | 0171      | 00129  | Citizenship                                      |  |        |
| NK1     | 20    |        | CE   | O       | [0..1] | 0296      | 00118  | Primary Language                                 |  | Y      |
| NK1     | 21    | 2      | IS   | O       | [0..1] | 0220      | 00742  | Living Arrangement                               |  |        |
| NK1     | 22    |        | CE   | O       | [0..1] | 0215      | 00743  | Publicity Code                                   |  |        |
| NK1     | 23    | 1      | ID   | O       | [0..1] | 0136      | 00744  | Protection Indicator                             |  | O      |
| NK1     | 24    | 2      | IS   | O       | [0..1] | 0231      | 00745  | Student Indicator                                |  |        |
| NK1     | 25    |        | CE   | O       | [0..1] | 0006      | 00120  | Religion   |  |        |
| NK1     | 26    |        | XPN  | O       | [0..1] |           | 00746  | Mother'S Maiden Name                             |  | Y      |
| NK1     | 27    |        | CE   | O       | [0..1] | 0212      | 00739  | Nationality                                      |  | Y      |
| NK1     | 28    |        | CE   | O       | [0..1] | 0189      | 00125  | Ethnic Group                                     |  |        |
| NK1     | 29    |        | CE   | O       | [0..1] | 0222      | 00747  | Contact Reason                                   |  |        |

Next of Kin / Associated Parties Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                      | Comments | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------------|----------|--------|
| NK1     | 30    |        | XPN  | O       | [0..1] |       | 00748  | Contact Person's Name             |          |        |
| NK1     | 31    |        | XTN  | O       | [0..1] |       | 00749  | Contact Person's Telephone Number |          |        |
| NK1     | 32    |        | XAD  | O       | [0..1] |       | 00750  | Contact Person's Address          |          |        |
| NK1     | 33    |        | CX   | O       | [0..1] |       | 00751  | Next of Kin/AP's Identifier       |          |        |
| NK1     | 34    | 2      | IS   | O       | [0..1] | 0311  | 00752  | Job Status                        |          |        |
| NK1     | 35    |        | CE   | O       | [0..1] | 0005  | 00113  | Race                              |          | Y      |
| NK1     | 36    | 2      | IS   | O       | [0..1] | 0295  | 00753  | Handicap                          |          |        |
| NK1     | 37    | 16     | ST   | O       | [0..1] |       | 00754  | Contact Person Social Security #  |          |        |
| NK1     | 38    |        | ST   | O       | [0..1] |       | 01905  | Next of Kin Birth Place           |          | O      |
| NK1     | 39    | 2      | IS   | O       | [0..1] | 0099  | 00146  | VIP Indicator                     |          |        |

Common Order Segment (v2.5.1 required)

| Segment | Field | Length | Type | Req/Opt | RP/# | Table | ITEM # | Element Name                     | Comments   | Mapped |
|---------|-------|--------|------|---------|------|-------|--------|----------------------------------|--|--------|
| ORC     | 1     | 2      | ID   | R       |      | 0119  | 00215  | Order Control                    | use RE   |        |
| ORC     | 2     |        | EI   | RE      |      |       | 00216  | Placer Order Number              |  |        |
| ORC     | 3     |        | EI   | R       |      |       | 00217  | Filler Order Number              | Filler Order Number SHOULD be the unique immunization ID of the sending system. See appendix C for usage.                                      | Y      |
| ORC     | 4     |        | EI   | O       |      |       | 00218  | Placer Group Number              |  |        |
| ORC     | 5     | 2      | ID   | O       |      | 0038  | 00219  | Order Status                     |  |        |
| ORC     | 6     | 1      | ID   | O       |      | 0121  | 00220  | Response Flag                    |  |        |
| ORC     | 7     |        | TQ   | X       |      |       | 00221  | Quantity/Timing                  |  |        |
| ORC     | 8     |        | EIP  | O       |      |       | 00222  | Parent                           |  |        |
| ORC     | 9     |        | TS   | O       |      |       | 00223  | Date/Time of Transaction         |  |        |
| ORC     | 10    |        | XCN  | RE      |      |       | 00224  | Entered By                       | This is the person that entered this immunization record into the system.  |        |
| ORC     | 11    |        | XCN  | O       |      |       | 00225  | Verified By                      |  |        |
| ORC     | 12    |        | XCN  | RE      |      |       | 00226  | Ordering Provider                | This is the provider ordering the immunization. It is expected to be empty if the immunization record is transcribed from a historical record. |        |
| ORC     | 13    |        | PL   | O       |      |       | 00227  | Enterer's Location               |  |        |
| ORC     | 14    |        | XTN  | O       |      |       | 00228  | Call Back Phone Number           |  |        |
| ORC     | 15    |        | TS   | O       |      |       | 00229  | Order Effective Date/Time        |  |        |
| ORC     | 16    |        | CE   | O       |      |       | 00230  | Order Control Code Reason        |  |        |
| ORC     | 17    |        | CE   | O       |      |       | 00231  | Entering Organization            | This is the provider organization that entered this record/order.  |        |
| ORC     | 18    |        | CE   | O       |      |       | 00232  | Entering Device                  |  |        |
| ORC     | 19    |        | XCN  | O       |      |       | 00233  | Action By                        |  |        |
| ORC     | 20    |        | CE   | O       |      | 0339  | 01310  | Advanced Beneficiary Notice Code |  |        |
| ORC     | 21    |        | XON  | O       |      |       | 01311  | Ordering Facility Name           |  |        |
| ORC     | 22    |        | XAD  | O       |      |       | 01312  | Ordering Facility Address        |  |        |
| ORC     | 23    |        | XTN  | O       |      |       | 01313  | Ordering Facility Phone Number   |  |        |

Common Order Segment (v2.5.1 required)

| Segment | Field | Length | Type | Req/Opt | RP/# | Table | ITEM # | Element Name                                   | Comments | Mapped |
|---------|-------|--------|------|---------|------|-------|--------|--|----------|--------|
| ORC     | 24    |        | XAD  | O       |      |       | 01314  | Ordering Provider Address                      |          |        |
| ORC     | 25    |        | CWE  | O       |      |       | 01473  | Order Status Modifier                          |          |        |
| ORC     | 26    |        | CWE  | O       |      | 0552  | 01641  | Advanced Beneficiary<br>Notice Override Reason |          |        |
| ORC     | 27    |        | TS   | O       |      |       | 01642  | Filler's Expected<br>Availability Date/Time    |          |        |
| ORC     | 28    |        | CWE  | O       |      | 0177  | 00615  | Confidentiality Code                           |          |        |
| ORC     | 29    |        | CWE  | O       |      | 0482  | 01643  | Order Type                                     |          |        |
| ORC     | 30    |        | CNE  | O       |      | 0483  | 01644  | Enterer Authorization<br>Mode                  |          |        |
| ORC     | 31    |        | CWE  | O       |      |       | 02286  | Parent Universal Service<br>Identifier         |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |
|         |       |        |      |         |      |       |        |  |          |        |

## Original-Style Query Definition

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name          | Comment | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------|---------|--------|
| QAK     | 1     | 32     | ST   | R       | [1..1] |       | 00696  | Query Tag             |         |        |
| QAK     | 2     |        | ID   | O       | [0..1] | 0208  | 00708  | Query Response Status |         |        |
| QAK     | 3     | 2      | CE   | O       | [0..1] | 0471  | 01375  | Message Query Name    |         |        |
| QAK     | 4     | 10     | NM   | O       | [0..1] |       | 01434  | Hit Count             |         |        |
| QAK     | 5     | 10     | NM   | O       | [0..1] |       | 01622  | This Payload          |         |        |
| QAK     | 6     | 10     | NM   | O       | [0..1] |       | 01623  | Hits Remaining        |         |        |

v2.5.1



Query Parameter Definition

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                | Comment                                  | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------|--|--------|
| QPD     | 1     |        | CE   | R       | [1..1] | 0471  | 01375  | Message Query Name          | Z34^Request Immunization History^HL70471 |        |
| QPD     | 2     | 32     | ST   |         |        |       | 00696  | Query Tag                   |  |        |
| QPD     | 3     |        | CX   | RE      | [0..*] |       |        | Patientlist                 | PID-3: Patient Identifier List           | Y      |
| QPD     | 4     |        | XPN  | RE      | [0..1] |       |        | Patientname                 | PID-5: Patient Name                      | Y      |
| QPD     | 5     |        | XPN  | RE      | [0..1] |       |        | Patientmothermaidenname     | PID-6: Mother'S Maiden Name              | Y      |
| QPD     | 6     | 26     | TS   | RE      | [0..1] |       |        | Patient Date of Birth       | PID-7: Patient Date of Birth             | Y      |
| QPD     | 7     | 1      | IS   | RE      | [0..1] |       |        | Patient Sex                 | PID-8: Patient Sex                       | Y      |
| QPD     | 8     |        | XAD  | RE      | [0..1] |       |        | Patient Address             | PID-11: Patient Address                  | Y      |
| QPD     | 9     |        | XTN  | RE      | [0..1] |       |        | Patient Home Phone          | PID-13: Patient Home Phone               | Y      |
| QPD     | 10    | 1      | ID   | RE      | [0..1] |       |        | Multiple Birth Indicator    | PID-24: Multiple Birth Indicator         | Y      |
| QPD     | 11    | 2      | NM   | RE      | [0..1] |       |        | Patient Birth Order         | PID-25: Patient Birth Order              | Y      |
| QPD     | 12    |        | TS   | RE      | [0..1] |       |        | Client Last Updated Date    | PID-33: Patient Last Update Date         | Y      |
| QPD     | 13    |        | HD   | RE      | [0..1] |       |        | Client Last Update Facility | PID-34: Patient Last Update Facility     | Y      |

Patient List QPD-3

| ID | ID Type              |
|----|----------------------|
| SS | SS#                  |
| MA | Medicaid ID          |
| MC | Medicare ID          |
| BR | Birth Certificate ID |
| CH | Chart ID             |
| PT | Site Patient ID      |
| PI | ICARE Patient ID     |

v2.5.1

## Original-Style Query Definition

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                | Comment                  | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------|--------------------------|--------|
| QRD     | 1     | 26     | TS   | R       | [1..1] |       | 00025  | Query Date/Time             |                          |        |
| QRD     | 2     | 1      | ID   | R       | [1..1] |       | 00026  | Query Format Code           |                          |        |
| QRD     | 3     | 1      | ID   | R       | [1..1] |       | 00027  | Query Priority              |                          |        |
| QRD     | 4     | 10     | ST   | R       | [1..1] |       | 00028  | Query ID                    |                          |        |
| QRD     | 5     | 1      | ID   | O       | [0..1] |       | 00029  | Deferred Response Type      |                          |        |
| QRD     | 6     | 26     | TS   | O       | [0..1] |       | 00030  | Deferred Response Date/Time |                          |        |
| QRD     | 7     | 10     | CQ   | R       | [1..1] |       | 00031  | Quantity Limited Request    | 25^RD                    | Y      |
| QRD     | 8     | 250    | XCN  | R       | [1..1] |       | 00032  | Who Subject Filter          |                          | Y      |
| QRD     | 8.1   |        | ST   |         | [0..1] |       |        | ID Number                   |                          | Y      |
| QRD     | 8.2   |        | ST   |         | [0..1] |       |        | Patient Last Name           |                          | Y      |
| QRD     | 8.3   |        | ST   |         | [0..1] |       |        | Patient First Name          |                          | Y      |
| QRD     | 8.4   |        | ST   |         | [0..1] |       |        | Patient Middle Name         |                          | Y      |
| QRD     | 9     | 250    | CE   | R       | [1..1] |       | 00033  | What Subject Filter         | VXI^VACCINE INFO^HL70048 | Y      |
| QRD     | 10    | 250    | CE   | R       | [1..1] |       | 00034  | What Department Data Code   |                          |        |
| QRD     | 11    | 20     | VR   | O       | [0..1] |       | 00035  | What Data Code Value Qual.  |                          |        |
| QRD     | 12    | 1      | ID   | O       | [0..1] |       | 00036  | Query Results Level         |                          |        |

v2.3.1

## Original-Style Query Definition

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                      | Comment | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------------|---------|--------|
| QRF     | 1     | 20     | ST   | R       | [1..*] |       | 00037  | Where Subject Filter              |         |        |
| QRF     | 2     | 26     | TS   | O       | [0..1] |       | 00038  | When Data Start Date/Time         |         |        |
| QRF     | 3     | 26     | TS   | O       | [0..1] |       | 00039  | When Data End Date/Time           |         |        |
| QRF     | 4     | 60     | ST   | O       | [0..*] |       | 00040  | What User Qualifier               |         |        |
| QRF     | 5     |        | ST   | RE      | [0..1] |       | 00041  | Other QRY Subject Filter          |         | Y      |
| QRF     | 5.1   |        | ST   |         | [0..1] |       |        | Patient Social Security Number    |         | Y      |
| QRF     | 5.2   |        | DT   |         | [0..1] |       |        | Patient Birth Date                |         | Y      |
| QRF     | 5.3   |        | ID   |         | [0..1] |       |        | Patient Birth State               |         |        |
| QRF     | 5.4   |        | ST   |         | [0..1] |       |        | Patient Birth Registration Number |         | Y      |
| QRF     | 5.5   |        | ST   |         | [0..1] |       |        | Patient Medicaid Number           |         | Y      |
| QRF     | 5.6   |        | PN   |         | [0..1] |       |        | Mother's Name Last^First^Middle   |         |        |
| QRF     | 5.7   |        | ST   |         | [0..1] |       |        | Mother's Maiden Name              |         | Y      |
| QRF     | 5.8   |        | ST   |         | [0..1] |       |        | Mother's Social Security Number   |         |        |
| QRF     | 5.9   |        | PN   |         | [0..1] |       |        | Father's Name Last^First^Middle   |         |        |
| QRF     | 5.10  |        | ST   |         | [0..1] |       |        | Father's Social Security Number   |         |        |
| QRF     | 6     | 12     | ID   | O       | [0..*] | 0156  | 00042  | Which Date/Time Qualifier         |         |        |
| QRF     | 7     | 12     | ID   | O       | [0..*] | 0157  | 00043  | Which Date/Time Status Qualifier  |         |        |
| QRF     | 8     | 12     | ID   | O       | [0..*] | 0158  | 00044  | Date/Time Selection Qualifier     |         |        |
| QRF     | 9     | 60     | TQ   | O       | [0..1] |       | 00694  | When Quantity/Timing Qualifier    |         |        |

v2.3.1

Error Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                | Comment  | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------|--|--------|
| ERR     | 1     |        | ELD  | X       | [0..0] |       | 00024  | Error Code and Location     | Not supported for Version 2.5 and above.   |        |
| ERR     | 2     | 18     | ERL  | RE      | [0..1] |       | 01812  | Error Location              | If an error involves the entire message (e.g. the message is not parse-able.) then location has no meaning. In this case, the field is left empty. |        |
| ERR     | 3     |        | CWE  | R       | [1..1] | 0357  | 01813  | HL7 Error Code              |  |        |
| ERR     | 4     | 2      | ID   | R       | [1..1] | 0516  | 01814  | Severity                    |  |        |
| ERR     | 5     |        | CWE  | O       | [0..1] | 0533  | 01815  | Application Error Code      |  |        |
| ERR     | 6     | 80     | ST   | O       | [0..1] |       | 01816  | Application Error Parameter |  |        |
| ERR     | 7     | 2048   | TX   | O       | [0..1] |       | 01817  | Diagnostic Information      |  |        |
| ERR     | 8     | 250    | TX   | O       | [0..1] |       | 01818  | User Message                | This field may contain free text that may be displayed to a user. It is not intended for any further processing.                                   |        |
| ERR     | 9     | 20     | IS   | O       | [0..1] | 0517  | 01819  | Inform Person Indicator     |  |        |
| ERR     | 10    |        | CWE  | O       | [0..1] | 0518  | 01820  | Override Type               |  |        |
| ERR     | 11    |        | CWE  | O       | [0..1] | 0519  | 01821  | Override Reason Code        |  |        |

v2.5.1

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name            | Comment | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-------------------------|---------|--------|
| ERR     | 1     | 80     | CM   | R       | [1..*] | 0357  | 00024  | Error Code and Location |         |        |

v2.3.1

Response Control Parameter

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                | Comment   | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|-----------------------------|---|--------|
| RCP     | 1     | 1      | ID   | O       | [0..1] | 0091  | 00027  | Query Priority              | Constrain to null or I. Immediate priority is expected. |        |
| RCP     | 2     |        | CQ   | O       | [0..1] | 0126  | 00031  | Quantity Limited Request    | 25^RD^HL70126   |        |
| RCP     | 3     |        | CE   | O       | [0..1] | 0394  | 01440  | Response Modality           | R^real-time^HL70394                                     |        |
| RCP     | 4     |        | TS   | O       | [0..1] |       | 01441  | Execution and Delivery Time |   |        |
| RCP     | 5     | 1      | ID   | O       | [0..1] | 0395  | 01443  | Modify Indicator            |   |        |
| RCP     | 6     |        | SRT  | O       | [0..1] |       | 01624  | Sort-by Field               |   |        |
| RCP     | 6     |        | ID   | O       | [0..*] |       | 01594  | Segment Group Inclusion     |   |        |

v2.5.1

## Pharmacy/Treatment Administration Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table    | ITEM # | Element Name                      | Comments  | Mapped |
|---------|-------|--------|------|---------|--------|----------|--------|-----------------------------------|---|--------|
| RXA     | 1     | 4      | NM   | R       | [1..1] |          | 00342  | Give Sub-ID Counter               | Constrain to 0 (zero)   |        |
| RXA     | 2     | 4      | NM   | R       | [1..1] |          | 00344  | Administration Sub-ID Counter     | Constrain to 1.   |        |
| RXA     | 3     |        | TS   | R       | [1..1] |          | 00345  | Date/Time Start of Administration |   | Y      |
| RXA     | 4     |        | TS   | RE      | [0..1] |          | 00346  | Date/Time End of Administration   | If populated, this should be the same as start time (RXA-3)   | Y      |
| RXA     | 5     |        | CE   | R       | [1..1] | 0292     | 00347  | Administered Code                 | CVX code is strongly preferred.   | Y      |
| RXA     | 6     | 20     | NM   | R       | [1..1] |          | 00348  | Administered Amount               | If administered amount is not recorded, use 999.  |        |
| RXA     | 7     |        | CE   | C(R/O)  | [0..1] |          | 00349  | Administered Units                | If previous field is populated by any value except 999, it is required.   |        |
| RXA     | 8     |        | CE   | O       | [0..1] |          | 00350  | Administered Dosage Form          |   |        |
| RXA     | 9     |        | CE   | C(R/O)  | [0..1] | NIP 0001 | 00351  | Administration Notes              | Constrained to one repetition. This repetition is intended for conveying if this immunization record is based on a historical record or was given by the provider recording the immunization.<br>00=Administered<br>01=Historical | Y      |
| RXA     | 10    |        | XCN  | RE      | [0..1] |          | 00352  | Administering Provider            | This is the administering provider not necessarily the person who gave the shot.  | Y      |
| RXA     | 11    |        | LA2  | RE      | [0..1] |          | 00353  | Administered-at Location          |   | Y      |
| RXA     | 12    | 20     | ST   | O       | [0..1] |          | 00354  | Administered Per (Time Unit)      |   |        |
| RXA     | 13    | 20     | NM   | O       | [0..1] |          | 01134  | Administered Strength             |   |        |
| RXA     | 14    |        | CE   | O       | [0..1] |          | 01135  | Administered Strength Units       |   |        |
| RXA     | 15    | 20     | ST   | C(R/O)  | [0..*] |          | 01129  | Substance Lot Number              |   | Y      |
| RXA     | 16    |        | ST   | C(RE/O) | [0..1] |          | 01130  | Substance Expiration Date         | If the lot number is not null, this field should be valued.   |        |
| RXA     | 17    |        | CE   | C(R/O)  | [0..*] | 0227     | 01131  | Substance Manufacturer Name       |   | Y      |
| RXA     | 18    |        | CE   | C(R/X)  | [0..*] |          | 01136  | Substance Refusal Reason          | If the completion status is RE, then this shall be populated.   |        |
| RXA     | 19    |        | CE   | O       | [0..1] |          | 01123  | Indication                        |   |        |

Pharmacy/Treatment Administration Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                            | Comments   | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|---|--|--------|
| RXA     | 20    | 2      | ID   | RE      | [0..1] | 0322  | 01223  | Completion Status                       | If this field is not populated, it is assumed to be CP or complete. If the Refusal reason is populated, this field shall be set to RE. |        |
| RXA     | 21    | 2      | ID   | RE      | [0..1] | 0323  | 01224  | Action Code-RXA                         | D=Mark for deletion  | Y      |
| RXA     | 22    |        | TS   | O       | [0..1] |       | 01225  | System Entry Date/Time                  |  |        |
| RXA     | 23    | 5      | NM   | O       | [0..1] |       | 01696  | Administered Drug Strength Volume       |  |        |
| RXA     | 24    |        | CWE  | O       | [0..1] |       | 01697  | Administered Drug Strength Volume Units |  |        |
| RXA     | 25    |        | CWE  | O       | [0..1] |       | 01698  | Administered Barcode Identifier         |  |        |
| RXA     | 26    | 1      | ID   | O       | [0..1] | 480   | 01699  | Pharmacy Order Type                     |  |        |

Pharmacy/Treatment Route Segment

| Segment | Field | Length | Type | Req/Opt | RP/#   | Table | ITEM # | Element Name                 | Comments | Mapped |
|---------|-------|--------|------|---------|--------|-------|--------|------------------------------|----------|--------|
| RXR     | 1     |        | CE   | R       | [1..1] | 0162  | 00309  | Route                        |          | Y      |
| RXR     | 2     |        | CWE  | RE      | [0..1] | 0163  | 00310  | Administration Site          |          | Y      |
| RXR     | 3     |        | CE   | O       | [0..1] | 0164  | 00311  | Administration Device        |          |        |
| RXR     | 4     |        | CWE  | O       | [0..1] | 0165  | 00312  | Administration Method        |          |        |
| RXR     | 5     |        | CE   | O       | [0..1] |       | 01315  | Routing instructions         |          |        |
| RXR     | 6     |        | CWE  | O       | [0..1] | 0495  | 01670  | Administration Site Modifier |          |        |



Observation/Result Segment

| Segment | Field | Length | Type   | Req/Opt | RP/#   | Table | ITEM # | Element Name                                | Comments   | Mapped |
|---------|-------|--------|--------|---------|--------|-------|--------|---|--|--------|
| OBX     | 1     | 4      | SI     | R       | [1..1] |       | 00569  | Set ID - OBX                                |  |        |
| OBX     | 2     | 2      | ID     | R       | [1..1] | 0125  | 00570  | Value Type                                  | CE,NM,ST,DT,or TS  | Y      |
| OBX     | 3     |        | CE     | R       | [1..1] |       | 00571  | Observation Identifier                      | Indicates observation.<br>Answered by OBX-5. See<br>appendix G & H for<br>Funding and Financial<br>Rules | Y      |
| OBX     | 4     | 20     | ST     | RE      | [1..1] |       | 00572  | Observation Sub-ID                          |  |        |
| OBX     | 5     |        | Varies | R       | [1..1] |       | 00573  | Observation Value                           | Observation value,<br>answers the question<br>posed by OBX-3.  | Y      |
| OBX     | 6     |        | CE     | C(R/RE) | [0..1] |       | 00574  | Units                                       | If the observation in OBX-5<br>requires an indication of<br>the units, they are placed<br>here.          |        |
| OBX     | 7     |        | ST     | O       | [0..1] |       | 00575  | Reference Ranges                            |  |        |
| OBX     | 8     |        | IS     | O       | [0..1] | 0078  | 00576  | Abnormal Flags                              |  |        |
| OBX     | 9     |        | NM     | O       | [0..1] |       | 00577  | Probability                                 |  |        |
| OBX     | 10    |        | ID     | O       | [0..1] | 0080  | 00578  | Nature of Abnormal Test                     |  |        |
| OBX     | 11    |        | ID     | R       | [1..1] | 0085  | 00579  | Observ Result Status                        | Constrain to F.  |        |
| OBX     | 12    |        | TS     | O       | [0..1] |       | 00580  | Effective Date of Reference Range<br>Values |  |        |
| OBX     | 13    | 20     | ST     | O       | [0..1] |       | 00581  | User Defined Access Checks                  |  |        |
| OBX     | 14    |        | TS     | R       | [1..1] |       | 00582  | Date/Time of the Observation                |  |        |
| OBX     | 15    |        | CE     | O       | [0..1] |       | 00583  | Producer's ID                               |  |        |
| OBX     | 16    |        | XCN    | O       | [0..1] |       | 00584  | Responsible Observer                        |  |        |
| OBX     | 17    |        | CE     | C(R/O)  | [0..1] |       | 00936  | Observation Method                          |  |        |
| OBX     | 18    |        | EI     | O       | [0..1] |       | 01479  | Equipment Instance Identifier               |  |        |
| OBX     | 19    |        | TS     | O       | [0..1] |       | 01480  | Date/Time of the Analysis                   |  |        |
| OBX     | 20    |        |        | O       | [0..1] |       |        | Reserved for Harmonization With V2.6        |  |        |
| OBX     | 21    |        |        | O       | [0..1] |       |        | Reserved for Harmonization With V2.6        |  |        |
| OBX     | 22    |        |        | O       | [0..1] |       |        | Reserved for Harmonization With V2.6        |  |        |
| OBX     | 23    |        | XON    | O       | [0..1] |       | 02283  | Performing Organization Name                |  |        |
| OBX     | 24    |        | XAD    | O       | [0..1] |       | 02284  | Performing Organization Address             |  |        |
| OBX     | 25    |        | XCN    | O       | [0..1] |       | 02285  | Performing Organization Medical<br>Director |  |        |

## Notes and Comments Segment

| Segment    | Field    | Length       | Type      | Req/Opt  | RP/#          | Table | ITEM #       | Element Name      | Comments | Mapped |
|------------|----------|--------------|-----------|----------|---------------|-------|--------------|-------------------|----------|--------|
| NTE        | 1        | 4            | SI        | O        | [0..1]        |       | 00096        | Set ID-NTE        |          |        |
| NTE        | 2        | 8            | ID        | O        | [0..1]        | 0105  | 00097        | Source Of Comment |          |        |
| <b>NTE</b> | <b>3</b> | <b>65536</b> | <b>FT</b> | <b>R</b> | <b>[1..1]</b> |       | <b>00098</b> | <b>Comment</b>    |          | Y      |
| NTE        | 4        | 250          | CE        | O        | [0..1]        | 0364  | 01318        | Comment Type      |          |        |

Role Segment

| Segment    | Field    | Length     | Type      | Req/Opt  | RP/# | Table       | ITEM #       | Element Name                   | Comment | Mapped |
|------------|----------|------------|-----------|----------|------|-------------|--------------|--------------------------------|---------|--------|
| ROL        | 1        | 60         | EI        | C        |      |             | 01206        | Role Instance ID               |         |        |
| <b>ROL</b> | <b>2</b> | <b>2</b>   | <b>ID</b> | <b>R</b> |      | <b>0287</b> | <b>00816</b> | <b>Action Code</b>             |         |        |
| <b>ROL</b> | <b>3</b> | <b>250</b> | <b>CE</b> | <b>R</b> |      | <b>0443</b> | <b>01197</b> | <b>Role-ROL</b>                |         |        |
| ROL        | 4        | 250        | XCN       | R        | Y    |             | 01198        | Role Person                    |         |        |
| ROL        | 5        | 26         | TS        | O        |      |             | 01199        | Role Begin Date/Time           |         |        |
| ROL        | 6        | 26         | TS        | O        |      |             | 01200        | Role End Date/Time             |         |        |
| ROL        | 7        | 250        | CE        | O        |      |             | 01201        | Role Duration                  |         |        |
| ROL        | 8        | 250        | CE        | O        |      |             | 01205        | Role Action Reason             |         |        |
| ROL        | 9        | 250        | CE        | O        | Y    |             | 01510        | Provider Type                  |         |        |
| ROL        | 10       | 250        | CE        | O        |      | 0406        | 01461        | Organization Unit Type         |         |        |
| ROL        | 11       | 250        | XAD       | O        | Y    |             | 00679        | Office/Home Address/Birthplace |         |        |
| ROL        | 12       | 250        | XTN       | O        | Y    |             | 00678        | Phone                          |         |        |

| HL7 Table 0287 – Problem/goal action code |             |         |
|---|-------------|---------|
| Value                                     | Description | Comment |
| AD  | ADD         |         |
| CO  | CORRECT     |         |
| DE  | DELETE      |         |
| LI  | LINK        |         |
| UC  | UNCHANGED * |         |
| UN  | UNLINK      |         |
| UP  | UPDATE      |         |

**ICARE process to insert/update patients:**

**Key fields:**

PID-3 – Patient ID List

MSH-4 – Site ID

First ID in PID.3 list must be an unique Site Identifier for inserted/updated patient.

I-CARE will keep an unique Patient Identifier MSH-4 + PID-3.1 to identify this patient in the future.

**I-CARE process to identify trade and generic vaccine names:**

**Key fields:**

RXA-5 – Administered CVX Code

RXA-17 – Manufacturer Code

I-CARE will try to find **trade** vaccine RXA-5 + RXA-17. If no trade vaccine is found, use RXA-5 to find **generic** vaccine for a particular CVX code.

|  |
|--|
| <b>I-CARE process to insert/update/delete shots:</b> |
|--|

**Key fields:**

PID-3 – Patient ID

ORC-3 – Shot Unique identifier – 16 characters free text ^ Site ID (optional) (available in HL7 ver. 2.5.1 only)

RXA-3 – Administered Date

RXA-5 – Administered Code – CVX code

RXA-11 – Facility – Facility ID, Name and Address

RXA-21 – Action code-RXA

MSH-4 – Site ID – HL7 site ID, assigned by I-CARE

Use RXA-11 if RXA-11 is not empty, otherwise use MSH.4

1. ORC-3 is not empty
  - a. ORC-3 belongs to I-CARE (example – 9999999^ICARE) – skip the shot.
  - b. ORC-3 does not belong to I-CARE (example – 9999999)

Search for shot in I-CARE by PID-3 + RXA-11/MSH-4 + ORC-3.  
 If found the shot, update existing record, go to the end.  
 If did not find the shot, go to step 3.
2. ORC-3 is empty go to step 3.
3. Search for shot in I-CARE by PID-3 + RXA-11/MSH-4 + RXA-5 + RXA-3.  
 If found the shot, update existing record.  
 If did not find the shot, insert new record (including ORC.3 if ORC.3 is not empty).

RXA-21 is ignored unless RXA-21 = “D”. In this case I-CARE updates or inserts this shot as a “MARK FOR DELETION” shot.

If a site does not use ORC-3 and wants to update the shot administered code or administered date:

1. Site must send 2 RXA records: First record with RXA-21=“D” (mark existing record for deletion) and second record with new administered code and/or administered date.
2. OR after updating existing shot through the HL7 interface (I-CARE will add a new shot into I-CARE with a new administered code and/or administered date), the site needs to use the I-CARE web interface to delete a shot with an old administered code and/or administered date.

**Minimum Required v2.5.1**

```
MSH|^~\&|77700001||20110310113157|VXU^V04^VXU_V04|MSG00001|P|2.5.1|||||
PID|1|12345678^^^MR|JONES^JACK^^^^|20000101|M||ADDRESS 1^^SPRINGFIELD^IL^62702^^H|||||||N|1|||||
PD1|||||||N|||||
PV1|R|||||||V02
ORC|RE|85354920
RXA|0|1|20110310|20110310|141|999|||Y|||||PMC|||||
```

**Minimum Required v2.3.1**

```
MSH|^~\&|77700001||20110310113157|VXU^V04^VXU_V04|MSG00001|P|2.3.1|||||
PID|1|12345678^^^MR|JONES^JACK^^^^|20000101|M||ADDRESS 1^^SPRINGFIELD^IL^62702^^H|||||||N|1|||||
PD1|||||||Y|||||
PV1|R|||||||V02
RXA|0|1|20110310|20110310|141|999|||Y|||||PMC|||||
```

Appendix E: Minimum Required Elements

| VXU^V04 | Segment | Field | Length | Type | Req/Opt | RP/#   | Table | Item # | Element Name                                 |
|---------|---------|-------|--------|------|---------|--------|-------|--------|--|
|         | MSH     | 4     |        | HD   | R       | [0..1] | 0362  | 00004  | Sending Facility                             |
|         | MSH     | 12    |        | VID  | R       | [1..1] | 0104  | 00012  | Version ID                                   |
|         | PID     | 3     |        | CX   | R       | [1..*] |       | 00106  | Patient Identifier List                      |
|         | PID     | 5     |        | XPN  | R       | [1..*] |       | 00108  | Patient Name                                 |
|         | PID     | 7     |        | TS   | R       | [1..1] |       | 00110  | Date/Time of Birth                           |
|         | PID     | 8     | 1      | IS   | R       | [0..1] | 0001  | 00111  | Administrative Sex                           |
|         | PID     | 11    |        | XAD  | RE      | [0..*] |       | 00114  | Patient Address, (If empty NK1 is required.) |
|         | NK1     | 4     |        | XAD  | CE      | [0..*] |       | 00193  | Address                                      |
|         | RXA     | 3     |        | TS   | R       | [1..1] |       | 00345  | Date/time start of administration            |
|         | RXA     | 5     |        | CE   | R       | [1..1] | 0292  | 00347  | Administered code                            |

*These are the minimum required elements for VXU^V04 messages to be successfully imported into the ICARE system. Other HL7 standard requirements should also apply.*



| VXU^V04 | Segment | Field | Length | Type | Req/Opt | RP/#   | Table   | Item # | Element Name                 |
|---------|---------|-------|--------|------|---------|--------|---------|--------|------------------------------|
|         | PID     | 6     |        | XPN  | RE      | [0..1] |         | 00109  | Mother's Maiden Name         |
|         | PID     | 10    |        | CE   | RE      | [0..*] | 0005    | 00113  | Race                         |
|         | PID     | 13    |        | XTN  | RE      | [0..*] |         | 00116  | Phone Number - Home          |
|         | PID     | 25    | 2      | NM   | CE      | [0..1] |         | 00128  | Birth Order                  |
|         | PID     | 24    | 1      | ID   | RE      | [0..1] |         |        | Multiple Birth Indicator     |
|         | PID     | 25    | 2      | NM   | CE      | [0..1] |         | 00128  | Birth Order                  |
|         | PD1     | 12    | 60     | ID   | RE      | [0..1] | 0136    | 00744  | Protection Indicator         |
|         | PD1     | 16    | 2      | ID   | RE      | [0..1] | 0441    | 01569  | Immunization Registry Status |
|         | PV1     | 20    |        | FC   | RE      | [1..*] | 0064    | 00150  | Financial Class              |
|         | NK1     | 1     | 4      | SI   | R       | [1..1] |         | 00190  | Set ID- NK1                  |
|         | NK1     | 2     |        | XPN  | R       | [1..*] |         | 00191  | Name                         |
|         | NK1     | 3     |        | CE   | R       | [1..1] | 0063    | 00192  | Relationship                 |
|         | NK1     | 4     |        | XAD  | RE      | [0..*] |         | 00193  | Address                      |
|         | ORC     | 3     |        | EI   | RE      |        |         | 00217  | Filler Order Number          |
|         | RXA     | 9     |        | CE   | RE      | [0..1] | NIP 000 | 00351  | Administration Notes         |
|         | RXA     | 10    |        | XCN  | RE      | [0..1] |         | 00352  | Administering Provider       |
|         | RXA     | 15    | 20     | ST   | RE      | [0..*] |         | 01129  | Substance Lot Number         |
|         | RXA     | 17    |        | CE   | RE      | [0..*] | 0227    | 01131  | Substance Manufacturer Name  |
|         | RXA     | 11    |        | LA2  | RE      | [0..1] |         | 00353  | Administered-at Location     |
|         | RXA     | 21    | 2      | ID   | RE      | [0..1] | 0323    | 01224  | Action Code-RXA              |
|         | RXR     | 1     |        | CE   | R       | [1..1] | 0162    | 00309  | Route                        |
|         | RXR     | 2     |        | CWE  | RE      | [0..1] | 0163    | 00310  | Administration Site          |

*These segments/elements are required but may be empty for VXU^V04 messages.*

*The segment/element may be missing from the message, but must be sent by the sending application if there is relevant data.*

*A conforming sending application must be capable of providing all "RE" segment/elements. If the conforming sending application knows the required values for the segment/element, then it must send that segment/element. If the conforming sending application does not know the required values, then that segment/element will be omitted.*

|  |
|--|
| <b>I-CARE process rules for Financial Class:</b> |
|--|

Financial class references a client's eligibility status at the time of vaccine administration. It is the eligibility of the client for the vaccine administered.

**Vaccine Financial Class** - Use in OBX-3 to indicate that OBX-5 will contain the financial class of the patient at the time the vaccine was administered.

OBX-3: is set to LOINC code "64994-7" (Vaccine funding program eligibility category)

OBX-5: is set to HL70064 table

|     |  |
|-----|--|
| V01 | Not VFC eligible   |
| V02 | VFC eligible-Medicaid/Medicaid Managed Care                              |
| V03 | VFC eligible- Uninsured  |
| V04 | VFC eligible- American Indian/Alaskan Native                             |
| V05 | VFC eligible-Federally Qualified Health Center Patient (under-insured)   |
| V06 | Deprecated [VFC eligible- State specific eligibility (e.g. S-CHIP plan)] |
| V07 | Local-specific eligibility   |
| V08 | Deprecated [Not VFC eligible-underinsured]                               |

**Example**

OBX|1|CE|64994-7|1|V04|||||F|||20090415

**Vaccines for Children (VFC) providers:**

I-CARE will need to maintain your VFC vaccine inventory for the on-line VFC ordering process. For determination of VFC inventory, I-CARE will use the below order to determine if vaccine is VFC. **Lot Number (RXA-15) is required.**

Dose-level Immunization VFC vaccine will be determined by order:

- Immunization Financial Class in OBX segment, if exists (see Appendix G);
- Patient Financial Class in PV1-20, if exists;

If none of the above is available I-CARE assumes vaccine is not VFC.

- \* Note: Assumptions for VFC vaccine are greater as order increases.  
Using Funding Source is the recommended option.

**I-CARE process rules for Immunization Funding Source:**

The funding source may be linked to each immunization record, using an OBX segment.  
 If no OBX segment with funding source is sent then we assume UNK - unknown

**Vaccine Funding Source** – Use in OBX-3 to indicate that OBX-5 will contain the funding source for a given immunization.  
 The funding source of a vaccination indicates who paid for a given immunization.

v2.5.1 OBX-3: |30963-3^funding source for immunization ^LN|

v2.5.1 OBX-5: Value Set Code:: PHVS\_ImmunizationFundingSource\_IIS

|       |                |
|-------|----------------|
| VXC1  | Federal funds  |
| PHC68 | Military funds |
| OTH   | other          |
| PHC70 | Private funds  |
| VXC2  | State funds    |
| VXC3  | Tribal funds   |
| UNK   | unknown        |

v2.3.1 OBX-3: -3: |30963-3^Vaccine purchased with^LN|

v2.3.1 OBX-5: Value Set Code:: NIP-defined NIP008 – Vaccine purchased with

|     |                |
|-----|----------------|
| PVF | Private funds  |
| PBF | Public funds   |
| MLF | Military funds |
| OTH | Other          |

**v2.5.1 Example**

OBX|1|CE|30693-3|1|VXC1|||||F|||20090415

**v2.3.1 Example**

OBX|1|CE|30963-3||PBF|||||F|

Determination if VFC doses administered are deducted from Inventory in I-CARE

