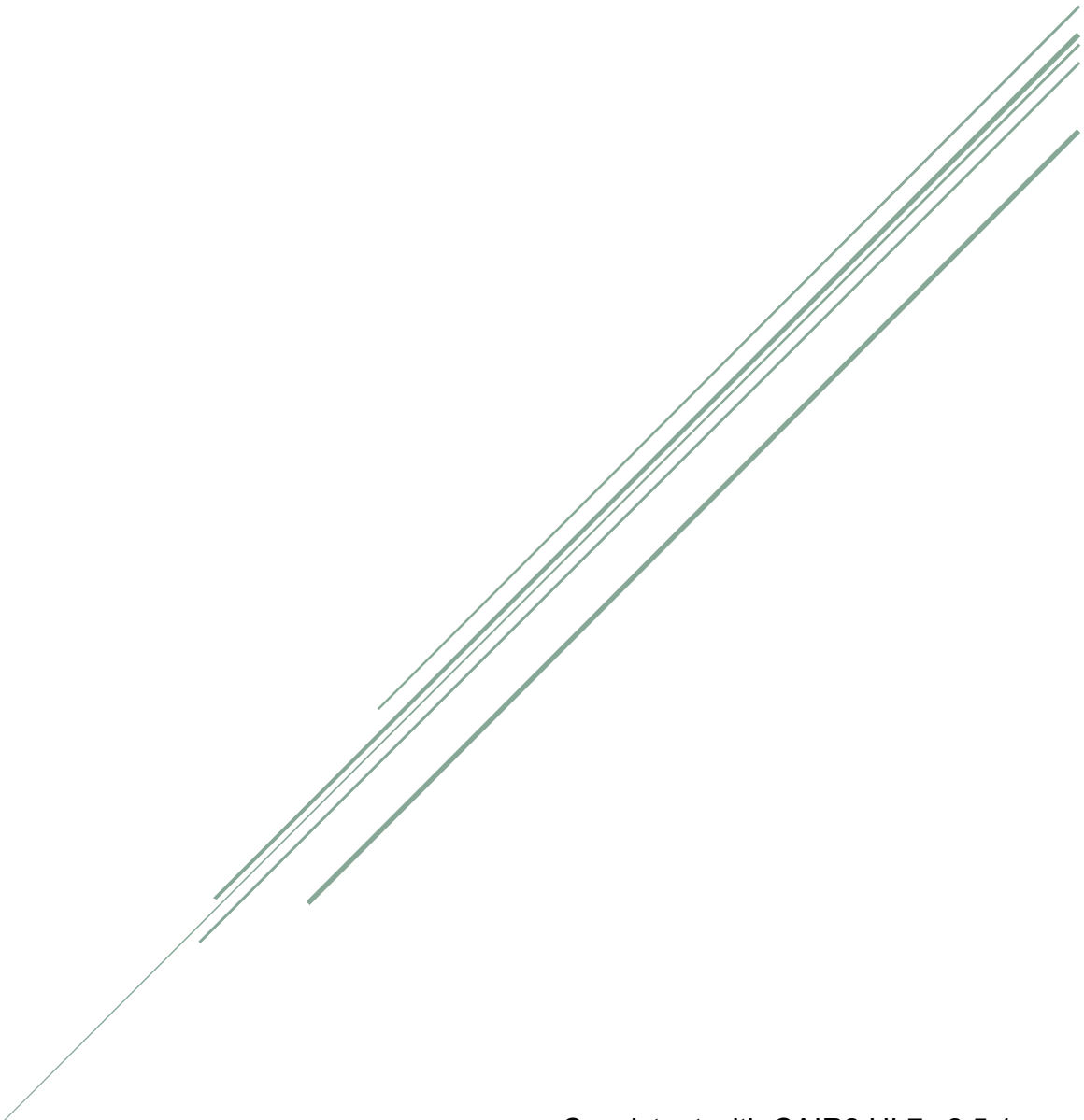




CAIR2 IIS HL7 ACK ERROR GUIDE

ACK / NAK MESSAGE REFERENCE



Consistent with CAIR2 HL7 v2.5.1
California Immunization Registry

REVISION HISTORY

Editor	Edit Date	Version	Changes
T. Lindsey	July 2024	1.0	First published version.

CAIR Data exchange Contact Information

For data exchange questions and support, please email CAIRDataExchange@cdph.ca.gov.

To get the latest information regarding data exchange with CAIR2, please visit the [data exchange page](#) on the CAIR website.

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Response File Introduction

CAIR2 accepts unsolicited HL7 v2.5.1 vaccination record updates (VXU) in real time. CAIR2 uses SOAP web services as the transport mechanism. Details regarding the SOAP format can be found in the [CAIR2 VXU Test Plan](#) found on the [data exchange tech support page](#).

As each submitted HL7 VXU message is received by CAIR2, an HL7 ACK (message accepted) or NAK (message has errors/warnings) is returned back to the submitter. The returned ACK/NAKs will help to guide a Site in making changes to the data formatting until the site can submit a message without errors. These ACK/NAKs follow the format laid out in the [CDC HL7 Version 2.5.1: Implementation Guide for Immunization messaging, Release 1.5](#) and will provide details as to any segments/fields that contain errors. The NAK will also inform as to whether the error constituted a message failure or simply an informational error/warning. **See page 50** of the [CAIR2 HL7 2.5.1 v1.5 Data Exchange Specifications](#) for details on the ACK/NAK format.

Downloading and Monitoring Response Files

There are two possible options in reviewing and monitoring the ACK/NAK messages to make corrections to submissions.

1. If a Site is submitting data to CAIR2 through an intermediary Sending Facility (e.g. HIE, cloud-based EMR, data warehouse, etc.), in some cases the ACK/NAKs returned to the Sending Facility by CAIR2 can be returned and displayed in the EMR. However how those files are handled is dependent on how the sending organization plans to review response files or what capabilities the EMR has for parsing and reviewing response files.
2. The Data Exchange Quality Assurance (DX QA) Manual User Account allows access to the “Check Status” page for monitoring data submissions in real-time. The role of the DX QA is to [verify that your clinic's data is in CAIR](#) and to assist in troubleshooting data submission errors. For more information download the [DX QA quick reference guide](#) and view [training videos](#).

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. On the Data Exchange Check Status page, the results returned will be in the order in which the messages were submitted. After the files have loaded, review the files individually

by clicking the link under the Job Name column or download all the responses that appear on the current page by clicking on the Batch Response button:

The screenshot shows the CAIR2 Exchange Data Status page. The top navigation bar includes links for home, manage access/account, forms, related links, logout, and help desk. The user is logged in as Twila Crook-Lindsey, role CAIR DX Quality Assurance. The page displays search filters for Job Date (Start: 03/30/2023, End: 04/10/2023), Job Status (All), Mode (Realtime), and Message Type (All). A table shows 3 results returned. The first two results are 'Complete' with 'No action required'. The third result is 'Error' with the message 'Message/Segment Rejected - Correct and Resubmit'. A 'Batch Response' button is located at the bottom right of the table.

Job Name	Job Type	Exchange Data Date	Process Start Date	Process End Date	Message Type	Job Status	Job Action
Realtime 04/10/2023 03:04:52	Realtime	04/10/2023 15:04:52	04/10/2023 15:04:52	04/10/2023 15:04:52	QBP	Complete	No action required
Realtime 04/10/2023 03:04:28	Realtime	04/10/2023 15:04:28	04/10/2023 15:04:28	04/10/2023 15:04:29	QBP	Complete	No action required
Realtime 03/30/2023 11:30:10	Realtime	03/30/2023 11:30:10	03/30/2023 11:30:10	03/30/2023 11:30:10	VXU	Error	Message/Segment Rejected - Correct and Resubmit

HL7 Acknowledgment File Structure

Segment	Cardinality	Usage	Comment
MSH	(1..1)	R	Message Header Segment. Every message begins with an MSH.
MSA	(1..1)	R	Message Acknowledgment. Every ACK has at least one MSA segment, unless the MSH-16 field of the VXU is empty or contains "NE".
[{ERR}]	(0..*)	RE	Error description. Included if there are errors

MSA-1 – Acknowledgment code

This field contains an acknowledgment code from table HL70008.

Value (MSA-1)	Description	Comment
AA	Application Accept	Message was accepted without error
AE	Application Error	Message was processed and errors are being reported.
AR	Application Reject	Message was rejected because one of the following occurred: <ul style="list-style-type: none"> Unsupported Message Type Unsupported event code

		<ul style="list-style-type: none"> • Unsupported processing ID • Unable to process for reasons unrelated for format or content
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MSA-2 – Message Control ID

This field echoes the message control ID sent in MSH-10 by the initiating system.

ERR – Error Segment

The error segment reports information about errors or warnings in processing the message. The segment may repeat. Each error or warning will have its' own ERR segment.

Position	Field Name	Status
1	Error code and location	Not supported in v2.5.1
2	Error location	Required
3	HL7 error code	Required (refer to HL7 table 0357)
4	Severity	Required; if error occurs, will use “E”, if warning occurs will use ‘W’, if informational only, an ‘I’ will be used
5	Application Error Code	Required, but may be empty (refer to User Defined table 0533)
6	Application Error Parameter	Optional
7	Diagnostic Information	Optional
8	User Message	Required, but may be empty – Text briefly describing the error that occurred in the VXU message

HL7 Acknowledgement File Format

CAIR2 ACK messages are formatted following the CDC HL7 guidelines for immunization messaging. There are two fields stored in the MSH segment that pertain to acknowledgements: MSH-15 and MSH-16. The MSH-16 field, Application Acknowledgement Type, is used to determine the conditions for sending an acknowledgement message indicating the success or failure to process the data contained in the VXU message.

The following table shows results for the five potential values:

Value	Description	Status
AL	Always	ACK message always sent
NE	Never	ACK message never sent
ER	Error	ACK message sent only on error condition
SU	Success	ACK message sent only on successful load
<blank>	Blank value	If blank MSH-16 treated as 'ER'

NOTE: If MSH-16 is not populated and the message contains no errors, the MSA segment will not be returned. Only the MSH segment will be returned. CAIR recommends sending 'AL' in MSH-16.

Files Received by CAIR2

To review the summary information for the file, click the HL7 251 Response link.

The screenshot shows the CAIR2 web application interface. At the top, there are navigation tabs: home, manage access/account, forms, related links, logout, help desk, and a lightbulb icon. Below the navigation, the user information is displayed: organization SARAH PEDS, user Twila Crook-Lindsey, and role CAIR DX Quality Assurance. The main content area shows a download log for Realtime 04/10/2023 03:04:52. A file named 'HL7 251 Response' (1KB) is listed, with a link to 'Inbound HL7 251 File'. Below the download log, there is a 'Summary Information for: Realtime 04/10/2023 03:04:52' table.

File	User Name	Download Date
HL7 251 Response	Twila Crook-Lindsey	05/15/2023 13:47:22

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

EXAMPLE ACK MESSAGES GENERATED BY CAIR2:

INFORMATIONAL

MSH|^~\&|CAIR IIS2.8.3.6|CAIR IIS|EPIC|DE-000002|20230306113614-0800||ACK^V04^ACK|21859394|P|2.5.1|||NE|NE||||Z23^CDCPHINVS|CAIR IIS|DE-000001
MSA|AA|21859394
ERR||RXA^1|205^Duplicate key identifier^HL70357|I|3^Illogical Value error^HL70533|||**Incoming Immunization already exists in the system.**

WARNING – (a ‘warning’ message will not prevent the immunization from posting in CAIR2)

MSH|^~\&|CAIR IIS2.8.3.6|CAIR IIS|EPIC|DE-000002|20230306113950-0800||ACK^V04^ACK|21859394|P|2.5.1|||NE|NE||||Z23^CDCPHINVS|CAIR IIS|DE-000001
MSA|AE|21859394
ERR||PID^1^10|102^Data type error^HL70357|W|4^Invalid value^HL70533|||**Warning: PID-10 Race Code was not present. Correct and resubmit.**

ERROR (Message Rejected)

MSH|^~\&|CAIR IIS2.8.3.6|CAIR IIS|EPIC|DE-000001|20230306113732-0800||ACK^V04^ACK|21859394|P|2.5.1|||NE|NE||||Z23^CDCPHINVS|CAIR IIS
MSA|AE|21859394
ERR||PID^1^5^2|101^Required field missing^HL70357|E|6^Required observation missing^HL70533|||**MESSAGE REJECTED. REQUIRED FIELD PID-5-2 MISSING. Correct and resubmit**

APPLICATION REJECTION

MSH|^~\&|CAIR IIS2.8.3.6|CAIR IIS|EPIC|DE-000002|20230306114132-0800||ACK^V04^ACK|21859394|P|2.5.1|||NE|NE||||Z23^CDCPHINVS|CAIR IIS|DE-000001
MSA|AR|21859394
ERR||MSH^1^11|202^Unsupported processing ID^HL70357|E|4^Invalid value^HL70533|||**Message Rejected. Invalid Processing Id in MSH-11. Must be "P" only. Correct and resubmit.**

VALID MESSAGE – No Errors or Warnings

MSH|^~\&|CAIR IIS4.0.0|CAIR
IIS||UATPARENT|20160630||ACK^V04^ACK|TEST001|P|2.5.1|||||||CAIR
IIS|UATPARENT
MSA|AA|1791129

HL7 ACK Message Samples:

The remainder of this document is organized by the HL7 VXU Message Segment Structure and the errors/warnings/Information returned in the acknowledgement message.

Each example will have the following components:

Message Acknowledgement (MSA) Segment:

Containing the ACK Codes (AA, AE, AR) and Message Control ID.

Error Segment:

Containing the Error Location (ERL), HL7 Error Code, Error Severity (I, W, E), Application Error Code, and User Message explaining the cause of the error or warning.

How to Fix Component:

Providing guidance on how to correct HL7 VXU message to resubmit.

General Acknowledgement Sample Below:

Error Location (ERL) Highlighted	None
MSA Segment – ACK Code and Message Control ID	MSA AA NewTest
Error Segment – Severity	No Errors
How to Fix	No action is required because the message was accepted without error.

MSH Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	MSH: Message Header Segment
MSA Segment – ACK Code and Message Control ID	MSA AR BAD MESSAGE
Error Segment – Severity	ERR MSH^1 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 Message Rejected. No MSH Segment found in Message. Correct and resubmit.
How to Fix	Insert a valid MSH segment.

Error Location (ERL) Highlighted	MSH-2: Encoding Characters
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS10720010A
Error Segment – Severity	ERR MSH^1^2 200^Unsupported message type^HL70357 E 4^Invalid value^HL70533 Message Rejected. Invalid Encoding Characters. Should match field constraint listed in spec. Contact CAIRDataExchange@cdph.ca.gov.
How to Fix	<p>The MSH segment is the Message Header, every HL7 message begins with an MSH.</p> <p>The MSH-2 field contains the Encoding Characters, if the required values are not populated in the MSH-2 field the message will be rejected.</p> <p>Required Encoding Character values: ^~\&</p>

Error Location (ERL) Highlighted	MSH-2: Encoding Characters
MSA Segment – ACK Code and Message Control ID	MSA AR DEVOPS10720010E
Error Segment – Severity	ERR MSH^1^0 200^Unsupported message type^HL70357 E 4^Invalid value^HL70533 Message Rejected. Malformed Incoming HL7 Message

<p>How to Fix</p>	<p>The MSH segment is the Message Header, every HL7 message begins with an MSH.</p> <p>The MSH-2 field contains the Encoding Characters, if the required values are not populated in the MSH-2 field the message will be rejected.</p> <p>Required Encoding Character values: ^~\&</p>
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<p>Error Location (ERL) Highlighted</p>	<p>MSH-4: Sending Facility</p>
<p>MSA Segment – ACK Code and Message Control ID</p>	<p>MSA AE NewTest-120</p>
<p>Error Segment – Severity</p>	<p>ERR MSH^1 100^Segment sequence error^HL70357 E 3^Illogical Value error^HL70533 Message Rejected. The "Sending Facility" in MSH-4 is not identified as a parent or vendor of the "Sending Responsible Organization" in MSH-22. Contact CAIRDataExchange@cdph.ca.gov</p>
<p>How to Fix</p>	<p>Request CAIR Data Exchange team to set the Organization Relationship in CAIR.</p>

<p>Error Location (ERL) Highlighted</p>	<p>MSH-4: Sending Facility ID</p>
<p>MSA Segment – ACK Code and Message Control ID</p>	<p>MSA AE DEVOPS10720014</p>
<p>Error Segment – Severity</p>	<p>ERR MSH^1^4 207^Application internal error^HL70357 E 4^Invalid value^HL70533 Message Rejected. Organization ID in MSH-4 cannot be found in CAIR2. Correct and resubmit.</p>
<p>How to Fix</p>	<p>The MSH-4 field should contain the Sending Facility ID; data submitters will place their assigned CAIR2 Org Code in the MSH-4 field. This assigned ID should be used for all messages sent.</p> <p>If a value other than the CAIR2 sending facility ID is supplied in the MSH-4 field the message will be rejected.</p>

	The sending facility ID is assigned automatically after registering through the Immunization Messaging Portal.
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Error Location (ERL) Highlighted	MSH-4: Sending Facility ID
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072015
Error Segment – Severity	ERR MSH^1^4 100^Segment sequence error^HL70357 E 3^Illogical Value error^HL70533 Message Rejected. Organization name MSH-4 is null. Correct and resubmit. ERR MSH^1^4 100^Segment sequence error^HL70357 E 3^Illogical Value error^HL70533 Message Rejected. User Org (SOAP username) must match Initiating Org (MSH-4). Correct and resubmit.
How to Fix	The username used in the SOAP credentials must match with the sending ID or CAIR org code that is sent in MSH-4. In this scenario the MSH-4 field was left empty, this is a required field and cannot be left empty or the HL7 VXU message will be rejected. Contact CAIRDataExchange@cdph.ca.gov for assistance.

Error Location (ERL) Highlighted	MSH-7: Date/Time of Message
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-76
Error Segment – Severity	ERR MSH^1^7 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 Message Rejected. Required field MSH-7 missing. Correct and resubmit.
How to Fix	Populate the MSH-7 field with the date and time the message was created. This field is required. The degree of precision must be at least to the second. Format example: YYYYMMDDHHMMSS+/-ZZZZ

Error Location (ERL) Highlighted	MSH-11: Processing ID
MSA Segment – ACK Code and Message Control ID	MSA AR NewTest-71
Error Segment – Severity	ERR MSH^1^11 202^Unsupported processing ID^HL70357 E 4^Invalid value^HL70533 Message Rejected. Invalid Processing Id in MSH-11. Must be "P" only. Correct and resubmit.
How to Fix	MSH-11 is the Processing ID, according to CDC HL7 Table 0103 this field can be populated with a value that defines whether the message is intended for a production (P), training (T), or debugging (D) system. Constrain to 'P'.

Error Location (ERL) Highlighted	MSH-12: Version ID
MSA Segment – ACK Code and Message Control ID	MSA AR NewTest-61
Error Segment – Severity	ERR MSH^1^12 203^Unsupported version ID^HL70357 E 5^Table value not found^HL70533 Message Rejected. Unsupported HL7 Version or trigger in MSH-12. Correct and resubmit.
How to Fix	MSH-12 is the HL7 Version ID, populate this field with 2.5.1 only.

PID Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	PID-3: Patient ID
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-70
Error Segment – Severity	ERR PID^1^3^5 100^Segment sequence error^HL70357 E 4^Invalid value^HL70533 Message rejected. Invalid or Missing patient identifier type (PID-3.5). Correct and resubmit.
How to Fix	Refer to the CAIR2 HL7 Data Exchange Specifications for accepted identifier type codes to populate the PID-3.5 component correctly.

Error Location (ERL) Highlighted	PID-3.5: Patient Identifier Type
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS6282011
Error Segment – Severity	ERR PID^1^3^5 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 Message rejected. Patient identifier type (PID-3.5) required. Identifier type of MR, PI, PN, PRN, or PT accepted. Correct and resubmit.
How to Fix	<p>The identifier type code in PID-3.5 is required and if not submitted the message will be rejected.</p> <p>CAIR2 only accepts identifier type codes MR (medical record number), PI (patient internal identifier), PN (person number) PRN (provider number), or PT (patient external identifier) in PID-3.5.</p> <p>Repetitions are accepted in this field.</p>

Error Location (ERL) Highlighted	PID-5: Patient Name
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-100

Error Segment – Severity	ERR PID^1^5^2 102^Data type error^HL70357 E 4^Invalid value^HL70533 Message Rejected. 88AMES in PID-5.2 is not a valid first name. Correct and resubmit.
How to Fix	Numerical values are not accepted in the patient name field. Each name field has a 50 character length limit in CAIR2. Must be > one character in length or the message will fail.

Error Location (ERL) Highlighted	PID-5: Patient Name
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628010
Error Segment – Severity	ERR PID^1^5 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 MESSAGE REJECTED. REQUIRED FIELD PID-5 First and Last Name are MISSING. Correct and resubmit.
How to Fix	<p>The PID-5 field is intended to contain the patient’s name.</p> <p>The last, first and middle names must be alpha characters only (A-Z). The last name or the given name should not contain the patient's suffix (e.g. JR or III). Numbers, or characters such as “()”, “?”, “!”, etc.. are not allowed in name fields.</p> <p>First name and last name fields must be greater than one character in length.</p> <p>The Patient First and Last Name are required, if missing the message will be rejected.</p>

Error Location (ERL) Highlighted	PID-5.1: Patient Family Name
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628009
Error Segment – Severity	ERR PID^1^5^1 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 MESSAGE REJECTED. REQUIRED FIELD PID-5-1 Last Name is MISSING. Correct and resubmit.

<p>How to Fix</p>	<p>The PID-5 field is intended to contain the patient's name.</p> <p>The last, first and middle names must be alpha characters only (A-Z). The last name or the given name should not contain the patient's suffix (e.g. JR or III). Numbers, or characters such as "(", "?", "!", etc.. are not allowed in name fields.</p> <p>First name and last name fields must be greater than one character in length.</p> <p>The Patient Last Name is required, if missing the message will be rejected.</p>
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<p>Error Location (ERL) Highlighted</p>	<p>PID-5.2: Patient Given Name</p>
<p>MSA Segment – ACK Code and Message Control ID</p>	<p>MSA AE DEVOPS628QBP008</p>
<p>Error Segment – Severity</p>	<p>ERR PID^1^5^2 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 MESSAGE REJECTED. REQUIRED FIELD PID-5-2 First Name is MISSING. Correct and resubmit.</p>
<p>How to Fix</p>	<p>The PID-5 field is intended to contain the patient's name.</p> <p>The last, first and middle names must be alpha characters only (A-Z). The last name or the given name should not contain the patient's suffix (e.g. JR or III). Numbers, or characters such as "(", "?", "!", etc.. are not allowed in name fields.</p> <p>First name and last name fields must be greater than one character in length.</p> <p>The Patient First Name is required, if missing the message will be rejected.</p>

<p>Error Location (ERL) Highlighted</p>	<p>PID-7: Date of Birth</p>
<p>MSA Segment – ACK Code and Message Control ID</p>	<p>MSA AE NewTest-58</p>
<p>Error Segment – Severity</p>	<p>ERR PID^1^7 207^Application internal error^HL70357 E 1^Illogical Date</p>

	error^HL70533 Message Rejected. Invalid date of birth in PID-7 - Must be prior to or equal to today - Correct and resubmit.
How to Fix	PID-7 should be formatted yyyymmdd. Patient date of birth must not be in the future.

Error Location (ERL) Highlighted	PID-7: Date of Birth
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-96
Error Segment – Severity	ERR PID^1^7 102^Data type error^HL70357 E 2^Invalid Date^HL70533 Message Rejected. Invalid date of birth in PID-7. Not a valid date. Correct and resubmit.
How to Fix	PID-7 should be formatted yyyymmdd.

Error Location (ERL) Highlighted	PID-10: Race
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-167
Error Segment – Severity	ERR PID^1^10 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: PID-10 Race Code is an invalid code. Correct and resubmit.
How to Fix	Submitting the patient's race is required under the AB1797 law. A warning ACK will be returned if the race field is empty. Values for the identifier field can be located on the User-defined Table 0005 – Race.

Error Location (ERL) Highlighted	PID-11.1: Patient Street Address
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1347001A

Error Segment – Severity	ERR PID^1^11^1 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: (123'45 DEVOPS LANE) is invalid street address in PID-11.1. No value stored. Correction Requested.
How to Fix	<p>The PID-11 field contains the patient address, if the field is valued the street address, city, state, and zip code are required.</p> <p>When sending special characters in the PID-11.1 component for the patient's street address, a warning will return in the ACK. To prevent this warning, refrain from sending the special characters listed below.</p> <p>Special characters not accepted in CAIR2:</p> <p>`, !, @, \$, %, *, +, =, {, }, [,], ?, >, /</p>

Error Location (ERL) Highlighted	PID-11.1: Patient Street Address
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072002A
Error Segment – Severity	ERR PID^1^11^1 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: Null is not a valid value in PID-11.1. Correct and resubmit.
How to Fix	<p>The PID-11 field contains the patient address, if the field is valued the street address, city, state, and zip code are required.</p> <p>Null is not an acceptable value for the patient street address (PID-11.1).</p> <p>Below is the format accepted in the PID-11 field:</p> <p> 123 Somestreet Ave^^SomeCity^CA^99999^^H </p>

Error Location (ERL) Highlighted	PID-11.1: Patient Street Address
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072003

Error Segment – Severity	ERR PID^1^11^1 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, PID-11.1 should match constraint listed in spec. Correction Requested.
How to Fix	<p>The PID-11 field contains the patient address, if the field is valued the street address, city, state, and zip code are required.</p> <p>The patient street address must follow the format laid out in the spec. or a warning will be returned for the PID-11.1 component.</p> <p>Below is the format accepted in the PID-11 field:</p> <p> 123 Somestreet Ave^^SomeCity^CA^99999^^H </p>

Error Location (ERL) Highlighted	PID-11.1: Patient Street Address
MSA Segment – ACK Code and Message Control ID	MSA AE ACKGuideVXUTest1
Error Segment – Severity	ERR PID^1^11^1 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, PID-11.1 should match constraint listed in spec. Correction Requested.
How to Fix	<p>PID-11.1 is the patient street address.</p> <p>In this scenario, the PID-11.1 component was populated with 56 characters and the street address was not accepted.</p> <p>If the street address field is valued, this component has a 55 character length limit in CAIR2.</p>

Error Location (ERL) Highlighted	PID-11.3: Patient Address City
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072005
Error Segment – Severity	ERR PID^1^11^3 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning:

	(FRES1235NO5) is Invalid city. No value stored. Correction requested.
How to Fix	<p>The PID-11 field contains the patient address, if the field is valued the street address, city, state, and zip code are required.</p> <p>The city must follow the format laid out in the spec. or a warning will be returned for the PID-11.3 component.</p> <p>Below is the format accepted in the PID-11 field:</p> <p> 123 Somestreet Ave^^SomeCity^CA^99999^^H </p>

Error Location (ERL) Highlighted	PID-11.3: Patient Address City
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072009
Error Segment – Severity	ERR PID^1^11^3 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, PID-11.3 should match constraint listed in spec. Correction Requested.
How to Fix	<p>The PID-11 field contains the patient address, if the field is valued the street address, city, state, and zip code are required.</p> <p>The city must follow the format laid out in the spec. or a warning will be returned for the PID-11.3 component.</p> <p>Below is the format accepted in the PID-11 field:</p> <p> 123 Somestreet Ave^^SomeCity^CA^99999^^H </p>

Error Location (ERL) Highlighted	PID-13: Phone Number – Home
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-17
Error Segment – Severity	ERR PID^1^13 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid Client Email. Correct and resubmit.
How to Fix	Confirm email address is formatted correctly.

	<p>Example PID-13 format indicating home phone, cell phone, and email address: ^PRN^PH^^555^5555555~^PRN^CP^^555^2223333~^NET^Internet^someone@email.com </p> <p>Note: Cell phone and/or email address is required for clients to retrieve their California Digital Vaccination Record (DVR).</p>
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Error Location (ERL) Highlighted	PID-22: Ethic Group
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-168
Error Segment – Severity	ERR PID^1^22 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: PID-22 Ethic Group was not present. Correct and resubmit.
How to Fix	<p>The PID-22 field is for the ethnicity of the patient. Submitting the patient’s ethnicity is required under California AB1797 law. A warning ACK will be returned if the ethnicity field is empty. CAIR has implemented a new code for those patients that refuse to state their ethnicity.</p> <p>The identifier for ethnicity can be found in CDCREC table – Ethnic Group.</p>

Error Location (ERL) Highlighted	PID-22.1: Ethnic Group Identifier
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1347002A
Error Segment – Severity	ERR PID^1^22 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, PID-22 should match constraint listed in spec. Correction Requested.
How to Fix	<p>The PID-22 field is for the ethnicity of the patient. Submitting the patient’s ethnicity is required under California AB1797 law.</p>

	<p>A warning ACK will be returned if the ethnicity field is empty, to prevent this warning populate the required PID-22.1 identifier component with one of the below ethnicity codes.</p> <p>US Ethnicity Codes (CDCREC) and Descriptions:</p> <p>2135-2: Hispanic or Latino</p> <p>2186-5: not Hispanic or Latino</p> <p>PHC1175: Prefer Not To Say</p> <p>If PID-22.1 is empty, it will be identified as 'Unknown'.</p>
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Error Location (ERL) Highlighted	PID-24: Multiple Birth Indicator
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-66
Error Segment – Severity	ERR PID^1^24 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, PID-24 should match constraint listed in spec. Correction Requested.
How to Fix	<p>PID-24 is the Multiple Birth Indicator, this field should be valued with one of the below:</p> <p>'Y' for Yes: Indicating the patient was part of a multiple birth. 'N' for No: Indicating the patient was not part of a multiple birth.</p> <p>Left empty: If the multiple birth status is undetermined.</p> <p>If PID-24 is valued with 'Y', then PID-25 should contain the number indicating the patient's birth order.</p> <p>Example: PID-25 = '1' for the first-born child. PID-25 = '2' for the second born child.</p>

Error Location (ERL) Highlighted	PID-25: Birth Order
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-117
Error Segment – Severity	ERR PID^1^25 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid multiple birth order in PID-25. Value ignored. Correction Requested.
How to Fix	<p>PID-25 is the field for Birth Order.</p> <p>If the patient is part of a multiple birth, a numerical value indicating the patient’s birth order is entered in this field.</p> <p>If PID-24 is populated with a ‘Y’, then this field shall be populated.</p>

Error Location (ERL) Highlighted	PID-29: Patient Death Date and Time
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-36
Error Segment – Severity	ERR PID^1^29 102^Data type error^HL70357 E 1^Illogical Date error^HL70533 Message Rejected. Invalid date of Death in PID-29 - precedes DOB in PID-7. Correct and resubmit.
How to Fix	<p>PID-29 is the Patient Death Date and Time.</p> <p>In this scenario the Date of Death is prior to the Date of Birth (PID-7 & PID-29). 1st confirm if the message populated the correct patient record, then verify the date of birth and date of death to make needed date corrections.</p> <p>PID-29 (Date of Death) field must be valued if PID-30 (Patient Death Indicator) field is valued with a ‘Y’ – Yes.</p> <p>If PID-29 is populated, then the value of PD1-16 must be ‘P’ – Permanently Inactive.</p>

Error Location (ERL) Highlighted	PID-29: Patient Death Date and Time
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MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-38
Error Segment – Severity	ERR PID^1^29 102^Data type error^HL70357 E 2^Invalid Date^HL70533 Message Rejected. Invalid Date of Death date format in PID-29. Correct and resubmit.
How to Fix	Patient Death Date and Time field (PID-29) can be formatted as seen below. Format Example: YYYYMMDD Format Example: YYYYMMDDHHMMSS+/-ZZZZ

Error Location (ERL) Highlighted	PID-29: Patient Death Date and Time
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-39
Error Segment – Severity	ERR PID^1^29 102^Data type error^HL70357 E 2^Invalid Date^HL70533 Message rejected. A valid date must be entered in PID-29 when patient status PD1-16 is "P". Correct and resubmit.
How to Fix	PID-29 is the Patient Death Date and Time. In this scenario the PID-29 field was left empty, if the value of PD1-16 is 'P' for Permanently Inactive, then PID-29 must be populated with the Patient Death Date and Time. Format Example: YYYYMMDD Format Example: YYYYMMDDHHMMSS+/-ZZZZ

Error Location (ERL) Highlighted	PID-29: Patient Death Date and Time
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-59
Error Segment – Severity	ERR PID^1^29 207^Application internal error^HL70357 E 1^Illogical Date error^HL70533 Message Rejected. Invalid date of death in PID-29 -future date. Correct and resubmit.
How to Fix	PID-29 is the Patient Death Date and Time.

	<p>In this scenario the Date of Death is a date in the future. The date of death cannot be a future date, it must be the date the message was received or before.</p> <p>If the value of PD1-16 is 'P' for Permanently Inactive, then PID-29 must be populated with the Patient Death Date and Time.</p> <p>Verify the date of death to make needed date corrections.</p> <p>Format Example: YYYYMMDD Format Example: YYYYMMDDHHMMSS+/-ZZZZ</p>
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Error Location (ERL) Highlighted	PID-29: Patient Death Date and Time
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628001
Error Segment – Severity	ERR PID^1^29 100^Segment sequence error^HL70357 E 6^Required observation missing^HL70533 Message Rejected. Date of Death field is Required in PID-29, when Patient Death Indicator is populated with Y in PID-30. Correct and resubmit.
How to Fix	<p>The PID-29 field contains the date and time at which the patient death has occurred.</p> <p>If the PID-30 field (Patient Death Indicator) is valued as “Y” PID-29 (Patient Death Date and Time) is required.</p>

PD1 Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	PD1-13: Protection Indicator Effective Date
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-112
Error Segment – Severity	ERR PD1^1^13 102^Data type error^HL70357 E 2^Invalid Date^HL70533 Message Rejected. in PD1-13. Sharing year must be > 1889. Correct and resubmit.
How to Fix	<p>PD1-13 is the Protection Indicator Effective Date for PD1-12.</p> <p>If the PD1-12 field is valued with 'Y', 'N' to indicate whether patient data should be 'locked', then PD1-13 is required.</p> <p>Format Example: YYYYMMDD</p>

Error Location (ERL) Highlighted	PD1-13: Protection Indicator Effective Date
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-166
Error Segment – Severity	ERR PD1^1^13 207^Application internal error^HL70357 E 1^Illogical Date error^HL70533 Message Rejected. Invalid date of sharing in PD1-13. Must be prior to or equal to today. Correct and resubmit.
How to Fix	<p>PD1-13 is the Protection Indicator Effective Date for PD1-12.</p> <p>If the PD1-12 field is valued with 'Y', 'N' to indicate whether patient data should be 'locked', then PD1-13 is required.</p> <p>When sending the protection indicator effective date, if any time information is sent it will return an error. Time information need not be sent.</p> <p>Format Accepted: YYYYMMDD Format Not Accepted: YYYYMMDDHHMMSS+/-ZZZZ</p>

Error Location (ERL) Highlighted	PD1-16: Immunization Registry Status
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS6282002
Error Segment – Severity	ERR PD1^1^16 101^Required field missing^HL70357 E 4^Invalid value^HL70533 Message Rejected - Patient status must be "P" when a death date is present in PID-29. Correct and resubmit.
How to Fix	<p>The PD1-16 field identifies the current status of the patient in relation to the sending provider organization.</p> <p>If PID-29 (date of death) is populated, then the value of PD1-16 must be 'P' – Permanently Inactive.</p> <p>Refer to User Defined Table 0441 in the CDC Implementation Guide for all accepted values.</p>

NK1 Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	NK1-1: Set ID
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-154
Error Segment – Severity	ERR NK1^1^1 101^Required field missing^HL70357 W 5^Table value not found^HL70533 Warning: Responsible Person Set ID missing in NK1.1. Responsible Person record ignored. Correction requested.
How to Fix	<p>NK1-1 is the Responsible Person Missing Set ID.</p> <p>An empty value in NK1-1 will cause the NK1 segment to be ignored.</p> <p>The NK1-1 field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be '1' (one), for the second occurrence the sequence number shall be '2' (two), and so on...</p> <p>Format Example: NK1 1 NK1 2 </p>

Error Location (ERL) Highlighted	NK1-2: Name
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-149
Error Segment – Severity	ERR NK1^1^2 101^Required field missing^HL70357 W 5^Table value not found^HL70533 Warning: NK1 ignored. Required field NK1-2 missing. Correction requested.
How to Fix	<p>NK1-2 is the Next of Kin Name.</p> <p>The Next of Kin Name field is required, when left empty it will return a warning. If NK1-2 is supplied, then the following components must be valued.</p> <p>Required Components: NK1-2.1 (Family Name)</p>

	NK1-2.2 (Given Name) Required Component, but may be empty: NK1-2.3 (Middle Initial or Name)
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Error Location (ERL) Highlighted	NK1-2.1: Name
MSA Segment – ACK Code and Message Control ID	MSA AR NewTest-79
Error Segment – Severity	ERR NK1^1^2^1 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid responsible party last name (747) in NK1-2.1. No value stored. Correction Requested.
How to Fix	<p>NK1-2.1 is the next of kin or associated parties' family name (last name).</p> <p>In this scenario, the NK1-2.1 component was populated with the value '747'.</p> <p>Numerical values are not accepted in the name field. Each name field has a 50 character length limit in CAIR2. Must be > one character in length or the message will fail.</p> <p>To correct this error, populate the NK1-2.1 component with the next of kin's family name.</p>

Error Location (ERL) Highlighted	NK1-2.1: Name
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-151
Error Segment – Severity	ERR NK1^1^2^1 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: NK1 ignored. Required field NK1-2.1 missing. Correction requested.
How to Fix	<p>NK1-2.1 is the next of kin or associated parties' family name (last name).</p> <p>In this scenario, the NK1-2.1 component was left empty, due to this being a required field a warning is returned in the ACK.</p>

	To correct this error, populate the NK1-2.1 component with the next of kin's family name.
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Error Location (ERL) Highlighted	NK1-2.2: Name
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-150
Error Segment – Severity	ERR NK1^1^2^2 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: NK1 ignored. Required Field NK1-2.2 missing. Correction requested.
How to Fix	<p>NK1-2.2 is the next of kin or associated parties' given name (first name).</p> <p>In this scenario, the NK1-2.2 component was left empty, due to this being a required field a warning is returned in the ACK.</p> <p>To correct this error, populate the NK1-2.2 component with the next of kin's given name.</p>

Error Location (ERL) Highlighted	NK1-3.1: Relationship
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-153
Error Segment – Severity	ERR NK1^1^3 101^Required field missing^HL70357 W 5^Table value not found^HL70533 Warning: NK1 ignored. Required field NK1-3 missing. Correction Requested.
How to Fix	<p>NK1-3.1 is the Relationship that the next of kin or associated party has to the patient.</p> <p>An empty value in NK1-3.1 will cause the NK1 segment warning to return in the ACK.</p> <p>To populate this required field correctly, use the CDC HL7 Table 0063 to locate the relationship value for the NK1-3.1 component.</p>

	NK1-3 Field Example: FTH^Father^HL70063
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ORC Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	ORC-1: Order Control
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-0424243
Error Segment – Severity	ERR ORC^1^1 103^Table value not found^HL70357 W 5^Table value not found^HL70533 Warning: If supplied, ORC-1 should match constraint listed in spec. Correction Requested.
How to Fix	<p>The Order Request (ORC) segment is required for 2.5.1 messages and indicates information about the pharmaceutical order.</p> <p>The ORC-1 field (Order Control) is required and must be constrained to 'RE' (Observations to follow) laid out in the CDC HL7 defined table 0119.</p>

Error Location (ERL) Highlighted	ORC-12: Ordering Provider
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS10720011
Error Segment – Severity	ERR ORC^1^12^2 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Ordering Provider field (ORC-12.2 Last Name) is empty. Correction requested.
How to Fix	<p>The ORC-12 field contains the identity of the provider ordering the immunization. In the case where this segment is associated with a historic immunization record and the ordering provider is not known, then this field should not be populated.</p> <p>NOTE: Only one repetition is allowed in ORC-12. If multiple repetitions are submitted, only the first repetition is read. All other repetitions will be ignored. Each RXA requires exactly one ORC.</p> <p>ORC-12.2 is required and should be valued with the ordering provider's family name (last name), if a value is not supplied a warning will be returned in the ACK.</p>

	<p>An example of the ORC-12 field formatting is as follows:</p> <pre> 1234567890^WELBY^MARCUS^J^^^^^CMS_NPPES^^^NPI^^^^^^^^MD </pre>
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Error Location (ERL) Highlighted	ORC-12: Ordering Provider
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072012
Error Segment – Severity	ERR ORC^1^12^3 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Ordering Provider field (ORC-12.3 First Name) is empty. Correction requested.
How to Fix	<p>The ORC-12 field contains the identity of the provider ordering the immunization. In the case where this segment is associated with a historic immunization record and the ordering provider is not known, then this field should not be populated.</p> <p>NOTE: Only one repetition is allowed in ORC-12. If multiple repetitions are submitted, only the first repetition is read. All other repetitions will be ignored. Each RXA requires exactly one ORC.</p> <p>ORC-12.3 is required and should be valued with the ordering provider’s given name (first name), if a value is not supplied a warning will be returned in the ACK.</p> <p>An example of the ORC-12 field formatting is as follows:</p> <pre> 1234567890^WELBY^MARCUS^J^^^^^CMS_NPPES^^^NPI^^^^^^^^MD </pre>

Error Location (ERL) Highlighted	ORC-12: Ordering Provider
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1072013
Error Segment – Severity	ERR ORC^1^12 101^Required field missing^HL70357 W 4^Invalid

	value^HL70533 Warning: No Assigning Authority entered ORC-12. Correction requested.
How to Fix	<p>The ORC-12 field contains the identity of the provider ordering the immunization. In the case where this segment is associated with a historic immunization record and the ordering provider is not known, then this field should not be populated.</p> <p>NOTE: Only one repetition is allowed in ORC-12. If multiple repetitions are submitted, only the first repetition is read. All other repetitions will be ignored. Each RXA requires exactly one ORC.</p> <p>Both ORC-12.2 and ORC-12.3 components are required and should be valued with the ordering provider's family name (last name) and given name (first name), if a value is not supplied a warning will be returned in the ACK.</p> <p>An example of the ORC-12 field formatting is as follows:</p> <pre> 1234567890^WELBY^MARCUS^J^^^^^CMS_NPPES^^ ^^NP ^^^^^^^^MD </pre>

Error Location (ERL) Highlighted	ORC-17: Entering Organization
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-0424244
Error Segment – Severity	ERR ORC^1^17 100^Segment sequence error^HL70357 W 3^Illogical Value error^HL70533 Warning: Entering Organization (ORC-17) not recognized. Must use CAIR org code in ORC-17. Correction Requested
How to Fix	<p>The ORC-17 field identifies the organization that the enterer belonged to at the time they enter/maintain the order, such as medical group or department. The person who entered the request is defined in ORC-10 (entered by). This will be the CAIR2 Org Code of the Site location.</p> <p>ORC-17 is required but may be empty, if populated, use the CAIR2 Org Code of the facility.</p>

RXA Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	RXA-1: Give sub ID counter
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-0424241
Error Segment – Severity	ERR RXA^1^1 101^Required field missing^HL70357 E 6^Required observation missing^HL70533 MESSAGE REJECTED. REQUIRED FIELD RXA-1 MISSING. Correct and resubmit.
How to Fix	The RXA-1 (Give sub ID counter) field is required and should be constrained to zero '0'. If the RXA-1 field is empty an error will be returned in the ACK and the message will be rejected.

Error Location (ERL) Highlighted	RXA-1: Give sub ID counter
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-0424242
Error Segment – Severity	ERR RXA^1^1 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid RXA-1 value. If supplied, RXA-1 should match constraint listed in the spec. Correction requested.
How to Fix	The RXA-1 (Give sub ID counter) field is required and should be constrained to zero '0'. If any value other than '0' is sent, a warning will be returned in the ACK message.

Error Location (ERL) Highlighted	RXA-2: Administration sub-ID counter
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-95
Error Segment – Severity	ERR RXA^1^2 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid RXA-2.1 value. If supplied, RXA-2.1 should match constraint listed in the spec. Correction requested.
How to Fix	RXA-2 is the Administration sub-ID counter.

	The RXA-2 field must be constrained to '1'.
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Error Location (ERL) Highlighted	RXA-3: Date/time start of administration
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-13
Error Segment – Severity	ERR RXA^1^3 102^Data type error^HL70357 E 1^Illogical Date error^HL70533 RXA segment rejected. Invalid vaccine administration date in RXA-3. Date of birth is after administration date. Correct and resubmit.
How to Fix	<p>RXA-3 is the Date/time start of administration.</p> <p>It is important that this date be the actual date the vaccination was given and not the date that it was recorded or billed. There is no need to send time information as CAIR2 ignores this information.</p> <p>RXA-3 Format: YYYYMMDD</p> <p>To correct this error, first confirm if the patient is matching with a CAIR record that belongs to someone else.</p> <p>If this is the correct record, confirm if the date of birth or the administration date was entered incorrectly and send an update to CAIR2 with the correct date.</p> <p>If the incoming immunization was inserted into an incorrect record, contact the CAIR Data Exchange team at (CAIRDataExchange@cdph.ca.gov) for assistance with a Patient Correction Request.</p>

Error Location (ERL) Highlighted	RXA-3: Date/time start of administration
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-82

Error Segment – Severity	ERR RXA^1^3 102^Data type error^HL70357 E 1^Illogical Date error^HL70533 Message Rejected. Immunization cannot be after patients date of death in PID-29. Correct and resubmit.
How to Fix	<p>RXA-3 is the Date/time start of administration.</p> <p>To correct this error, first confirm if the patient is matching with a CAIR record that belongs to someone else.</p> <p>If this is the correct record, confirm if the date of death or the administration date was entered incorrectly and send an update to CAIR2 with the correct date.</p> <p>If the incoming immunization was inserted into an incorrect record, contact the CAIR Data Exchange team at (CAIRDataExchange@cdph.ca.gov) for assistance with a Patient Correction Request.</p>

Error Location (ERL) Highlighted	RXA-3: Date/time start of administration
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-91
Error Segment – Severity	ERR 205^Duplicate key identifier^HL70357 E 1^Illogical Date error^HL70533 Message Rejected. This patient has existing immunizations with vaccination date(s) after the patient's death date. Correct and resubmit.
How to Fix	<p>RXA-3 is the Date/time start of administration.</p> <p>To correct this error, first confirm if the patient is matching with a CAIR record that belongs to someone else.</p> <p>If this is the correct record, confirm if the date of death or the administration date was entered incorrectly and send an update to CAIR2 with the correct date.</p> <p>If the incoming immunization was inserted into an incorrect patient record, contact the CAIR Data Exchange team at (CAIRDataExchange@cdph.ca.gov) for assistance with a Patient Correction Request.</p>

Error Location (ERL) Highlighted	RXA-3: Date/time start of administration
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-171
Error Segment – Severity	ERR RXA^1^3^1 102^Data type error^HL70357 W 1^Illogical Date error^HL70533 Warning: RXA-3 Administration Date of Service is invalid for the NDC given, please check your records and update immunization.
How to Fix	<p>If an NDC code is sent in the VXU in RXA-5, and the RXA-3 administered date is AFTER the date that the NDC code has been marked as 'inactive' (based on the CDC code set), a warning message will be returned to the submitter. This is only a warning and will not prevent the vaccine from posting in CAIR.</p> <p>Double check the NDC code and update the NDC to the active NDC code.</p> <p>Confirm if the NDC code is inactive according to the CDC code sets, if NDC code is active report IT to (CAIRDataExchange@cdph.ca.gov).</p>

Error Location (ERL) Highlighted	RXA-5: Administered Code
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-85
Error Segment – Severity	ERR RXA^1^5 207^Application internal error^HL70357 W 3^Illogical Value error^HL70533 Warning: The incoming delete immunization does not match an existing immunization in CAIR2. This delete was not processed.
How to Fix	<p>RXA-5 is the Administration Code</p> <p>This field identifies the medical substance administered. CVX or NDC codes are required. Sending an alternate code (NDC or CVX) in the second triplet of RXA-5 is accepted.</p>

	<p>(e.g. 58160-0842-52^Tdap^NDC^115^Tdap^CVX).</p> <p>In this scenario the value 'D' (Delete) was sent in the RXA-21 field rather than the value 'A' (Add), which indicates that an existing vaccine is in the record that needs to be deleted. In the case that a matching immunization is not identified in the record this warning will return in the ACK.</p> <p>To avoid this warning, confirm that a delete was intentionally sent for the immunization, if yes confirm that the vaccine that the delete was sent for exists in the patient record.</p> <p>To delete an immunization in a record, the incoming CVX or NDC code must match an existing immunization in CAIR2 to process this request.</p>
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Error Location (ERL) Highlighted	RXA-5: Administered Code
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-86
Error Segment – Severity	ERR RXA^1^5 207^Application internal error^HL70357 W 4^Invalid value^HL70533 Warning: The sending provider organization does not own the existing matched immunization in CAIR2. This delete was not processed.
How to Fix	<p>RXA-5 is the Administration Code The RXA-5 field identifies the medical substance administered.</p> <p>A provider site can only delete an immunization in CAIR2 that they have given. Prior to sending a delete, first confirm that the CAIR Org. Code populated in MSH-22 and RXA-11.4 is the owner of the vaccine (Owning Provider).</p>

Error Location (ERL) Highlighted	RXA-5.1: Administered Code
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-10

Error Segment – Severity	ERR RXA^1^5^1 102^Data type error^HL70357 E 4^Invalid value^HL70533 RXA Segment Rejected. 715 is an invalid CVX code in RXA-5.1. Correct and resubmit.
How to Fix	<p>RXA-5.1 is the Administered Code Identifier. This required component should be populated with a valid CVX or NDC code.</p> <p>To ensure your organization has CVX and NDC codes mapped according to the CDC Data Code Sets visit:</p> <p>https://www.cdc.gov/vaccines/programs/iis/code-sets.html</p>

Error Location (ERL) Highlighted	RXA-5.1: Administered Code
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-11
Error Segment – Severity	ERR RXA^1^5^1 102^Data type error^HL70357 E 4^Invalid value^HL70533 RXA Segment Rejected. H60C is an invalid NDC in RXA-5.1. Correct and resubmit.
How to Fix	<p>RXA-5.1 is the Administered Code Identifier. This required component should be populated with a valid CVX or NDC code.</p> <p>To ensure your organization has CVX and NDC codes mapped according to the CDC Data Code Sets visit:</p> <p>https://www.cdc.gov/vaccines/programs/iis/code-sets.html</p>

Error Location (ERL) Highlighted	RXA-5.1; Administered Code
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-5.1
Error Segment – Severity	ERR RXA^1^5 103^Table value not found^HL70357 E 5^Table value not found^HL70533 RXA Ignored. The vaccine code in

	RXA-5.1 does not match with the vaccine code in RXA-5.4 Correct and resubmit.
How to Fix	<p>RXA-5.1 is the Administered Code Identifier.</p> <p>This required component should be populated with a valid CVX or NDC code.</p> <p>RXA-5.4 is the Administered Code alternate identifier.</p> <p>If sending a vaccine codes in both RXA-5 triplets, the same vaccine must be sent in both RXA-5.1 and RXA-5.4. (ex: If a CVX code for MMR is sent in RXA-5.1, the corresponding NDC or CPT code for MMR must be sent in RXA-5.4.</p> <p>To ensure your organization has CVX and CPT codes mapped according to the CDC Data Code Sets visit:</p> <p>https://www.cdc.gov/vaccines/programs/iis/code-sets.html</p> <p>In this scenario, the RXA-5.1 component is populated with 54 (Adenovirus Vaccine, Type 4) and the RXA-5.4 component is populated with 90625 which is not the correct value for this vaccine. The correct value for RXA-5.4 should be 90476 according to the CDC's CPT Codes Mapped to CVX Codes.</p>

Error Location (ERL) Highlighted	RXA-6: Administered Amount
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-2B
Error Segment – Severity	ERR RXA^1^6 102^Data type error^HL70357 W 4^Invalid value^HL70533 RXA IGNORED. Invalid administered amount.
How to Fix	<p>RXA-6 is the Administered Amount of vaccine measured in milliliters (mL).</p> <p>In this scenario the value (0.5) in the RXA-6 field was replaced with 'Point Five' which is an invalid administered amount. When sending 'Point Five' in RXA-</p>

	<p>6 it returned a warning in the ACK and caused the RXA segment to be ignored.</p> <p>The format of RXA-6 should be the administered amount in numerical values, if the amount is unknown use '999' in this field.</p> <p>The format for RXA-7 should be the administered units value 'mL'.</p>
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Error Location (ERL) Highlighted	RXA-9: Administration Notes
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-6
Error Segment – Severity	ERR RXA^1^9 101^Required field missing^HL70357 W 6^Required observation missing^HL70533 Missing RXA-9 - Administration Notes - Needed for Inventory Deduction - Immunization Defaulted to Historical - Correction Requested.
How to Fix	<p>RXA-9: is the Administration Notes.</p> <p>This field is used to indicate whether this immunization record is based on a historical record or was given by the reporting provider. It should contain the information source (see NIP-defined table NIP001 – Immunization information source).</p> <p>In this scenario, the RXA-9 field was missing, an empty RXA-9 field will translate to '01' (historical) in CAIR2.</p> <p>This field is required and must be '00' (given vaccine) for inventory decrementing.</p>

Error Location (ERL) Highlighted	RXA-9: Administration Notes
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-169
Error Segment – Severity	ERR RXA^1^9^1 102^Data type error^HL70357 E 4^Invalid value^HL70533 RXA

	Segment Rejected. "00" is not a valid value when RXA-5 is CVX code 177. Correction Requested
How to Fix	<p>PCV10 (CVX Code 177) is a foreign vaccine. All non-US vaccine CVX codes must be sent to CAIR2 as historical (RXA-9.1='01'), if sent as given (RXA-9.1='00') an error message will be returned.</p> <p>A list of the non-US CVX codes can be found on the CDC CVX code set page: https://www2.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cvx</p>

Error Location (ERL) Highlighted	RXA-10: Administering Provider
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-170
Error Segment – Severity	ERR RXA^1^10 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: RXA-10 Administering Provider is required when RXA-9 is an administered immunization (00). Correction Requested.
How to Fix	RXA-10 field (Administered By) is required when RXA-9.1 = '00'. For vaccines sent as new (given) and RXA-10 is empty, a warning message will be sent back to the submitter. This warning will not prevent the immunization from posting in CAIR2.

Error Location (ERL) Highlighted	RXA-10: Administering Provider
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628013C
Error Segment – Severity	ERR RXA^1^10 207^Application internal error^HL70357 3^Illogical Value error^HL70533 Informational: More than one clinician found to match (Jones, Jon).
How to Fix	The RXA-10 field is intended to contain the name and provider ID of the person physically administering the vaccine. This field is required but may be empty.

	If a duplicate clinician is identified, contact the CAIR Data Exchange team at (CAIRDataExchange@cdph.ca.gov) for assistance with merging the duplicate administering provider.
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Error Location (ERL) Highlighted	RXA-10.2: Administering Provider Family Name
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628004
Error Segment – Severity	ERR RXA^1^10^2 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid Administered By last name (RXA-10.2) (@Smith). No value stored. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 11302022 CVX Code:306 Vac Elig:V01.
How to Fix	<p>The RXA-10 field is intended to contain the name and provider ID of the person physically administering the vaccine. If the RXA-9.1 is "00" then RXA-10 is required.</p> <p>The last, first and middle names must be alpha characters only (A-Z). Numbers, or characters such as "(", "?", "!", etc.. are not allowed in name fields. First name and last name fields must be greater than one character in length.</p> <p>The RXA-10.2 component is required and contains the Family Name of the person who administered the vaccine to the patient.</p>

Error Location (ERL) Highlighted	RXA-10.3: Administering Provider Given Name
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628003
Error Segment – Severity	ERR RXA^1^10^3 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid Administered By first name (RXA-10.3) (3 John Joe). No value stored. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 11302022 CVX Code:306 Vac Elig:V01.

<p>How to Fix</p>	<p>The RXA-10 field is intended to contain the name and provider ID of the person physically administering the vaccine. If the RXA-9.1 is "00" then RXA-10 is required.</p> <p>The last, first and middle names must be alpha characters only (A-Z). Numbers, or characters such as "()", "?", "!", etc.. are not allowed in name fields. First name and last name fields must be greater than one character in length.</p> <p>The RXA-10.3 component is required and contains the Given Name of the person who administered the vaccine to the patient.</p>
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<p>Error Location (ERL) Highlighted</p>	<p>RXA-10.4: Administering Provider Middle Initial or Name</p>
<p>MSA Segment – ACK Code and Message Control ID</p>	<p>MSA AE DEVOPS628005</p>
<p>Error Segment – Severity</p>	<p>ERR RXA^1^10^4 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid Administered By middle name (RXA-10.4) (@). No value stored. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 11302022 CVX Code:306 Vac Elig:V01.</p>
<p>How to Fix</p>	<p>The RXA-10 field is intended to contain the name and provider ID of the person physically administering the vaccine. If the RXA-9.1 is "00" then RXA-10 is required.</p> <p>The last, first and middle names must be alpha characters only (A-Z). Numbers, or characters such as "()", "?", "!", etc.. are not allowed in name fields. First name and last name fields must be greater than one character in length.</p> <p>The RXA-10.4 component is optional and contains the Middle Initial or Name of the person who administered the vaccine to the patient.</p>

Error Location (ERL) Highlighted	RXA-11.4: Administered at Location
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-8
Error Segment – Severity	ERR RXA^1^11^4 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: The Administering Organization in RXA-11.4 is not recognized.
How to Fix	<p>RXA-11.4 is the CAIR2 Organization Code for the facility that administered the immunization. This component is required if RXA-9.1 value is '00' (given vaccine).</p> <p>In this scenario the organization code populated in the RXA-11.4 component of the HL7 VXU message does not exist in CAIR resulting in the ACK warning. Since this warning will not prevent the immunization from populating the patient record, CAIR2 will recognize the value in the MSH-22 field as the administering location.</p>

Error Location (ERL) Highlighted	RXA-15: Substance Lot Number
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-90
Error Segment – Severity	ERR RXA^1^15 103^Table value not found^HL70357 W 3^Illogical Value error^HL70533 Added incoming immunization (as Other Inventory), Inventory Deduction skipped due to missing incoming Vaccine Lot. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 12062021 CVX Code:03 Vac Elig:V01.
How to Fix	<p>RXA-15 is the Substance Lot Number.</p> <p>This field contains the lot number of the vaccine administered. It may remain empty if the dose is from a historical record.</p> <p>The RXA-15 field is required for decrementing inventory in CAIR2 through data exchange. Since the RXA-15 field was left empty, the immunization inventory deduct was skipped.</p>

Error Location (ERL) Highlighted	RXA-16: Substance Expiration Date
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628014
Error Segment – Severity	ERR RXA^1^16 102^Data type error^HL70357 W 2^Invalid Date^HL70533 Warning: RXA-16 invalid vaccine Lot Expiration Date.
How to Fix	<p>The RXA-16 field contains the expiration date of the vaccine administered. Note that vaccine expiration date does not always have a “day” component; therefore use the last day of the month for the ‘day’ component of the expiration date.</p> <p>RXA-16 Format: YYYYMMDD There is no need to send time information as CAIR2 ignores this information.</p> <p>In this example an expired vaccine date was sent for a given vaccine, to correct this error verify the substance expiration date and send an update containing the correct vaccine expiration date.</p>

Error Location (ERL) Highlighted	RXA-17.1: Substance Manufacturer
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-88
Error Segment – Severity	ERR RXA^1^17 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: Manufacturer Code. Inaccurate or missing data. No value stored. Correction Requested.
How to Fix	<p>RXA-17 is the Substance Manufacturer (MVX).</p> <p>The RXA-17.1 Identifier Component is required, the MVX code must be of the manufacturer associated with the vaccine code provided in RXA-5.1. A warning ACK will be returned if the MVX does not match with the vaccine code provided.</p> <p>In this scenario RXA-17.1 = ‘PCN’ for CVX Code ‘150’. ‘PCN’ is an inaccurate MVX Code.</p>

	<p>To ensure your organization has Product Name mapped to CVX/MVX according to the CDC Data Code Sets visit:</p> <p>https://www.cdc.gov/vaccines/programs/iis/code-sets.html</p>
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Error Location (ERL) Highlighted	RXA-20: Completion Status
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-31
Error Segment – Severity	ERR RXA^1^20 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: CAIR does not accept a value of NA in RXA-20. RXA will be ignored.
How to Fix	<p>RXA-20 is the Completion Status</p> <p>This field indicates if the dose was successfully given.</p> <p>CAIR2 only accepts and processes complete records (CP) and partial administrations (PA).</p> <p>An empty field will be treated as 'CP'.</p> <p>In this scenario RXA-20 = 'NA', resulting in a warning returned.</p>

Error Location (ERL) Highlighted	RXA-20: Completion Status
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-32
Error Segment – Severity	ERR RXA^1^20 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: CAIR does not accept a value of RE in RXA-20. RXA will be ignored.
How to Fix	<p>RXA-20 is the Completion Status</p> <p>This field indicates if the dose was successfully given.</p> <p>When RXA-18 is empty, CAIR2 accepts and processes the values in RXA-20:</p>

	<p>CP - Complete Records PA - Partial Administrations</p> <p>An empty RXA-20 field will be treated as 'CP'.</p> <p>When RXA-20 is valued with 'RE' for Substance Refusal, CAIR2 accepts and processes 'RE' if RXA-18 is valued with one of the CDC defined table NIP002 values:</p> <ul style="list-style-type: none">00 – Parental decision01 – Religious Exemption02 – Other03 – Patient Decision <p>In this scenario RXA-20 is valued with 'RE', although RXA-18 is empty which resulted in a warning returning in the ACK.</p>
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RXR Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	RXR-1: Route
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-172
Error Segment – Severity	ERR RXR^1^1 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: Incorrect Value for RXR-1.1. Administrative Route. No Value Stored. Use table HL70162 or NCIT values.
How to Fix	Codes for the identifier can be found in HL7-defined Table 0162 – Route of administration.

Error Location (ERL) Highlighted	RXR-1: Route
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-173
Error Segment – Severity	ERR RXR^1^2 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: Incorrect Value for RXR-2.1. Administrative Site. No Value Stored. Use table HL70163. Correction Requested.
How to Fix	Codes for the identifier can be found in HL7-defined Table 0163 – Administrative site.

OBX Segment - ACK Error, Warning, Information:

Error Location (ERL) Highlighted	OBX-1: Set ID
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS628015
Error Segment – Severity	ERR OBX^1^1 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: OBX-1 invalid. Cannot be a number less than '1' or contain alpha characters. Correction Requested.
How to Fix	The OBX-1 field indicates the current sequence number for this OBX as it sits under the RXA. This field must be valued sequentially starting with the value “1” within a message.

Error Location (ERL) Highlighted	OBX-5.1: Observation Value (Vaccine Eligibility Funding Status)
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-160
Error Segment – Severity	ERR RXA^1^15 103^Table value not found^HL70357 W 3^Illogical Value error^HL70533 Warning: Funding source does not match Eligibility. [Inbound Lot Number ui839aa; Inbound Funding Code OBX-5.1= V01]. Inventory in CAIR2 not deducted.
How to Fix	OBX-5 is the Observation Value (Vaccine Eligibility Funding Status). In order for the inventory to decrement correctly in CAIR2 the inventory with matching lot number and funding source need to exist in the CAIR2 Inventory. If Vaccine Funding Eligibility Category is sent in the OBX-5.1 component of the HL7 VXU message, it must match with the funding category of the vaccine lot in the CAIR2 inventory for decrementing to occur.

Error Location (ERL) Highlighted	OBX-5.1: Observation Value (Vaccine Eligibility Funding Status)
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-49

Error Segment – Severity	ERR OBX^1^5^1 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: Vaccine Eligibility Code in OBX-5.1 not valid for patient's age. No value stored. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 10042022 CVX Code:150 Lot Number:ui839aa Vac Elig:V02.
How to Fix	<p>OBX-5 is the Observation Value, this field answers the question that was posed in OBX-3.</p> <p>The OBX-5.1 component should be populated with the identifier for the VFC Eligibility Funding Status.</p> <p>CAIR2 accepts the following values: An empty value will be treated as “Unknown”.</p> <p>V01: not VFC eligible (Private Pay/Insurance) V02: VFC eligible – Medi-Cal/Medi-Cal Managed Care V03: VFC eligible - Uninsured V04: VFC eligible - American Indian/Alaskan Native V05: VFC eligible - Underinsured V07: Public vaccine - State-specific eligibility [317 Special Funds] CAA01: State General Fund Vaccines</p> <p>Refer to the CDC HL7 Table 0064 to review the definitions for the codes and labels above.</p> <p>In this scenario, the patient is greater than 19 years old and therefore does not qualify to receive a vaccine that is eligible for VFC funding.</p> <p>To address this warning returned in the ACK, verify if the correct VFC Eligibility Funding Status was selected and confirm if the patient qualified for the vaccine documented as administered. Make needed corrections and send an update.</p>

Error Location (ERL) Highlighted	OBX-5.1: Observation Value (Vaccine Eligibility Funding Status)
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-50
Error Segment – Severity	ERR OBX^1^5^1 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Vaccine Eligibility Code in OBX-5.1 is not valid. No

	<p>value stored. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 10042022 CVX Code:150 Lot Number:ui839aa Vac Elig:V10. Correction Requested</p>
How to Fix	<p>OBX-5 is the Observation Value, this field answers the question that was posed in OBX-3.</p> <p>The OBX-5.1 component should be populated with the identifier for the VFC Eligibility Funding Status.</p> <p>CAIR2 accepts the following values: An empty value will be treated as “Unknown”.</p> <p>V01: not VFC eligible (Private Pay/Insurance) V02: VFC eligible – Medi-Cal/Medi-Cal Managed Care V03: VFC eligible - Uninsured V04: VFC eligible - American Indian/Alaskan Native V05: VFC eligible - Underinsured V07: Public vaccine - State-specific eligibility [317 Special Funds] CAA01: State General Fund Vaccines</p> <p>Refer to the CDC HL7 Table 0064 to review the definitions for the codes and labels above.</p>

Error Location (ERL) Highlighted	OBX-5.1: Observation Value (Vaccine Eligibility Funding Status)
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-51
Error Segment – Severity	<p>ERR OBX^1^5 202^Unsupported processing ID^HL70357 W 4^Invalid value^HL70533 Warning: Vaccine Eligibility Code in OBX-5.1 is not valid for organization. The incoming immunization that this system retained may be identified by the following characteristics -> Vaccination Date: 10042022 CVX Code:150 Lot Number:UI839AA Vac Elig:V02. No value stored. Contact CAIRDataExchange@cdph.ca.gov</p>
How to Fix	<p>Facilities that are VFC (Vaccine for Children) providers are required to register individually in CAIR2 and should provide the VFC Pin number unique to the facility on the registration application for the State Supplied Vaccine Profile in CAIR2 to reflect the VFC Pin and an active status under the State Supplied Vaccine field.</p>

	<p>This warning typically returns in the ACK when an organization’s account in CAIR2 did not reflect an active status under the State Supplied Vaccine field at the time the VFC eligible vaccine was documented in CAIR.</p> <p>In this scenario, the OBX-5 segment was populated as seen below:</p> <p> V02^Not VFC eligible^HL70064 </p> <p>The OBX-5.1 component is valued with ‘V02’ which is VFC eligible – Medi-Cal/Medi-Cal Managed Care.</p> <p>To correct this warning, verify if the Observation Values and descriptions are mapped correctly for staff to make proper selections in the EMR.</p> <p>Confirm if the patient received a VFC eligible vaccine and if they did then contact the CAIR2 Data Exchange team to inquire if the organization has an active status under the State Supplied Vaccine field in CAIR2.</p> <p>If the EMR mapping is updated to match the CAIR2 Specs. for the VFC Eligibility Funding Status values and descriptions in OBX-5 or if the State Supplied Vaccine field in CAIR2 is updated to reflect that the organization is an active VFC supplier, the organization can then send an updated HL7 VXU message to CAIR2 after all updates are completed and the tables are refreshed.</p>
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Error Location (ERL) Highlighted	OBX-5.1: Observation Value (Vaccine Eligibility Funding Status)
MSA Segment – ACK Code and Message Control ID	MSA AE NewTest-140
Error Segment – Severity	ERR OBX^1^5 102^Data type error^HL70357 W 4^Invalid value^HL70533 Warning: Invalid coding system name. Correction Requested.
How to Fix	OBX-3 is the Observation Identifier , this field poses the question that is answered in OBX-5. Per OBX-3.1 , CAIR2 only accepts ‘64994-7’ for the vaccine funding program eligibility category. All other OBX segments listed on the CDC HL7 Code Table NIP003 will be ignored.

	<p>OBX-5 is the Observation Value, this field answers the question that was posed in OBX-3. Per OBX-5.1, CAIR2 only accepts the VFC Eligibility Funding Status code sets in the CDC HL7 Table 0064.</p> <p>In this scenario, the OBX-3.1 component is populated with the vale '31044-1' for Reaction and the OBX-5.1 component is populated with 'XYZ'. As stated above, since CAIR2 only accepts '64994-7' for the vaccine funding program eligibility category, the reaction will be ignored. In addition, the value 'XYZ' is an invalid reaction code which has returned a warning in the ACK.</p> <p>To review the Vaccine Reaction Concept Codes in the CDC Specification document, refer to Value Set OID - 2.16.840.1.114222.4.11.3289</p>
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Error Location (ERL) Highlighted	OBX-5.1: Observation Value Identifier
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1069A009
Error Segment – Severity	ERR OBX^2^5^1 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: OBX-5 Vaccine Funding Source is required. Correction Requested.
How to Fix	<p>The OBX-5 field contains the program that the patient was eligible for when the vaccine was administered.</p> <p>The Vaccine Funding Source is required, if OBX-5.1 is left empty a warning will return in the ACK.</p> <p>Below are the Vaccine Funding Source options for OBX-5.1, when OBX-3.1 is 30963-3 and their descriptions:</p> <p>PHC70 (or VXC50 for Pharmacy BAP doses) - Private Funds (or Public if Pharmacy BAP doses)</p> <p>VXC51 - Public VFC</p> <p>VXC51 - Public VFC</p> <p>VXC51 - Public VFC</p>

	VXC51 - Public VFC VXC52 - Public non-VFC VXC52 - Public non-VFC
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Error Location (ERL) Highlighted	OBX-5.1: Observation Value Identifier
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1069B416
Error Segment – Severity	ERR OBX^2^5^1 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: OBX-5 Vaccine Funding Source should match constraint listed in spec. Correction Requested.
How to Fix	<p>The OBX-5 field contains the program that the patient was eligible for when the vaccine was administered.</p> <p>If a value other than the below accepted Vaccine Funding Sources are supplied in OBX-5.1 a warning will return in the ACK.</p> <p>Correct the warning in the ACK by utilizing the below accepted Vaccine Funding Sources for OBX-5.1, when OBX-3.1 is 30963-3:</p> <p>PHC70 (or VXC50 for Pharmacy BAP doses) - Private Funds (or Public if Pharmacy BAP doses)</p> <p>VXC51 - Public VFC</p> <p>VXC51 - Public VFC</p> <p>VXC51 - Public VFC</p> <p>VXC51 - Public VFC</p> <p>VXC52 - Public non-VFC</p> <p>VXC52 - Public non-VFC</p>

Error Location (ERL) Highlighted	OBX-5.1: Observation Value Identifier
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1069A008
Error Segment – Severity	ERR OBX^1^5^1 101^Required field missing^HL70357 W 4^Invalid value^HL70533 Warning: OBX-5 Vaccine Eligibility is required. Correction Requested.
How to Fix	<p>The OBX-5 field contains the program that the patient was eligible for when the vaccine was administered.</p> <p>The Vaccine Eligibility is required, if OBX-5.1 is left empty a warning will return in the ACK.</p> <p>Below are the Vaccine Eligibility categories for OBX-5.1, when OBX-3.1 is 64994-7 and their descriptions:</p> <p>V01 - not VFC eligible (Private Pay/Insurance)</p> <p>V02 - VFC eligible – Medi-Cal/Medi-Cal Managed Care</p> <p>V03 - VFC eligible - Uninsured</p> <p>V04 - VFC eligible - American Indian/Alaskan Native</p> <p>V05 - VFC eligible - Underinsured</p> <p>V07 - 317 Funded / VFA</p> <p>CAA01 - State General Fund Vaccines</p>

Error Location (ERL) Highlighted	OBX-5.1: Observation Value Identifier
MSA Segment – ACK Code and Message Control ID	MSA AE DEVOPS1069A003
Error Segment – Severity	ERR OBX^2^5^1 102^Data type error^HL70357 W 3^Illogical Value error^HL70533 Warning: OBX-5 Vaccine Funding Source in OBX-5.1 not valid. Correction Requested.
How to Fix	The OBX-5 field contains the program that the patient was eligible for when the vaccine was administered.

	<p>In this scenario, the warning returned in the ACK because the eligibility and funding source aren't matching.</p> <p>Per the vaccine eligibility and funding source mapping, when the eligibility type is 'V01' (private) then the funding source must be valued PHC70 (Private Funds) or VHC50 (Public, if Pharmacy BAP dose).</p>
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