

# ALERT Immunization Information System

HL7 Error Message Reference

Version 1.3

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## Change History

Published / Revised Date	Version #	Author	Section / Nature of Change
03/15/2012	1.0	OIP	First published version.
04/07/2014	1.3	OIP	Batch/RT messages no longer unique. Added inventory module error messages.

## ***Response File Introduction***

After an HL7 batch file is loaded into IIS and processed, a Response file is generated with information about the status of each record. Response files are available for uploads done through the Data Exchange module of the IIS. Similarly, responses are generated for each real-time message sent via web-service. Those responses are fed back to the system that sent the message and are how those files are stored is at the discretion of the submitter.

For additional information about the contents of the HL7 files sent in and out of ALERT IIS, please see the companion document, "HL7 General Transfer Specification."

## **Downloading the Response File**

To review a batch Response file through ALERT IIS, follow these steps.

1. After uploading a file to ALERT IIS, click the *Check Status* button from the upload page (or click the *check status* link from the *Data Exchange* menu).
2. Click on the *Job Name* link for the response file you would like to review.
3. To save the file, right-click on the *HL7 24 Response* link, and select *Save Target As...* in the pop-up menu; to view the response file in the browser, simply click the link
4. You may want to add '.txt' to the end of the file name, so the file will open easily in Notepad when you double-click it. For example, here is the original file name and the modified file name:

Original file name: 27352.response

Modified file name: 27352response.txt

While these same steps can be used to view a Response file for real-time data exchange, responses are returned immediately to the sending organization. How those files are handled is dependent on how the sending organization plans to review response files or what capabilities the EHR has for parsing and reviewing response files.

## HL7 Response File Structure

A real-time response contains errors or an acknowledgement for each message sent. Responses are returned immediately via web-services to the sending organization. In batch file processing, a batch response file contains errors or acknowledgements for every record submitted in the order in which they were submitted. After a file has been uploaded, review the job information and click on the link for the file to review:

Job Name	User Name	Exchange Data Date	Process Start Date	Process End Date	Status
<a href="#">20120223MBtest</a>	Michelle Barber	02/23/2012 14:41:33	02/23/2012 14:41:33	02/23/2012 14:41:34	COMPLETE
<a href="#">MBtest0221</a>	Michelle Barber	02/21/2012 16:16:18	02/21/2012 16:16:18	02/21/2012 16:16:18	COMPLETE
<a href="#">MBtestS0221</a>	Michelle Barber	02/21/2012 16:13:17	02/21/2012 16:13:17	02/21/2012 16:13:17	COMPLETE
<a href="#">MBtestS0221</a>	Michelle Barber	02/21/2012 16:12:30	02/21/2012 16:12:30	02/21/2012 16:12:30	COMPLETE
<a href="#">MBtestR0221</a>	Michelle Barber	02/21/2012 16:05:33	02/21/2012 16:05:33	02/21/2012 16:05:33	COMPLETE

## Files Received by ALERT IIS

Review the summary information for the file. Click the HL7 24 Response link to review the response file.

Download Files for: 20120223MBtest Refresh

[HL7 24 Response](#) (1KB) Cancel

Download Log for: 20120223MBtest

File	User Name	Download Date
No Download Logged		

Summary Information for: 20120223MBtest

Description	Patient	Immunization	Comment	Event
Processed	1	1	0	0
Accepted	1	1	0	0
New	0	0	0	0
Updated	1	1	0	0
Deleted	-	0	-	-
Already in ALERT IIS	0	0	0	0
Rejected	0	0	0	0
Pending	0	0	0	0
Unprocessed (patient rejected)	-	0	0	0
Inventory Updated	0	0	0	0
Inventory Not Updated	0	1	0	0

## Pending Patients

These are patients that ALERT IIS attempted to locate in the Patient database and two or more possible matches were found. The imported records for the patient that pass validation will be held in Pending with the patient record until the Pending match is processed by ALERT IIS staff.

## Rejected Patients

These are patients that ALERT IIS could not successfully import. Because the patient data was not valid, the patient could not be matched and therefore the immunization data could not be imported either.

## Accepted Patients with one or more Rejected Immunizations

The patient data was valid and could be used to either match or create a new demographic record, but at least one immunization record was rejected.

## Locating the Source Records for each Message

Following is a sample error pulled from the middle of a batch response file. To identify the offending record and segment in the original batch send, locate the Message Control ID, segment sequence and field position in the response file. Search the batch for the Message Control ID. In the example below, the error is in the third field of the NK1 segment, for message 1807006:

```
MSA|AR|1807006|INFORMATIONAL ERROR - NO RELATIONSHIP CODE SPECIFIED. DEFAULTING TO GUARDIAN  
ERR|NK1^95^3^0
```

“1807006” is the Message Control ID, which is the unique ID included in MSH-10 of the incoming file that can be used to locate the affected records. An “Informational Error” indicates that the message was still processed, unlike a “Message Rejected” error which indicates the message was not processed. The information that follows the error type indicates what was wrong with the message so it can be corrected for reprocessing. The exact segment and field position that need to be corrected are found following “ERR|”: the third field position in this segment (“3”) indicates which field position in the “NK1” segment caused the error.

Because real-time messages are sent one at a time, a response corresponds directly to the message sent. Use the segment and field position components to identify the exact location of the error(s) in the message.

## Message Reference

The remainder of this document is organized by general errors regardless of message type (MSH errors), errors specific to message type (VXQ, VXU), and within message type by segment and field. Each example will have the following components: Severity, Example, Explanation, and How to Fix.

### Severity explanations:

- **None** – These are acknowledgement messages that require no action on the part of the sender.
- **Low** – These messages have no effect on which records end up in the system. Most of these are noted as *Informational Errors* in the message text. For example, when reporting next of kin information, relationship to the patient is required, but if none is provided the system will default to guardian.
- **Moderate** – While these are largely informational errors, they will impact data quality. For example, if a vaccine eligibility code is not accepted there will be impact on billing and reimbursement.
- **High** – These messages indicate that an entire message or record was rejected.
- **Critical** – These are file-wide errors that prevent all of the data from being imported.

## ***Message Acknowledgements***

### **General Acknowledgment**

Severity: None  
Example: MSA|AA|1234567||0||0^Message Accepted^HL70357^^^  
Explanation: Alerts the sender that the message has been received. This precedes the MSA and ERR segments for every response when MSH-15 is set to AL (always send an acknowledgment).  
How to Fix: No action is required.  
Note: ALERT IIS recommends that MSH-15 is set to AL. If MSH-15 is left blank, it will default to AL.

### **Error Acknowledgment**

Severity: High  
Example: MSA|AR|001|NUMBER OF MESSAGES RECEIVED EXCEEDS 1|||  
Explanation: More than one message was submitted via real-time. No responses will be returned.  
How to Fix: Limit the content to a single VXQ or VXU message.

## ***MSH Errors***

### **Missing MSH Segment**

Severity: High  
Example: MSA|AR|MSA|AR|001|NO MSH SEGMENTS FOUND IN FILE|||  
Explanation: No MSH segment was included in the file submitted. ALERT IIS could not determine that a valid record was submitted. If this happens in a batch file, the offending message will not be processed, but the subsequent messages will process.  
How to Fix: Insert a valid MSH segment prior.

### **Missing/Invalid Delimiter**

Severity: High  
Example: MSA|AR||INVALID FILE--NEVER RECEIVED AN MSH SEGMENT|0||100^Segment sequence error^HL70357^^^  
ERR|FILE  
Explanation: The delimiter pipe (|) was not included in the constructed message. The message could not be parsed and therefore was not processed.  
How to Fix: Insert a pipe (|) immediately after MSH.

## Missing/Invalid Encoding Characters

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID ENCODING CHARACTERS|0||102^Invalid data value^HL70357^^^  
ERR|MSH^0^1^0
- Explanation: Encoding characters (^~\&) are missing from MSH-2. These characters must appear in this order for the message to be properly parsed. The offending message will be rejected. If this happens in a batch file, the entire offending batch will not process.
- How to Fix: Insert the encoding characters in MSH-2.

## Missing Owning Provider Organization

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - NO OWNING PROVIDER ORGANIZATION ID FOR - 1|0||101^Required field missing^HL70357^^^  
ERR|MSH^0^11^0
- Explanation: MSH-4 identifies the owner of the immunization data being sent. This must be the ALERT IIS Organization ID of the Provider Organization that owns the information (e.g., AL1111.). Contact the ALERT IIS Help Desk for the appropriate Organization Code. If the field is blank, data will be loaded with the transmitting organization as the owner of the immunization records.
- How to Fix: Indicate the owning provider Organization Code (AL#) in MSH-4. This will allow the system to verify that the organization transmitting the file has a relationship (as a parent of vendor) with the organization that owns the immunization records.

## Invalid Owning/Sending Provider Organization

- Severity: High
- Example: MSA|AR|1234567|Record rejected. The provider organization that initiated this data exchange is not identified as a parent or vendor of the organization that it labeled as the "SENDING PROVIDER ORGANIZATION" for this record.|0||
- Explanation: This could be an error in the sending application not properly populating MSH-4 (owning organization) and MSH-6 (provider organization). If MSH-6 has a value and MSH-4 is blank, MSH-4 will default to MSH-6 which could cause a mismatched owner/provider combination. Could also result from both fields are missing values.
- How to Fix: Correctly populate MSH-4 with the appropriate AL# for the owning organization.

## Missing Message Control ID

- Severity: High
- Example: MSA|AR||MESSAGE REJECTED - MESSAGE CONTROL ID IS A REQUIRED FIELD|0||101^Required field missing^HL70357^^^  
ERR|MSH^0^10^0
- Explanation: Each message is required to have a Message Control ID which is used to match responses to the appropriate sent message. While not required, this should be a unique ID. This ID will also allow you to identify the message and match it to the record sent to ALERT IIS.
- How to Fix: Populate MSH-10 with a unique message identifier.

## Missing/Invalid Processing ID

Severity: Low

Example: MSA|AR|1234567|INFORMATIONAL ERROR - INVALID PROCESSING ID. DEFAULTING TO 'P'.|0||102^Invalid data value^HL70357^^^  
ERR|MSH^0^11^0

Explanation: MSH-11 is missing or invalid. The only two acceptable values are T (testing) and P (production). If empty or invalid the system will set the field to P as default.

How to Fix: No action is required; the system will set the default value to P.

## Missing/Invalid HL7 Version

Severity: High

Example: MSA|AR|BAD MESSAGE|Unsupported HL7 version or trigger  
ERR|MSH^1^0

Explanation: If the field is empty or has a value other than 2.3.1, 2.4, or 2.5.1 the message will not be processed.

How to Fix: Ensure that MSH-12 has a value of 2.3.1, 2.4, or 2.5.1

## ***VXQ Errors***

### **Record not found**

Severity: Low  
Example: MSA|AA|1234567||0||0^Message Accepted^HL70357^^^  
QAK|330182|NF|  
Explanation: A real-time query message was sent and received, but no record was found.  
How to Fix: No action is required.

### **Missing/Invalid Message Type**

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID MESSAGE TYPE SPECIFIED|0||100^Segment sequence error^HL70357^^^  
ERR|MSH^0^9^0  
Explanation: For the system to correctly interpret the message being sent as a query message, MSH-9 must be VXQ^V01.  
How to Fix: Populate MSH-9 with VXQ^V01

### **Missing QRD Segment**

Severity: High  
Example: MSA|AR|001|LONE MSH SEGMENT IN FILE|||  
Explanation: The query definition segment is required for VXQ messages; it tells the system who to look for and defines the content to return.  
How to Fix: Include a QRD segment with a VZQ message.

### **Missing Query Date**

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Query Date is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^1^0  
Explanation: The query date (QRD-1) is empty. Future and past dates are accepted.  
How to Fix: Populate QRD-1 with the date the query was initiated. Dates should be formatted yyyyymmdd.

### **Invalid Query Date**

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid Date format|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^1^0  
Explanation: The query date (QRD-1) is improperly formatted. Dates must be formatted yyyyymmdd. This message will be returned if the format is anything other than yyyyymmdd (e.g., mmddyyyy) or is not the correct length (e.g., yymmdd).  
How to Fix: Ensure that QRD-1 is formatted as yyyyymmdd.

## Missing Query Format Code

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Query Format Code is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^2^0  
Explanation: The query format code is needed to return results; ALERT recommends record-oriented formatting.  
How to Fix: Populate QRD-2 with R.

## Invalid Query Format Code

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid Query Format Code|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^2^0  
Explanation: HL7 supports two methods for displaying responses: display or record-oriented. ALERT recommends record-oriented formatting (R in QRD-2). A D will be accepted, but all other values generate this error.  
How to Fix: Populate QRD-2 with R.

## Missing/Invalid Query Priority

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Query Priority is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^3^0<  
Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid Query Priority Code|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^3^0  
Explanation: The query priority determines how to route messages. HL7 accepts two values, D for deferred, or I for immediate. ALERT IIS does not support a deferred response.  
How to Fix: Populate QRD-3 with I.

## Missing Query ID

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Query ID is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^4^0  
Explanation: Query ID is the unique identifier for the query assigned by the querying application. ALERT IIS requires this field and null/invalid values result in message rejection.  
How to Fix: Populate QRD-4 with a unique identifier.

## Missing Quantity Limited Request

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - Quantity Limited Request is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^7^0
- Explanation: QRD-7 is empty; this field denotes the maximum number of patient matching records to be returned via a VXX response message. The 1<sup>st</sup> component must be numeric, and for ALERT IIS the 2<sup>nd</sup> component accepts only the value *RD* (i.e. |5^RD|). This error will also be returned if the 1<sup>st</sup> component is empty, even if the 2<sup>nd</sup> is populated correctly. ALERT IIS will not return more than 10 records.
- How to Fix: Populate the 1<sup>st</sup> component with a number and the 2<sup>nd</sup> with *RD*.

## Invalid Query Quantity

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid Query Quantity|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^7^1
- Explanation: The 1<sup>st</sup> component of QRD must be numeric. If this component is empty, the error above will be issued instead. ALERT IIS will not return more than 10 records.
- How to Fix: Populate the 1<sup>st</sup> component of QRD-7 with a number.

## Missing/Invalid Query Units

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid Query Units|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^7^2
- Explanation: While HL7 allows several values in the 2<sup>nd</sup> component of QRD-7, ALERT IIS only accepts the value *RD* (indicates the type of requests to return, in this instance, records).
- How to Fix: Populate the 2<sup>nd</sup> component of QRD-7 with *RD*.

## Missing Who Subject Filter

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - Who Subject Filter is a required field.|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^8^0
- Explanation: The 2<sup>nd</sup> and 3<sup>rd</sup> components (last name and first name) are required by ALERT IIS. This message is returned if both are missing.
- How to Fix: Populate the 2<sup>nd</sup> and 3<sup>rd</sup> components of QRD-8.

## Missing Last Name

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Last name required for Who Subject Filter|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^8^2  
Explanation: Missing the 2<sup>nd</sup> (last name) component of QRD-8 (Who Subject Filter).  
How to Fix: Populate the 2<sup>nd</sup> (last name) component of QRD-8.

## Missing First Name

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - First name required for Who Subject Filter|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^8^3  
Explanation: Missing the 3<sup>rd</sup> (first name) component of QRD-8 (Who Subject Filter).  
How to Fix: Populate the 3<sup>rd</sup> (first name) component of QRD-8.

## Invalid First Name

Severity: High  
Example: MSA|AR|1234567|Message rejected. BABY GIRL is not a valid first name.|0||  
Explanation: First name is considered invalid; usually occurs when “Baby” is submitted.  
Example: MSA|AR|1234567|Record Rejected - Invalid first name (MICHELLE1).|0||  
Explanation: Name contains a non-alpha character.  
How to Fix: Ensure that the first name does not contain any numerals and does not contain any names from the False Names List (Appendix II).

## Missing What Subject Filter

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - What Subject Filter is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^9^0  
Explanation: This field specifies what type of information to return in the query. ALERT IIS requires a value of *VXI* (vaccine information) in the 1<sup>st</sup> component of this field. The 2<sup>nd</sup> and 3<sup>rd</sup> components are ignored by ALERT IIS, but a properly formatted message will include *Vaccine Information* in the 2<sup>nd</sup> component and *HL700048* in the 3<sup>rd</sup> component.  
How to Fix: Populate QRD-9 as follows: *VXI^Vaccine Information^HL700048*

## Missing/Invalid What Subject Filter Identifier

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid What Subject Filter Identifier(s)|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^9^1  
Explanation: ALERT IIS requires a value of *VXI* (vaccine information) in the 1<sup>st</sup> component of QRD-9.  
How to Fix: Populate QRD-9 with *VXI*.

## Missing/Invalid What Department Code

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - What Department Data Code is a required field.|0||101^Required field missing^HL70357^^^  
ERR|QRD^1^10^0
- Example: MSA|AR|1234567|INFORMATIONAL ERROR - Invalid What Department Data Code.|0||102^Invalid data value^HL70357^^^  
ERR|QRD^1^10^1
- Explanation: This is a required field; ALERT IIS recommends populating with *ALERTIIS*. The current version of the ALERT IIS HL7 General Transfer specification provides an example where the 1<sup>st</sup> component is empty (|^ALERTIIS|); coding it in this fashion will result in both of the aforementioned errors. The field should not start with ^.
- How to Fix: Populate QRD-10 with *ALERTIIS*.

## Missing QRF Segment

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - ALERT IIS REQUIRES A QRF SEGMENT FOR VXQ MESSAGE TYPE.|0||100^Segment sequence error^HL70357^^^  
ERR|MSH^0^0^0
- Explanation: The query filter segment is required to further refine the query definition. This segment is either missing entirely, or improperly constructed.
- How to Fix: Include a properly constructed QRF segment as part of a VXQ message. See the HL7 General Transfer Specification for details.

## Missing Where Subject Filter

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - WHERE SUBJECT FILTER IS A REQUIRED FIELD.|0||101^Required field missing^HL70357^^^  
ERR|QRF^2^1^0
- Explanation: This is a required field; ALERT IIS recommends populating with *ALERTIIS* to indicate that the query pertains to the Oregon ALERT IIS.
- How to Fix: Populate QRF-1 with *ALERTIIS*.

## Missing DOB

- Severity: High
- Example: MSA|AR|1234567|MESSAGE REJECTED - Date of birth is a required field|0||101^Required field missing^HL70357^^^  
ERR|QRF^2^5^2
- Explanation: Date of birth is missing and it is a required field.
- How to Fix: Populate QRF-5 with the client's properly formatted date of birth.

## Invalid DOB

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - Invalid date of birth format|0||102^Invalid data value^HL70357^^^  
ERR|QRF^2^5^2  
Explanation: Date of birth is improperly formatted.  
How to Fix: Ensure that the client's date of birth is properly formatted (yyyymmdd).

## Segments Out of Sequence

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - QRF SEGMENT BEFORE QRD SEGMENT|0||100^Segment sequence error^HL70357^^^  
ERR|QRF^1^0^0  
Explanation: VXU messages are comprised of three segments: MSH, QRD, and QRF. They must appear in this order for the message to be processed.  
How to Fix: Ensure that the message is constructed properly.

## ***VXU Errors***

### **Missing/Invalid message type**

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID MESSAGE TYPE SPECIFIED|0||100^Segment sequence error^HL70357^^^  
ERR|MSH^0^9^0  
Explanation: For the system to correctly interpret the message being sent as a query message, version 2.4 MSH-9 must be VXU^V04 (Unsolicited Vaccine Update) and version 2.5.1 MSH-9 must be VXU^V04^VXU\_V04.  
How to Fix: Populate MSH-9 with VXU^V04 or VXU^V04^VXU\_V04, as appropriate.

### **Missing PID Segment**

Severity: High  
Example: MSA|AR|092008|MESSAGE REJECTED - MESSAGE MUST HAVE ONE PID SEGMENT.  
ERR||MSH^1|100^^HL70357  
Explanation: A VXU must contain a single patient identifier segment. If this error is returned, the entire segment may be missing, or the segment name may be malformed.  
How to Fix: Ensure that a properly constructed PID segment follows the MSH segment for a VXU message.

### **Multiple PID Segments**

Severity: High  
Example: MSA|AR|092008|MESSAGE REJECTED - ONLY ONE PID SEGMENT ALLOWED PER MESSAGE.  
ERR||PID^1|100^^HL70357  
Explanation: A VXU must contain a single patient identifier segment. If this message is received, multiple PID segments were included in the message.  
How to Fix: Ensure that a single PID segment exists for the message.

### **Pending Patient**

Severity: Low  
Example: MSA|AR|1234567|The incoming patient matches more than one existing candidate. Existing candidate patient ids include 1234567 9876543  
MSA|AR|1234567|The incoming patient information has been saved (ID 98765432) for review by a State BA, who will decide the appropriate existing patient to match to.  
Explanation: There is more than one patient in ALERT IIS that this message could update. The information in the message is retained in a Pending Patients file that is only accessible to ALERT IIS staff. Until the record is properly identified and merged with an existing patient, any additional updates will also go into the pending file.  
How to Fix: Sending the complete and accurate demographic data is the best way to ensure that records are properly updated. ALERT IIS staff manually resolve pending records.

## Locked Patient

Severity: Moderate  
Example: MSA|AR|1234567|Record(s) may be locked. Please contact ALERT Help Desk for more information.  
Explanation: A record is locked from editing when the patient has been marked as deceased or if the patient has requested a lock on their record. No updates will be processed unless the record is unlocked, which can only be done by ALERT IIS staff.  
How to Fix: Contact the ALERT IIS helpdesk.

## Missing Patient Identifier

Severity: High  
Example: MSA|AR|092008|MESSAGE REJECTED - REQUIRED FIELD PID-3 MISSING.  
ERR||PID^1^3^0|100^^HL70357  
Explanation: The 1<sup>st</sup> component of PID-3, the chart number/unique patient identifier, is missing  
  
Example: MSA|AR|092008|MESSAGE REJECTED - REQUIRED FIELD PID-3-5 MISSING.  
ERR||PID^1^3^0|100^^HL70357  
or  
MSA|AR|092008|MESSAGE REJECTED - PATIENT IDENTIFIER TYPE OF PI OR PN OR PRN OR PT  
REQUIRED  
ERR||PID^1^3|102^Data type error^HL70357  
Explanation: The 5<sup>th</sup> component is also required and must indicate one of the following code types: MR (Medical Record Number), PI (Patient Internal Identifier), PN (Person Number), PRN (Provider Number), or PT (Patient External Identifier).  
How to Fix: Populate the 1<sup>st</sup> (ID) and 5<sup>th</sup> (ID Type Code) components of PID-3 for any patient identifiers submitted. Refer to the HL7 General Transfer Specification for details, particularly HL7 Table 0203.  
Note: MA (Medicaid Number) and SS (Social Security Number) are accepted when also submitted with one of the required code types listed in the explanation section. BR (Birth Registry Number), MC (Medicare Number), and SR (State Registry Identifier) are not

## Invalid Patient Identifier

Severity: Low  
Example: MSA|AR|092009|Informational error - Invalid patient identifier type  
ERR||PID^1^3|102^Data type error^HL70357  
Explanation: Repetition is supported in this field, an unrecognized ID Type Code was sent in addition to one or more of the required ID and ID Type Codes.  
How to Fix: Populate the 1<sup>st</sup> (ID) and 5<sup>th</sup> (ID Type Code) components of PID-3 for any patient identifiers submitted. Refer to the HL7 General Transfer Specification for details, particularly HL7 Table 0203.

## Missing Patient Last Name

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - PATIENT LAST NAME REQUIRED|0||101^Required field missing^HL70357^^^  
ERR|PID^1^5^1  
Explanation: The entire PID-5 field is required. This error message will be returned if the 1<sup>st</sup> component (last name) is empty.  
How to Fix: Populate the 1<sup>st</sup> component of PID-5 with the patient's last name, and the 2<sup>nd</sup> component of PID-5 with the patient's first name.

## Invalid Last Name

Severity: High  
Example: MSA|AR|092001.5|Record rejected. Patient last name must be greater than one character in length.  
ERR|||^HL70357  
Explanation: Single character last names are not deemed valid.  
Example: MSA|AR|1234567|Message rejected. BABY is not a valid last name.|0||  
Explanation: Last name contains one of the names from the False Names table, in this case BABY.  
Example: MSA|AR|1234567|Record Rejected - Invalid Last Name (JONES2).|0||  
Explanation: Last name contains a numeral.  
How to Fix: Ensure that the last name does not contain any numerals and does not contain any names from the False Last Names List (Appendix III).

## Missing Patient First Name

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - PATIENT FIRST NAME REQUIRED.|0||101^Required field missing^HL70357^^^  
ERR|PID^1^5^2  
Explanation: The 2<sup>nd</sup> component of PID-5 (first name) is missing.  
How to Fix: Populate the 2<sup>nd</sup> component with a valid first name.

## Invalid First Name

Severity: High  
Example: MSA|AR|1234567|Message rejected. BABY is not a valid first name.  
Explanation: First name contains one of the names from the False Names table, in this case BABY.  
Example: MSA|AR|1234567|Record Rejected - Invalid first name (JACK2).|0||  
Explanation: Last name contains a numeral.  
How to Fix: Ensure that the first name does not contain any numerals and does not contain any names from the False Names List (Appendix II).

## Missing DOB

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - DATE OF BIRTH IS A REQUIRED FIELD|0||101^Required field missing^HL70357^^^  
ERR|PID^1^6^0  
Explanation: Date of birth field (PID-6) is empty.  
How to Fix: Populate PID-6 with the client's properly formatted (yyyymmdd) date of birth.

## Invalid DOB

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID DATE OF BIRTH. BIRTH YEAR MUST BE > 1889.|0||102^Invalid data value^HL70357^^^  
ERR|PID^1^6^0  
Explanation: ALERT IIS does not consider dates of birth prior to 1889 valid.  
Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID DATE OF BIRTH FORMAT|0||102^Invalid data value^HL70357^^^  
ERR|PID^1^6^0  
Explanation: There are 6 or fewer digits in the date of birth field (PID-6).  
Example: MSA|AR|1234567|MESSAGE REJECTED - A VALID DATE OF BIRTH MUST BE SPECIFIED.|0||102^Invalid data value^HL70357^^^  
ERR|PID^1^6^0  
Explanation: There are not only 7 digits in the date of birth field (PID-6).  
How to Fix: Date of birth must be properly formatted (yyyymmdd).

## Invalid Date of Death

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - INVALID DATE OF DEATH DATE FORMAT.|0||102^Invalid data value^HL70357^^^  
ERR|PID^1^28^0  
Explanation: Date of death (PID-29) is improperly formatted.  
How to Fix: Make sure that PID-29 is only populated for deceased patients and that date of death is formatted yyyymmdd.  
Note: This error message has an error in it. Date of Death is actually PID-29. The error message is correct, but the location of the error inaccurately indicates PID-28.

## Multiple PD1 Segments

Severity: High  
Example: MSA|AR|1234567|MESSAGE REJECTED - ONLY ONE PD1 SEGMENT ALLOWED PER MESSAGE.|0||100^Segment sequence error^HL70357^^^  
ERR|PD1^3^0^0  
Explanation: Multiple additional patient demographic segments were included in the message.  
How to Fix: Ensure that only a single PD1 segment is included in the message.

## Invalid Responsible Person ID

Severity: Low  
Example: MSA|AR|1234567|INVALID NK1 SEGMENT - INVALID RESPONSIBLE PERSON ID.|0||102^Invalid data value^HL70357^^^  
ERR|NK1^3^1^0  
Explanation: NK1 segments must include a valid responsible person ID. If this value is missing, ALERT IIS assumes a default value of GUA (GUARDIAN).  
How to Fix: Map responsible person ID to table HL70063.

## Missing Responsible Person

Severity: Low  
Example: MSA|AR|1234567|INFORMATIONAL ERROR - null|0||102^Invalid data value^HL70357^^^  
ERR|NK1^3^3^0  
Explanation: Last name and a minimum of first initial are empty. While not required, this field is important to designate who is responsible for this patient.  
How to Fix: Populate the 1<sup>st</sup> component of NK1-2 with the next of kin's last name, and the 2<sup>nd</sup> component with the next of kin's first name.  
Note: This error message has an error in it. Responsible Person information is actually NK1-2. The error message is correct, but the location of the error inaccurately indicates NK1-3.

## Missing Responsible Person Last Name

Severity: Low  
Example: MSA|AR|1234567|INFORMATIONAL ERROR - RELATIONSHIP MISSING LAST NAME. NO VALUE STORED.|0||102^Invalid data value^HL70357^^^  
ERR|NK1^3^3^0  
Explanation: While the entire NK1 segment is optional, if it is included, last name is required to be populated. The rest of the record will be stored, but next of kin information will not.  
How to Fix: Populate the 1<sup>st</sup> component of NK1 with a valid last name.

## Invalid Responsible Person Last Name

Severity: Low  
Example: MSA|AR|1234567|Informational error - Invalid responsible party last name (Jones2). No value stored.|0||  
Explanation: The 1<sup>st</sup> component (last name) of the NK1 segment contains a numeral, contains invalid characters (e.g., "" or ()), or is otherwise invalid.  
How to Fix: Populate the 1<sup>st</sup> component of NK1 with a valid last name.

## Invalid Responsible Person First Name

Severity: Low  
Example: MSA|AR|1234567|Informational error - Invalid responsible party last name (Jones2). No value stored.|0||  
Explanation: The 2<sup>nd</sup> component (first name) of the NK1 segment contains a numeral or double quotations.  
How to Fix: Populate the 2<sup>nd</sup> component of NK1 with a valid last name or leave blank.

### Invalid Responsible Person Middle Name

Severity: Low  
Example: MSA|AR|Clackamas Pediatric Clinic-1234567|Informational error - Invalid responsible party middle name (F2). No value stored.|0| |  
Explanation: The 3<sup>rd</sup> component (middle name) of the NK1 segment contains a numeral or is invalid.  
How to Fix: Populate the 3<sup>rd</sup> component of NK1 with a valid last name or leave blank.

### Missing Responsible Person Relationship

Severity: Low  
Example: MSA|AR|1234567|INFORMATIONAL ERROR - NO RELATIONSHIP CODE SPECIFIED. DEFAULTING TO GUARDIAN|0| |102^Invalid data value^HL70357^^^  
ERR|NK1^3^3^0  
Explanation: While the entire NK1 segment is optional, if it is included, relationship must be specified. If no relationship code (see ALERT IIS User Table 0063), ALERT IIS will set the relationship to GRD (Guardian) by default.  
How to Fix: Set NK1-3 to the appropriate relationship code for the next of kin provided.

### Invalid Responsible Person Relationship

Severity: Low  
Example: MSA|AR|1234567|INFORMATIONAL ERROR - INVALID RELATIONSHIP CODE. DEFAULTING TO GUARDIAN.|0| |102^Invalid data value^HL70357^^^  
ERR|NK1^3^3^0  
Explanation: The relationship code specified is not a member of the ALERT IIS User Table 0063, ALERT IIS will set the relationship to GRD (Guardian) by default.  
How to Fix: Set NK1-3 to the appropriate relationship code for the next of kin provided.

### Duplicate Immunization

Severity: Low  
Example: MSA|AR|1234567|Incoming Immunization already exists in the system. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 01112012 CVX Code: 141.|0| |  
How to Fix: Query ALERT IIS (or check the user interface) to have the full patient history returned. If a duplicate immunization was added, it can be removed by sending a delete message.

### Duplicate Immunization

Severity: High  
Example: MSA|AR|1494833|Added potential duplicate immunization in the system. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 06082011 CPT Code: 90696.  
Explanation: The immunization record submitted matched another immunization in the system and was duplicated.  
How to Fix: Assure that historical records are being recorded appropriately. Look up patient in the IIS and delete record if information was recorded incorrectly.

Example: MSA|AR|1711988469030590|Record rejected. This immunization matches another immunization in incoming file. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 04012014 CVX Code:110 Lot Number:2EB97 Vac Elig:B.

Explanation: The immunization record submitted matched another immunization in the file.

How to Fix: Assure that immunizations are included one time per file and are not being duplicated by sending a combination vaccine code in addition to the single antigen codes. Look up patient in the IIS to assure that the combo vaccine is reflected in the IIS.

### Missing Immunization Sub-ID Counter

Severity: Low

Example: MSA|AR|092008|RXA #1 IGNORED - REQUIRED FIELD RXA-1 MISSING.  
ERR|RXA^1^1^0|100^^HL70357

Explanation: RXA-1 is a required HL7 data element and entire RXA is rejected if field is sent empty. ALERT IIS requires populating RXA-1 with 0.

How to Fix: Populate RXA-1 with 0 and resubmit record.

### Missing Administration Sub-ID Counter

Severity: High

Example: MSA|AR|092008|RXA #1 IGNORED - REQUIRED FIELD RXA-2 MISSING.  
ERR|RXA^1^2^0|100^^HL70357

Explanation: RXA-2 is a required HL7 data element and entire RXA is rejected if field is sent empty. ALERT IIS recommends populating RXA-2 with 1

How to Fix: Populate RXA-2 with 1 and/or RXA-1 with 0 and resubmit record.

### Invalid Administration Sub-ID Counter

Severity: Low

Example: MSA|AR|092008|Informational Error - If supplied, RXA 2 should match constraint listed in spec.  
ERR|RXA|102^^HL70357

Explanation: ALERT IIS recommends populating this field with 1

How to Fix: Populate RXA-2 with 1.

### Missing/Invalid Administration Start Date

Severity: High

Example: MSA|AR|092008|RXA #1 IGNORED - REQUIRED FIELD RXA-3 MISSING.  
ERR|RXA^1^3^0|100^^HL70357

Explanation: Immunization record not imported in to the IIS. The date of vaccine administration was empty or the date incorrectly formatted.

How to Fix: Populate RXA-3 with a properly formatted (yyyymmdd) administration date.

Example: MSA|AR|092008|Invalid vaccine administration date. Future date.  
ERR|RXA^1^3|102^Data type error^HL70357

Explanation: The vaccine administration date is a future date that has not occurred yet; Immunization record not imported in to the IIS.

Example: MSA|AR|092008|Invalid vaccine administration date. Date of birth after administration date.  
ERR|RXA^1^3|102^Data type error^HL70357

Explanation: Date of vaccination is prior to the patient's date of birth; Immunization record not imported in to the IIS.

How to Fix: Verify patient date of birth and the administration date of the immunization.

Example: MSA|AR|092008|Record rejected. This patient has existing immunizations with vaccination date(s) prior to the patient's birth date.

ERR|||^HL70357

Explanation: The date of birth sent in the file is after the date of an immunization currently existing in ALERT IIS; Patient and Immunization record not imported in to the IIS.

How to Fix: Verify patient date of birth, update, and resubmit file. For example your patient is sent with a DOB of 1/1/14 and it matches to an existing record with a DOB of 12/31/13 with a birth dose Hep B of 12/31/13. If you are confident that the existing DOB is incorrect please contact the ALERT IIS helpdesk with supporting informations so that the IIS record modifications can be made.

### Missing Administered Code

Severity: Moderate

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Invalid immunization ADMINISTERED CODE IS A REQUIRED FIELD.|0||101^Required field missing^HL70357^^^  
ERR|RXA^6^5^0

Explanation: The code provided in RXA-5 is not from one of the recognized code sets. ALERT IIS recommends and prefers CVX codes.

How to Fix: Populate the 1<sup>st</sup> component of RXA-5 with a two digit (e.g., 09) CVX code, the 2<sup>nd</sup> component with the text description of that code (e.g., Td/Tdap) and the 3<sup>rd</sup> component with the name of the code set (e.g., CVX). If sending multiple code sets or a code set other than CVX (e.g., NDC, CPT), use the same logic to populate components 4-6.

### Invalid Administered Code

Severity: Moderate

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Invalid immunization INVALID ADMINISTERED CODE.|0||102^Invalid data value^HL70357^^^  
ERR|RXA^6^5^0

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Invalid immunization INVALID ADMINISTERED CODE...|0||102^Invalid data value^HL70357^^^  
ERR|RXA^6^5^0

Explanation: The administration code provided is not part of the code set specified (e.g., 123^Td/Tdap^CVX is not a legitimate combination).

How to Fix: Ensure that the code provided in the 1<sup>st</sup> (or 4<sup>th</sup>) component of RXA-5 is a valid member of the code set declared in the 3<sup>rd</sup> (or 6<sup>th</sup>) component of RXA-5. Vaccine code lists are available on the ALERT IIS website.

### Missing Administered Amount

Severity: High

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Invalid immunization ADMINISTERED AMOUNT IS A REQUIRED FIELD.|0||101^Required field missing^HL70357^^^  
ERR|RXA^4^6^0

Explanation: The amount of vaccine administered is a required data element in HL7How to Fix: If information has not been populated in the EHR, use 999

### Missing Administering Provider Last Name

Severity: Low  
Example: MSA|AR|1234567|INFORMATIONAL ERROR - Administering provider last name is required to use administering provider field.|0| |101^Required field missing^HL70357^^^ERR|RXA^2^10^0  
Explanation: The 2<sup>nd</sup> component of RXA-10 is empty and the entire field is ignored.  
How to Fix: Populate the 2<sup>nd</sup> component of RXA-10 with the provider's last name, the 3<sup>rd</sup> component with the providers first name, and the 5<sup>th</sup> component with the provider's license information (e.g., LPN, RN, MD).

### Duplicate Clinicians

Severity: Low  
Example: MSA|AR|1491706|Informational error - More than one clinician found to match (LAST NAME, FIRST NAME)  
Explanation: The name of the clinician provided in RXA-10 matches more than one provider stored in ALERT IIS. Without being able to properly identify which of the provider's in ALERT IIS to match to, neither is accepted.  
How to Fix: Populate the correct provider for the vaccine through the ALERT IIS user interface or contact the ALERT IIS Help Desk so they can correctly identify the provider.  
Note: This error does not occur in real-time data exchange, if providers can't be matched a new provider is created.

### Invalid Lot Number

Severity: Moderate  
Example: MSA|AR|1234567|System Vaccine Lot information not available.  
Explanation: The vaccine lot number sent in the message is not a member of the inventory available in ALERT IIS for this organization. No inventory will be deducted.  
How to Fix: Populate RXA-15 with a valid lot number.  
Note: This message is erroneously returned for sites not using the inventory module in ALERT IIS. In this instance, no action is required.

### Vaccine Lot Not Found

Example: MSA|AR|2106922| Incoming Immunization vaccine lot was not found.  
How to Fix: ALERT is unable to match the lot # being sent to anything in the clinic's inventory. Check inventory and lot #s in EHR to make sure that the lot exists in both systems. Make certain that there are no leading/trailing spaces in the lot #s for either system. Make sure that B's are not mistaken for 8s, or Hs for 4s, etc.

### **Delete Not Processed**

- Example: MSA|AR|2106922|The incoming delete immunization matches a shot given from ALERT IIS inventory. This delete was not processed.
- How to Fix: If you send a message to delete an immunization from ALERT and that immunization was deducted from inventory when it was originally sent in, ALERT cannot process the delete.

### **Multiple Vaccine Lots**

- Example: MSA|AR|2106922| Multiple Vaccine Lots Found
- How to Fix: Check clinic inventory and make corrections where multiple vaccine lots exist.

### **No Vaccine for Lot on Hand**

- Example: MSA|AR|2106922| Vaccine Lot is Not Active. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 01032013 CVX Code: 111 Lot Number: 9TCL. Vaccine Lot Quantity on Hand = 0.
- How to Fix: If you receive this error, either it is a data entry issue or your inventory is not up to date in ALERT. Check stock and inventory.

### **Lot is Not Active**

- Example: MSA|AR|2106922| Vaccine Lot is Not Active. The incoming immunization that this system retained may be identified by the following characteristics...
- How to Fix: If a lot is set to inactive the system will not deduct.

### **Borrowed Inventory Dose**

- Example: MSA|AR|333|informational error - Borrowed inventory dose from Lot 987654TCL to be displayed if inventory deduction occurs.
- How to Fix: This informational error will be received when a clinic sends an immunization without a vaccine eligibility code or when the lot# being sent is in the clinic's State-supplied inventory and the vaccine eligibility code indicates private. Or, vice versa. There is nothing to do here, just note that the system borrowed a dose from the state-supplied inventory and that will show up as such in the Show Transactions report.

### **Unable to Delete Immunization**

- Severity: Moderate
- Example: MSA|AR|1234567|The incoming delete immunization does not match an existing immunization in ALERT IIS. This delete was not processed.
- Explanation: RXA-21 is set to D but the immunization doesn't match any in ALERT IIS. The messages must match exactly for the delete to process.

How to Fix: Check the ALERT IIS user interface to ensure that the immunization to delete actually exists in ALERT IIS or call the Help Desk for assistance.

### Missing/Invalid Observation Value (Non-Eligibility OBX Segment)

Severity: Low

Example: MSA|AR|1234567|INFORMATIONAL ERROR - INACCURATE OR MISSING OBSERVATION VALUE. NO VALUE STORED..|0||102^Invalid data value^HL70357^^^  
ERR|OBX^7^5^0

Explanation: When sending an OBX segment for any observation other than vaccine eligibility, this message is returned when OBX-5 (observation value) is empty.

How to Fix: Refer to the appropriate code table (found in the ALERT IIS HL7 General Transfer Specification) when sending contraindications, reactions, adverse events, vaccine series information, or recommendation information for a vaccine series.

### Missing/Invalid Vaccine Eligibility Code

Severity: Moderate

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Vaccine Eligibility Code empty or not valid for organization. No Value Stored.|0||102^Invalid data value^HL70357^^^  
ERR|OBX^7^5^0

Example: MSA|AR|2|Informational Error: Vaccine Eligibility Code empty or not valid for organization. No value stored.. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 12231974 CVX Code: 10 CPT Code: 90713 Vac Elig:C.|0||

Explanation: Vaccine Eligibility Code is required for Vaccines for Children (VFC) participating clinics. ALERT IIS collects vaccine eligibility code by dose in the OBX segment to support both billable projects and future accountability and interface requirements for vaccine ordering, distribution and inventory.

How to Fix: Refer to the vaccine eligibility code table (found in the ALERT IIS HL7 General Transfer Specification) to populate OBX-5 appropriately.

Note: There are nuances between the error messages displayed above which is why they were all included. Note the difference in the batch examples capitalization and punctuation.

### Multiple Vaccine Eligibility Codes Submitted

Severity: High

Example: MSA|AR|1234567|INFORMATIONAL ERROR - Vaccine Eligibility Code ignored, only accepting the first one. This Value NOT Stored.|0||102^Invalid data value^HL70357^^^  
ERR|OBX^5^5^0

Explanation: While multiple OBX segments are acceptable, only one should include eligibility. Only the first occurrence is stored, subsequent OBX segments with vaccine eligibility are ignored.

How to Fix: Ensure that only one OBX segment includes vaccine eligibility coding.

### Multiple RXR Segments

Severity: High

Example: MSA|AR|1234567|MESSAGE REJECTED - ONLY ONE RXR SEGMENT PER RXA SEGMENT ALLOWED.|0||100^Segment sequence error^HL70357^^^  
ERR|RXR^5^0^0

Explanation: Though RXR segments are optional, there cannot be more than RXA segment.

How to Fix: Ensure that the VXU message is properly constructed message ([ ] denotes optional fields, { } denotes repeating fields): MSH, PID, [PD1], [{NK1}], {RXA}, [RXR] (one per RXA), and [{OBX}].

### Segments Out of Sequence

Severity: High

Example: MSA|AR|1234567|

ERR|OBX^1^0^0|0||100^Segment sequence error^HL70357^^^

Example: MSA|AR|1234567|MESSAGE REJECTED - PV1 SEGMENT BEFORE PID SEGMENT|0||100^Segment sequence error^HL70357^^^

ERR|PV1^1^0^0

Example: MSA|AR|1234567|MESSAGE REJECTED - RXA SEGMENT BEFORE PID SEGMENT.|0||100^Segment sequence error^HL70357^^^

ERR|RXA^1^0^0

Example: MSA|AR|1234567|MESSAGE REJECTED - PD1 SEGMENT BEFORE PID SEGMENT|0||100^Segment sequence error^HL70357^^^

ERR|PD1^1^0^0

Example: MSA|AR|1234567|MESSAGE REJECTED - NK1 SEGMENT BEFORE PID SEGMENT.|0||100^Segment sequence error^HL70357^^^

ERR|NK1^1^0^0

Example: MSA|AR|1234567|MESSAGE REJECTED - OBX SEGMENT BEFORE RXA SEGMENT.|0||100^Segment sequence error^HL70357^^^

ERR|OBX^2^0^0

Explanation: The VXU message sent was not properly constructed. MSH, PID, and one ore more RXA segments are required in this order for a properly constructed message. PV1, NK1, RXR, and OBX segments are all optional, but must follow the PID segment.

How to Fix: Ensure that the VXU message is properly constructed message ([ ] denotes optional fields, { } denotes repeating fields): MSH, PID, [PD1], [{NK1}], {RXA}, [RXR] (one per RXA), and [{OBX}].

### ***Appendix I - Invalid Address values***

The following values are not allowed in any of the Address fields.

ADDRESS	DO NOT USE	GENERAL DELIVERY	NO CURRENT	UNKNOWN
COMMENT	FAMILY PLANNING	MAIL RETURNED	PLANN PARENTHOO	UPDATE
DECEASED	FAMILY PLANNING SERVICES	MOVED	PLANNED PARENTHOOD	

## ***Appendix II - Valid Suffix values***

The following values are the only allowable values for any of the Suffix fields.

DR	FR	KC	PVT	SR
DVM	III	M D	REV	VIII
FC	JR	MD	SISTER	

### ***Appendix III - Invalid First Name values***

The following values are not allowed in any of the First Name fields.

AF BABY	GIRL II	INFANTBOY	THWJ
BABY	HBS	INFANTGIR	TOMORROW'S CHILDREN
BABY B	HRH	INFANTGIRL	TSWJ
BABY BOY	ILLEGIBLE SIGNATURE	INFANTMAL	TSWM
BABY G	INFANT	INFANTMALE	TSWV
BABY GIRL	INFANT BO	LCFS	TXWM
BABYB	INFANT BOY	LSS	UFA
BABYBOY	INFANT FE	LSS BABY	UNK
BABYGIRL	INFANT FEM	LWG	UNKN
BOY I	INFANT G	MRS	UNKNOEN
BOY II	INFANT GI	NEWBORN	UNKNOWN
CHILD	INFANT GIR	NFN	UNKOWN
CSS	INFANT GIRL	NTXHW	UNNAMED
FEMALE	INFANT GRL	PVN	UNREADABLE
FIRE DEPT	INFANT M	SIGNATURE	WLCFS
GIRL	INFANT MA	SLKDFSLKD	XWM
GIRL I	INFANT MAL	SRM	XXX

## Appendix IV - Invalid Last Name values

The following values are not allowed in any of the Last Name fields.

A BABY	CFCFS	INFANT GIRL	S BABY
A F BABY	CS	INFANTBOY	S C I
AF	CSS	INFANTGIRL	SB
AF BABY	CSS BABY	INFANTMALE	SC
AF BABY BO	CSSW	L S S	SIGNATURE
AF BABY GI	D S S	LCFD	SMRT
AFBABY	DCS	LCFS	SRB
B C S	DFS	LCSF	SRFC
B S C	DSS	LNAME	SRP
BABY	E BABY	LS	SS
BABY BOY	F BABY	LSDKFSLDK	T A O
BABY GIRL	FEMALE	LSS	UFA
BABYBOY	FF	LSSFC	UNK
BABYGIRL	FIRE DEPT	LT JR	UNKN
BCS	FWV	M BABY	UNKNOEN
BCSW	G BABY	M BABY BOY	UNKNOWN
BRT	GARCIA INF	NEWBORN	UNKOWN
BSC	GIRL	NLN	UNNAMED
C A C	GSST	O BABY	UNREADABLE
C S	H BABY BOY	P BABY	V BABY
C S S	INFANT	PCS	VLK
CAC	INFANT BOY	R BABY	WLCFS
CBS	INFANT FEM	S B A	Z BABY
CCS			