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MIIC HL7 2.3.1 and HL7 2.4 Specifications

Submitting VXU Messages

For Meeting Meaningful Use Stage 1 Reporting
 to Immunization Information Systems

Based on CDC HL7 Version 2.3.1, Version 2.2

INTRODUCTION..... 2

- PURPOSE 2
- 2.3.1 AND 2.4 SPECIFICATIONS 2
- REFERENCE AND CODE TABLES..... 2

DETAILED SEGMENT LISTINGS..... 3

- MSH – MESSAGE HEADER..... 3
- PID – PATIENT IDENTIFICATION 4
- PD1 – ADDITIONAL PATIENT DEMOGRAPHICS 5
- NK1 – NEXT OF KIN/ASSOCIATED PARTIES 7
- PV1 – PATIENT VISIT INFORMATION 8
- RXA – PHARMACY ADMINISTRATION 10
- RXR – PHARMACY/TREATMENT ROUTE 12
- OBX – OBSERVATION/RESULT 12

SAMPLE MESSAGE 14

MIIC HL7 2.3.1 and 2.4 VXU Specifications

Fields in bold are accepted by MIIC. Rows highlighted blue and marked 'R' are required.

Introduction

Purpose

The purpose of this document is to provide a concise guide to the Health Level 7 (HL7) 2.3.1 and 2.4 messages accepted by the Minnesota Immunization Information Connection (MIIC), specifically, the VXU, Unsolicited Vaccination Record Update. HL7, or Health Level Seven, is a standard messaging protocol used to exchange data between health care data systems. Providers must follow these specifications to receive Meaningful Use incentive payments for Stage 1 reporting to immunization information systems.

The audience for the document is the technical staff responsible for creating the HL7 files from within their EHR system or by some other extract program in order to submit HL7 messages to MIIC. This is not a comprehensive overview of HL7 specifications. For the full HL7 specification guide, refer to the Centers for Disease Control and Prevention's (CDC) website at www.cdc.gov/vaccines/programs/iis/stds/standards.htm#hl7. Note: Some of the MIIC requirements are more stringent than those in the CDC HL7 guide.

All organizations interested in initiating or enhancing a data interface with MIIC should complete the MIIC Data Exchange Worksheet, at www.health.state.mn.us/divs/idepc/immunize/registry/hp/dataprocess.html.

2.3.1 and 2.4 Specifications

MIIC currently supports version 2.3.1 of HL7, along with a "blend" of 2.4. In reality, the MIIC 2.4 messages are the same as 2.3.1, except that messages submitted with 2.4 can be processed "real-time" and also use some code sets from the 2.4 standard, namely race/ethnicity.

For clinics that decide to submit real-time messages, they will have to indicate 2.4 in the version ID field (MSH-12). It should be noted, however, that since MIIC's real-time 2.4 HL7 messaging is just 2.3.1 with pre-opted code sets from 2.4, that any message received with 2.4 in the version field will meet the Meaningful Use rules for Stage 1.

Rows highlighted blue and marked required (R) must be submitted to MIIC

Rows highlighted yellow are required (RE) but maybe empty and should be submitted if information is available and field is applicable

- **MIIC strongly recommends the collection and submission of these data elements to ensure good data de-duplication and data quality in MIIC**

Rows highlighted in violet are conditional (C), which means that value is required if the field it is related to contains a specific value

Non-highlighted rows are optional (O). Data may be sent if you have it but MIIC may not process it

Rows highlighted in gray (X) are deprecated and data should not be sent in this portion of the message

Reference and Code Tables

Code tables referenced in this specification can be found on the MDH MIIC website at www.health.state.mn.us/divs/idepc/immunize/registry/hp/codes.html.

Additionally, code tables are also available in the CDC HL7 Specifications posted online at www.cdc.gov/vaccines/programs/iis/stds/standards.htm#hl7.

See the Submitting and Exchanging Data with MIIC website at www.health.state.mn.us/divs/idepc/immunize/registry/hp/data.html for additional information on MIIC specifications, Meaningful Use Incentives and MIIC, HL7 transport options, and MIIC-accepted code sets.

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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Detailed Segment Listings

MSH – Message Header

The Message Header segment identifies the owner (provider) and the receiver (MIIC) of the information being sent, the HL7 message type, and the HL7 message version.

MSH Segment (Required)				
Field	Description	Required	Value/Comment	Code Table
1	Field separator	R	The character to be used as the field separator for the rest of the message ().	
2	Encoding characters	R	Four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator (^~\&).	
3	<i>Sending application</i>	O	<i>MIIC disregards</i>	
4	Sending facility	R	MIIC organization code (short name). Facility-specific code provided by MDH for each clinic. Designates the clinic location the vaccine was administered/recorded. Provider HL7 data submissions to MIIC must include ALL site-specific organization codes. This is important for reporting, follow-up and outreach. (E.g., CCAD).	
5	Receiving application	RE	MIIC	
6	Receiving facility	RE	MIIC	
7	Date/time of message	RE	YYYYMMDDhhmm (E.g., 201405130822)	
8	<i>Security</i>	O	<i>MIIC disregards</i>	
9	Message type	R	Unsolicited Vaccination Update (VXU^V04)	HL7-Defined 0076
10	Message control ID	R	Unique ID for message – usually test case number + 100	
11	Processing ID	R	Always use 'P' for production.	HL7-Defined 0103
12	Version ID	R	'2.3.1' or '2.4'	HL7-Defined 0104
13	<i>Sequence number</i>	O	<i>MIIC disregards</i>	
14	<i>Continuation pointer</i>	O	<i>MIIC disregards</i>	
15	<i>Accept acknowledgement type</i>	RE	<i>MIIC recommends submission</i>	<i>HL7-Defined 0155</i>
16	<i>Application acknowledgement type</i>	RE	Value shall be AL-always, NE-Never, ER-Error/reject only, SU successful completion only <ul style="list-style-type: none"> MIIC recommends using 'AL' or 'ER' If left blank, MIIC will auto-populate with 'AL' 	HL7-Defined 0155 (constrained)
17	<i>Country code</i>	O	<i>MIIC disregards</i>	
18	<i>Character set</i>	O	<i>MIIC disregards</i>	
19	<i>Principal language of message</i>	O	<i>MIIC disregards</i>	
20	<i>Alternate character set handling</i>	O	<i>MIIC disregards</i>	

MIIC HL7 2.3.1 and 2.4 VXU Specifications

Fields in bold are accepted by MIIC. Rows highlighted blue and marked 'R' are required.

MSH Segment (Required)				
Field	Description	Required	Value/Comment	Code Table
Example				
MSH ^~\& TestEHRApplication testSite MIIC MIIC 201405130822 VXU^V04 test1100 P 2.3.1 AL AL				

PID – Patient Identification

The Patient Identification segment includes client identifiers such as name, date of birth, address, etc.

PID Segment (Required)				
Field	Description	Required	Value/Comment	Code Table
1	Set ID – PID	O	MIIC disregards	
2	Patient ID	O	MIIC disregards	
3	Patient identifier list	R	Medical record; stored as chart number in MIIC. (ID^^^^MR^^^^^^)	User-Defined 0203
4	Alternate patient ID – PID	O	MIIC disregards	
5	Patient name	R	All three elements are required. MIIC does not accept placeholder names such as “Baby” and “Baby Boy.” (Last^First^Middle^Suffix^^^^)	
6	Mother’s maiden name	RE	This is used in client de-duplication. (Mother’s maiden last^Mother’s maiden first^^^^^^)	
7	Date of birth	R	Client’s birth date (YYYYMMDD).	
8	Gender	RE	Client’s gender (F/M/O/U).	User-Defined 0001
9	Patient alias	O	MIIC disregards	
10	Race	RE	Client’s race.	User-Defined 0005
11	Patient Address	RE	Client’s address; Incoming address is assumed as the patient’s primary address. (Street address^other^city^state^zip^^^^^^)	
12	County code	RE	Client’s county of residence. (E.g., ‘MN019’)	User-Defined 0289
13	Phone number (home)	RE	Client’s home phone number ((NNN)NNN–NNNN^^^^^^).	
14	Phone number –business	O	MIIC disregards	
15	Primary language	O	MIIC disregards	
16	Marital status	O	MIIC disregards	
17	Religion	O	MIIC disregards	
18	Patient account number	O	MIIC disregards	
19	SSN number – patient	X	MIIC disregards. DO NOT SEND.	
20	Driver’s license number – patient	O	MIIC disregards	
21	Mother’s identifier	O	MIIC disregards	

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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PID Segment (Required)				
Field	Description	Required	Value/Comment	Code Table
22	Ethnic group	RE	Client's ethnicity.	User-Defined 0189
23	Birth place	RE	Format the client's birthplace in three components: the two-character country code, the two-character state or province code (within US or Canada only) and the numeric county code.	User-Defined 0212 User-Defined 0289
24	Multiple birth indicator	RE	(Y/N/blank). Use 'Y' to indicate the client was born in a multiple birth.	HL7-Defined 0136
25	Birth order	RE	Use '1' for the first born, '2' for the second etc.	
26	Citizenship	O	MIIC disregards	
27	Veterans military status	O	MIIC disregards	
28	Nationality	O	MIIC disregards	
29	Patient death date	RE	Date of death if client is deceased (YYYYMMDD).	
30	Patient death indicator	O	MIIC disregards	

Example

```
PID|1||12345678^^^MR||Mouse^Mickey^J^III^^^|cat^martha|20060504|M||W|12345
testing ave^^St. Peter^MN^56082^^^MN103|| (555)555-5555|||||NH||N|||||N
```

PD1 – Additional Patient Demographics

The patient additional demographic segment contains additional information related to the client. The PD1 segment is optional; if used, Publicity Code, Protection Indicator, and Registry Status should be sent.

PD1 Segment (Optional) 2.3.1 and 2.4, fields 1-12				
Field	Description	Required	Value/Comment	Code Table
1	Living dependency	O	MIIC disregards	
2	Living arrangement	O	MIIC disregards	
3	Patient primary facility	O	MIIC disregards	
4	Patient primary care provider name % ID	O	MIIC disregards	
5	Student indicator	O	MIIC disregards	
6	Handicap	O	MIIC disregards	
7	Living will	O	MIIC disregards	
8	Organ donor	O	MIIC disregards	
9	Separate bill	O	MIIC disregards	
10	Duplicate patient	O	MIIC disregards	
11	Publicity Code	RE	Controls whether recall/reminder notices are sent. Default value is '02' (reminder/recall – any method).	User-Defined 0215
12	Protection indicator	RE	Controls visibility of records to other organizations. Default value is blank. 'Y' indicates that a client has given consent to share data with MIIC.	HL7-Defined 0136

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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PD1 Segment (Optional) 2.3.1 and 2.4, fields 1-12				
Field	Description	Required	Value/Comment	Code Table
PD1 Segment 2.3.1, fields 13-18				
13	<i>Reserved for 2.3.2</i>	O	<i>MIIC disregards</i>	
14	Patient registry status	RE	For use in 2.3.1 only (A/N/L/M/P).	User-Defined 0441
15	<i>Patient registry status effective date</i>	O	<i>MIIC disregards</i>	
16	<i>N/A</i>	O	<i>MIIC disregards</i>	
17	<i>N/A</i>	O	<i>MIIC disregards</i>	
18	<i>N/A</i>	O	<i>MIIC disregards</i>	
PD1 Segment 2.4.1, fields 13-18				
13	<i>Protection indicator effective date</i>	O	<i>MIIC disregards</i>	
14	<i>Place of worship</i>	O	<i>MIIC disregards</i>	
15	<i>Advance directive code</i>	O	<i>MIIC disregards</i>	
16	Patient registry status	RE	For use in 2.4 only (A/I/L/M/O/U/P).	User-Defined 0441
17	<i>Immunization registry status effective date</i>	O	<i>MIIC disregards</i>	
18	<i>Publicity code effective date</i>	O	<i>MIIC disregards</i>	
Example				
PD1 02 Y A				

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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NK1 – Next of Kin/Associated Parties

The NK1 segment contains information about the client's next of kin and other associated or related parties. The NK1 segment is optional; if used, fields 1-5 should be sent.

NK1 Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
1	Set ID – NK1	R	Sequential numbers. Use '1' for the first NK1 within the message, '2' for the second, and so forth.	
2	Name	RE	Name of the responsible person who cares for the client. (Next of kin last^next of kin first^^^^^^)	
3	Relationship	RE	Relationship of the responsible person to the client. If no relationship is sent, it will default to Self. (E.g., 32^Mother^HL70063^^^^^^)	User-Defined 0063
4	Address	RE	Responsible person's mailing address. (Street number^street name^city^state^zip code^^^^^^)	
5	Phone number	RE	Responsible person's phone number. ((NNN)NNN-NNNN^^^^^^)	
6	Business phone number	O	MIIC disregards	
7	Contact role	O	MIIC disregards	
8	Start date	O	MIIC disregards	
9	End date	O	MIIC disregards	
10	Next of kin/AP job title	O	MIIC disregards	
11	Next of kin/AP job code/class	O	MIIC disregards	
12	Next of kin/AP employee number	O	MIIC disregards	
13	Organization name	O	MIIC disregards	
14	Marital status	O	MIIC disregards	
15	Sex	O	MIIC disregards	
16	Date/time of birth	O	MIIC disregards	
17	Living dependency	O	MIIC disregards	
18	Ambulatory status	O	MIIC disregards	
19	Citizenship	O	MIIC disregards	
20	Primary language	O	MIIC disregards	
21	Living arrangement	O	MIIC disregards	
22	Publicity code	O	MIIC disregards	
23	Protection indicator	O	MIIC disregards	
24	Student indicator	O	MIIC disregards	

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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NK1 Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
25	Religion	O	MIIC disregards	
26	Mother's maiden name	O	MIIC disregards	
27	Nationality	O	MIIC disregards	
28	Ethnic group	O	MIIC disregards	
29	Contact reason	O	MIIC disregards	
30	Contact person's name	O	MIIC disregards	
31	Contact person's telephone number	O	MIIC disregards	
32	Contact person's address	O	MIIC disregards	
33	Next of kin/AP's identifiers	O	MIIC disregards	
34	Job status	O	MIIC disregards	
35	Race	O	MIIC disregards	
36	Handicap	O	MIIC disregards	
37	Contact person social security #	O	MIIC disregards	

Example

NK1 | 1 | MOUSE^MINNIE | SPO^Spouse^HL70063 | 12345 testing ave^^St.
Peter^MN^56082^^^MN103 | (555)555-5555

PV1 – Patient Visit Information

The PV1 segment contains visit-specific information. The PV1 segment is currently optional; if used, Patient Class and Financial Class are required fields. This segment will be required once vaccine ordering is implemented into MIIC to track patients' MnVFC status. If you send funding eligibility codes in the PV1 they will only apply to vaccinations that do not have a corresponding OBX funding eligibility code sent.

PV1 Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
1	SET ID – PV1	O	MIIC disregards	
2	Patient class	RE	This field is used by systems to categorize patients by site. ('R': Recurring patient)	User-Defined 0004
3	Assigned patient location	O	MIIC disregards	
4	Admission type	O	MIIC disregards	
5	Pre-admit number	O	MIIC disregards	
6	Prior patient number	O	MIIC disregards	
7	Attending doctor	O	MIIC disregards	

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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PV1 Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
8	Referring doctor	O	MIIC disregards	
9	Consulting doctor	O	MIIC disregards	
10	Hospital service	O	MIIC disregards	
11	Temporary location	O	MIIC disregards	
12	Pre-admit test indicator	O	MIIC disregards	
13	Re-admission indicator	O	MIIC disregards	
14	Admit source	O	MIIC disregards	
15	Ambulatory status	O	MIIC disregards	
16	VIP indicator	O	MIIC disregards	
17	Admitting doctor	O	MIIC disregards	
18	Patient type	O	MIIC disregards	
19	Visit number	O	MIIC disregards	
20	Financial class	RE	This field contains the financial class(es) assigned to the patient for the purpose of identifying sources of reimbursement such as Vaccines for Children eligibility.	User-Defined 0064
21	Charge price indicator	O	MIIC disregards	
22	Courtesy code	O	MIIC disregards	
23	Credit rating	O	MIIC disregards	
24	Contract code	O	MIIC disregards	
25	Contract effective date	O	MIIC disregards	
26	Contract amount	O	MIIC disregards	
27	Contract period	O	MIIC disregards	
28	Interest code	O	MIIC disregards	
29	Transfer to bad debt code	O	MIIC disregards	
30	Transfer to bad debt date	O	MIIC disregards	
31	Bad debt agency code	O	MIIC disregards	
32	Bad debt transfer amount	O	MIIC disregards	
33	Bad debt recovery amount	O	MIIC disregards	
34	Delete account indicator	O	MIIC disregards	
35	Delete account date	O	MIIC disregards	
36	Discharge disposition	O	MIIC disregards	

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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RXA Segment (Required)				
Field	Description	Required	Value/Comment	Code Table
			different coding system, such as CPT. (141^Influenza^CVX^90658^FluLaval >= 3 yrs^CPT)	
6	Administered amount	R	Quantity of vaccine administered in milliliters. Send '0' if unknown.	
7	Administered units	RE	If Administered Amount is not valued, use '999'	
8	<i>Administered dosage form</i>	O	<i>MIIC disregards</i>	
9	Administration notes	R	Use '00' to indicate a vaccine administered by the clinic. Use '01'-'08' to indicate a historical immunization.	NIP-Defined 001
10	Administering provider	RE	Identifies the name of the person physically administering the vaccine.	
11	Administered-at location	RE	MIIC will use this field to store the site where the vaccine was administered (for historical vaccinations).	
12	<i>Administered per (time unit)</i>	O	<i>MIIC disregards</i>	
13	<i>Administered strength</i>	O	<i>MIIC disregards</i>	
14	<i>Administered strength units</i>	O	<i>MIIC disregards</i>	
15	Substance lot number	R	Manufacturer's lot number for the vaccine. String with length of 20.	
16	Substance expiration date	RE	(YYYYMMDD)	
17	Substance manufacturer name	R	Manufacturer of vaccine administered. Manufacturer ID, text description, coding system. (E.g., UNK^Merck, Sharp^MVX)	HL7-Defined 0227
18	Substance refusal reason	RE	When applicable, this field records the reason the patient refused the vaccine. Any entry in this field indicates that the patient did not take the substance. The vaccine that was offered should be recorded in RXA-5, with the number 0 recorded for the dose number in RXA-2. Do not record contraindications, immunities or reactions in this field.	NIP-Defined 002
19	<i>Indication</i>	O	<i>MIIC disregards</i>	
20	<i>Completion status</i>	O	<i>MIIC disregards</i>	
21	Action code-RXA	RE	'A' (Add) or 'D' (Delete) or 'U' (Update – treated as Add by MIIC)	
22	System entry date /time	RE	(YYYYMMDD)	

Example

```
RXA|0|1|20120916|20120916|141^Influenza^CVX^90658^FluLaval >= 3
yrs^CPT|1|mL||00|||||ABC1234|20201201|SKB^GlaxoSmithKline^MVX|||A|20140513
```

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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RXR – Pharmacy/Treatment Route

The RXR segment indicates the route and site of vaccine administration.

RXR Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
1	Route	R	Route of vaccine administration. (E.g., IM)	HL7-Defined 0162
2	Site	RE	Site of vaccine administration. (E.g., LD)	HL7-Defined 0163
3	Administration device	O	MIIC disregards	
4	Administration method	O	MIIC disregards	
5	Routing instruction	O	MIIC disregards	
Example				
RXR IM LD				

OBX – Observation/Result

The OBX segment is used to record vaccine contraindications, precautions, immunity, exemptions, and reactions. If you send dose level funding eligibility codes in the OBX they will take priority, for that vaccination, over any funding eligibility codes you send in the PV1 segment.

OBX Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
1	Set ID-OBX	O	MIIC disregards	
2	Value type	R	Always use 'CE'	
3	Observation Identifier	R, if applicable	<ul style="list-style-type: none"> To send contraindications: <ul style="list-style-type: none"> Contains a unique identifier for the observation. The format is that of the Coded Element (CE). <ul style="list-style-type: none"> 30945-0^contraindication^LN This indicates what this observation refers to. It poses the question that is answered by OBX-5. Value sets: NIP003 To send vaccine-level funding eligibility: <ul style="list-style-type: none"> Contains a unique identifier for the observation. The format is that of the Coded Element (CE). <ul style="list-style-type: none"> 64994-7^funding pgm eligibility^LN This indicates what this observation refers to. It poses the question that is answered by OBX-5. Value sets: NIP003 	LOINC is standard coding for this field if an appropriate LOINC code exists.
4	Observation sub-ID	O	MIIC disregards	
5	Observation value	R, if applicable	To send contraindications or medical exemptions: <ul style="list-style-type: none"> Values are dependent on the value type specified in OBX-2 and the observation identifier specified in OBX-3. Examples: <ul style="list-style-type: none"> M4^Medical exemption: Influenza^NIP To send vaccine-level funding eligibility: <ul style="list-style-type: none"> Contains value for program funding code for this shot. Derived 	NIP-Defined 002 NIP-Defined 004 See also <i>MIIC-Defined: Immunity, Medical Exemption, Contraindications</i>

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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OBX Segment (Optional)				
Field	Description	Required	Value/Comment	Code Table
			from screening at this visit or special program funding. • Example: V04^VFC eligible NA/AN^HL70064	<i>and Precautions</i> HL7-Defined 0064 MIIC-version
6	Units	O	MIIC disregards	
7	Reference ranges	O	MIIC disregards	
8	Abnormal flags	O	MIIC disregards	
9	Probability	O	MIIC disregards	
10	Nature of abnormal test	O	MIIC disregards	
11	Observe result status	R	Always use 'F'	HL7-Defined 0085
12	Date last obs normal values	O	MIIC disregards	
13	User defined access checks	O	MIIC disregards	
14	Date/time of the observation	RE	YYYYMMDD	
15	Producer's ID	O	MIIC disregards	
16	Responsible observer	O	MIIC disregards	
17	Observation method	R, if applicable	<ul style="list-style-type: none"> If OBX-3.1 is "64994-7" for sending "funding program eligibility", then this field is used to distinguish between eligibility that is captured at the visit level versus at the immunization event level Example: VXC40^per immunization^CDCPHINVS This will always be at the "per immunization" level in MIIC.	CDCPHINVS-Funding Eligibility Observation Method (IIS)

Example

OBX|1|CE|30945-0^contraindication^LN|1|M4^Medical exemption: Influenza^NIP|||||F|||20120916

OBX|2|CE|64994-7^funding pgm eligibility^LN|2|V04^VFC eligible NA/AN^HL70064|||||F|||20130916|||VXC40^per immunization^CDCPHINVS|

MIIC HL7 2.3.1 and 2.4 VXU Specifications

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Sample Message

```
MSH|^~\&|TestEHRApplication|testSite|MIIC|MIIC|201405130822||VXU^V04|test1100|P|2
.3.1||AL|AL
PID|1||12345678^^^MR||Mouse^Mickey^J^III^^^|cat^martha|20060504|M||W|12345
testing ave^^St. Peter^MN^56082^^^MN103||(555)555-5555|||||||NH||N|||||N
PD1|||||||02|Y|||A
NK1|1|MOUSE^MINNIE|SPO^Spouse^HL70063|12345 testing ave^^St.
Peter^MN^56082^^^MN103|(555)555-5555
PV1||R|||||||V00
RXA|0|1|20120916|20120916|141^Influenza^CVX^90658^FluLaval >= 3
yrs^CPT|1|mL||00|||||ABC1234|20201201|SKB^GlaxoSmithKline^MVX|||A|20140513
RXR|IM|LD
OBX|1|CE|30945-0^contraindication^LN|1|M4^Medical exemption:
Influenza^NIP|||||F|||20120916
OBX|2|CE|64994-7^funding pgm eligibility^LN|2|V04^VFC eligible
NA/AN^HL70064|||||F|||20130916||VXC40^per immunization^CDCPHINVS|
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