



***Data Exchange 101:
How to Ensure Your Clinic
Submits Quality Data to CAIR2***

Agenda

- Data Quality
- Data Exchange (DX) Monitoring
- DX Message Types
- DX Message Structure
- How to Read and Interpret ACK Messages
- ACK Error Examples
- Using the DX 'Check Status' Feature
- Questions

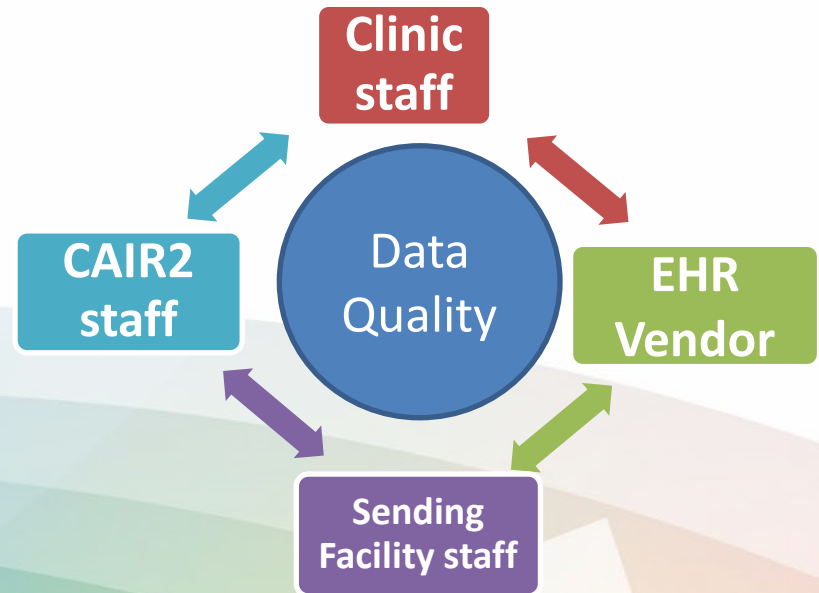
How is Data Quality Defined?

- **Patient Data should be accurate**
 - User Issues - Is patient info entered into EHR correctly?
 - EHR Issues - Is patient info sent to CAIR correctly?
- **Patient Data should be complete**
 - The more patient info CAIR2 has, the higher the probability that incoming data will be merged to the correct patient.
- **Patient Data should be timely**
 - Timely submission guarantees that data is in CAIR by next doctor visit

Maintaining Data Quality

To ensure that only high quality data is sent to CAIR2, sites sending data from EHR systems should make sure their staff:

- Enter accurate and complete patient demographic and shot information into their EHR
- Work with vendor or staff to resolve any data accuracy or integrity issues
- Monitor DE submissions to CAIR2 on an ongoing basis to ensure continuity and accuracy



Know How to Use Your EHR

- Make sure all staff are adequately trained, particularly new staff
- Make sure staff entering all relevant patient info into EHR so data sent to CAIR2 is complete
- Ensure that EHR interface is properly configured for easy and accurate use
 - Drop-down menus are useful but can be improperly used. For instance, a **pediatric** practice sending only **adult** Hep B doses to CAIR2 may indicate staff is selecting the wrong vaccine in an EHR drop-down menu

Work with Your EHR Vendor When Issues Arise

- Don't ignore software issues that may impact proper usage and the accuracy of your patient medical records
- Know your EHR contact and report any issues to them
 - Don't be afraid to ask for help; after all, you are paying them for their service!!
 - Work with them to resolve an EHR issues, including any impacting accurate data submission to CAIR2

Ensure that Patient Info Sent to CAIR2 Is Accurate

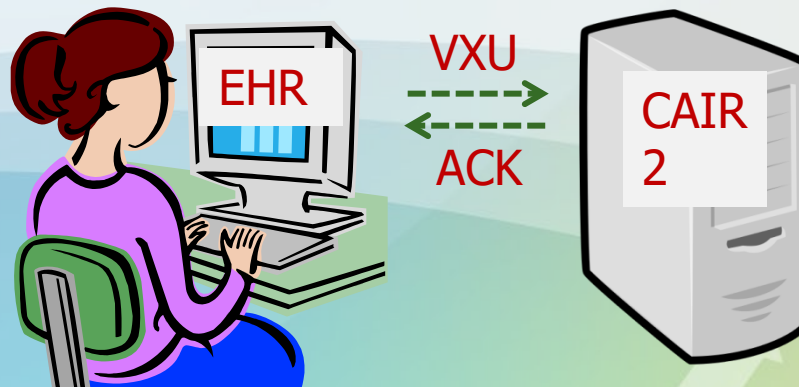
- Confirm data quality by:
 1. Monitoring your clinic's DX message flow and proper data quality either via your EHR or through use of the 'Check Status' screen in CAIR2
 2. Communicate with your vendor if message flow is interrupted or excess errors occur
 3. Periodically look up patients in CAIR2 to make sure the records in CAIR2 accurately reflect what your EHR has sent

Setting Up DX Monitoring in Your Practice

1. Determine how your practice will monitor messaging
 - Some EHRs can receive and display DX acknowledgement (ACK) messages. Consult with your vendor to see if this option is available.
 - If not available, use the DX 'Check Status' function in CAIR2 instead to monitor DX activity. Access requires 'DX Power' user or 'DX QA' user status in CAIR2.
2. Assign primary responsibility for DX monitoring to one of your staff members
 - Implement an ongoing DX data monitoring process, e.g. daily, weekly, randomly chosen messages, failed messages only, etc.
3. Periodically compare selected patient records in your EHR with the same patient records in CAIR2 to ensure that the information in CAIR2 matches the information in your EHR.

DX Message Types

- A **VXU** message (Vaccine Update, Unsolicited) is the HL7 message type that your EHR uses to send patient vaccinations to CAIR2.
- An **ACK** message is an 'acknowledgement' message sent back to your EHR by CAIR2 indicating the message status.



VXU Message Structure

- Multiple segments, multiple fields per segment
 - *MSH* (Message Info)
 - *PID* (Patient Info)
 - *PD1* (Additional Patient Info, e.g. Disclosure, sharing status, etc.)
 - *NK1* (Next of Kin Info)
 - *ORC* (Order Control, required with RXA)
 - *RXA* (Treatment/Vaccination Info)
 - *RXR* (Vaccine Route /Body Site Info)
 - *OBX* (Additional Vaccine Info, e.g. VFC eligibility, VIS date, etc.)
- Fields within segments are pipe-delimited (|), subfields are hat-delimited (^)
- Many Fields, SubFields have defined codesets (e.g. CVX, MVX)

Sample VXU

MSH^~\&|MyEMR|DE-000001| |CAIRLO|20160701123030-
0700||VXU^V04^VXU_V04|CA0001|P|2.5.1|||ER|AL|||Z22^CDCPHINVS|DE-000001

PID|1||PA123456^^^MYEMR^MR||JONES^GEORGE^M^JR^^^L|MILLER^MARTHA^G^^^M|20140227|M||2106-
3^WHITE^CDCREC|1234 W FIRST ST^^BEVERLY
HILLS^CA^90210^^H|^PRN^PH^^^555^5555555||ENG^English^HL70296|||2186-5^not Hispanic or
Latino^CDCREC||Y|2

PD1|||||||02^REMINDER/RECALL – ANY METHOD^HL70215|N|20140730||A|20140730|

NK1|1|JONES^MARTHA^^^L|MTH^MOTHER^HL70063|1234 W FIRST ST^^BEVERLY
HILLS^CA^90210^^H|^PRN^PH^^^555^5555555|

ORC|RE||197023^CMC|||||^Clark^Dave|^Smith^Janet^^^^^^L^^^^^^^MD||||

RXA|0|1|20140730||08^HEPB-PEDIATRIC/ADOLESCENT^CVX|.5|mL^mL^UCUM||00^NEW IMMUNIZATION
RECORD^NIP001|1245319599^Smith^Janet^^^^^CMS^^^NPI^^^^^^^MD|^DE-
000001|||0039F|20200531|MSD^MERCK^MVX||CP|A

RXR|C28161^INTRAMUSCULAR^NCIT|LA^LEFT ARM^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V03^VFC eligibility –
Uninsured^HL70064|||||F|||20110701140500

ACK Message Structure

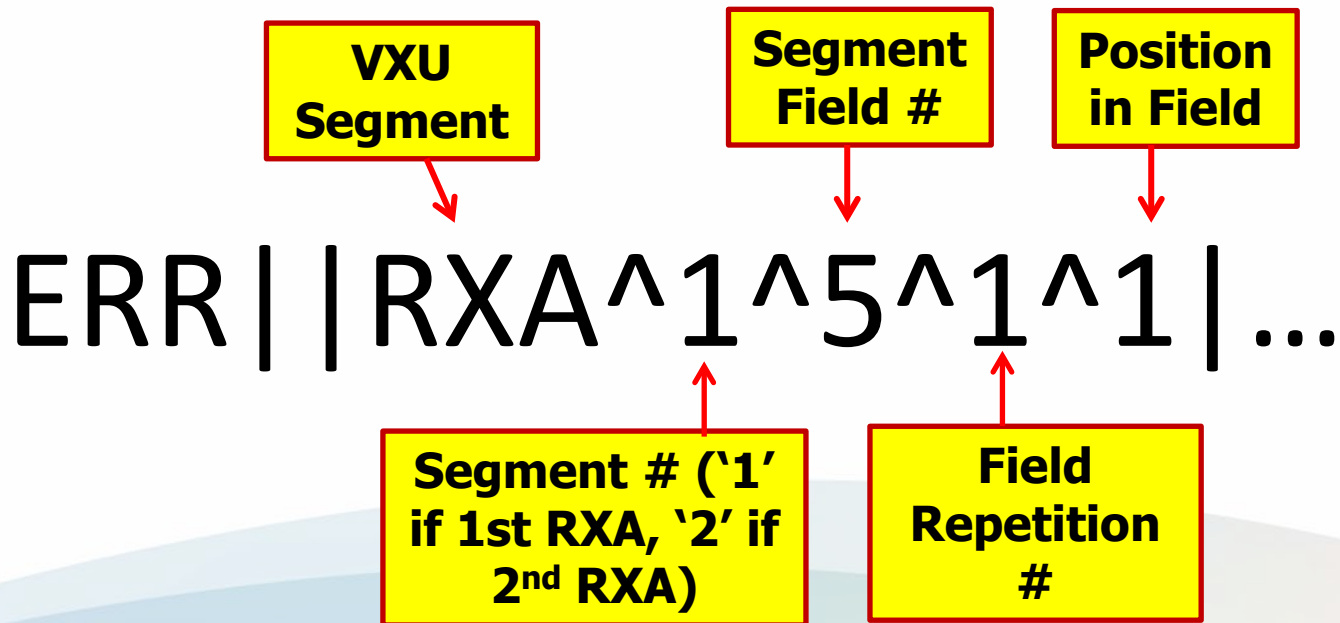
```
MSH|^~\&|CAIR IIS2.8.3.8|CAIR IIS||DE-000001|20230630||ACK^V04^ACK|1791129|P|2.5.1|||||||CAIR IIS|DE-000001  
MSA|AE|1791129  
ERR||RXA^1^10^1^13|0^Message accepted^HL70357|W|5^Table value not found^HL70533|||Informational error - No  
value was entered for RXA-10.13
```

- Three Segments
 - *MSH* (*Message Header segment*)
 - *MSA* (*Acknowledgment segment*)
 - *MSA-1* (Ack Code)
 - ‘AA’ (Accepted)
 - ‘AE’ (Error)
 - ‘AR’ (Error, Rejected)
 - *MSA-2* (Message Control ID)
 - Also in VXU (MSH-10)
 - *ERR* (Error segment - there may be several of these)
 - *ERR-2* (Error Location, e.g. Segment, field)
 - *ERR-3* (HL7 Error Code, see Table HL7 0357)
 - *ERR-4* (Severity: “E” > “W” > “I”)
 - *ERR-5* (Application Error Code, see Table HL7 0533)
 - *ERR-8* (User Message) – Description of error and outcome

How to Read/Interpret Your ACK Messages

- If an ACK message has no 'ERR' segment, message/data was accepted by CAIR2
- If ACK has ERR segment, determine:
 - Error location in message (ERR-2 field)
 - Error severity (ERR-4 field, is it 'E'>'W'>'I'?)
 - Error description (ERR-8 field)
- Report errors/send failed messages to vendor, particularly if:
 - A high percentage of messages have errors (>5%)
 - There are distinct error patterns (multiple messages with the same error)

How to Read ACK ERR-2 (Error Location) Field



So this VXU's error is located in RXA-5.1 (RXA-5 field, 1st position)

ACK Error Example #1

1. Invalid Vaccine Code (ERR-2 = 'RXA-5.1', ERR-4='E', ERR-8= 'RXA IGNORED-invalid code')

ACK

MSH|^~\&|CAIR IIS2.0.0.0|CAIR IIS||DE-007957|20161128||ACK^V04^ACK|420122|P|2.5.1|||||||CAIR IIS|DE-007957

MSA|**AE**|420122

ERR||**RXA^1^5^1^1**|102^Data type error^HL70357|**E**|4^Invalid value^HL70533||**RXA IGNORED - 368 is an invalid CVX code**

VXU

MSH|^~\&|TESTAPP|DE-007957||IMMUM|CAIR2|20161128||VXU^V04^VXU_V04|420122|P|2.5.1|||NE|AL|||||DE-007957|

PID|1||20130399^^^HLN^MR||Short^Keith^^^^L||20040501|M||2054-5^African American^HL70005|1096 Lazy Drive^^New Deal^CA^94607-4944^USA||^PRN^PH^^^555^7077279|||||||2186-5^not Hispanic^CDCREC

PD1|||^^^NG|1600000000^Mean Joe^Greene^^^^NG^^^NP|||||N|20161001

NK1|1|Howard^Natalie^^^^L|MTH^Mom^HL70063|4038 Mozart Drive^^El Sobrante^CA^94803^^L

ORC|RE|||||||1595^Carpio^Francisco^^^^^NG||1417991407^Carpio^Francisco^Camaclang^^^^NG^^^NP

RXA|0|1|20161001|20161001|**368**^meningococcal MMVC4^CVX^^^|0.500|mL^Milliliters^UCUM||00^New immunization record^NIP001|1417991407^SMITH^JOHN^^^^^NG^^^XX|43GARDNERSC^^^||M15167-vfc|20171031|SKB^GlaxoSmithKline^MVX|||CP|A

RXR|IM^Intramuscular^HL70162|LD^Left Deltoid^HL70163

OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V02^VFC eligible - Medi-Cal/Medi-Cal Managed^HL70064|||||F|||20161001104000||VXC40^Eligibility captured at the immunization level^CDCPHINVS

OBX|2|TS|29768-9^Date vaccine information statement published^LN|2|20111014|||||F

ACK Error Example #2

2. Missing OBX-3, leading to RXA rejection (ERR-2 field = 'OBX-3, RXA-0', ERR-4 field = 'E', ERR-8 field = 'RXA rejected because of invalid OBX')

ACK

MSH|^~\&|CAIR IIS2.0.0.0|CAIR IIS||DE-007957|20161125||ACK^V04^ACK|410103|P|2.5.1|||||CAIR IIS|DE-007957
MSA|AE|410103

ERR|1|**OBX^1^3^0**|101^Required field missing^HL70357|**E**|6^Required observation missing^HL70533|||INACCURATE OR MISSING
OBSERVATION VALUE. NO VALUE STORED.

ERR|2|**OBX^1^3^0**|101^Required field missing^HL70357|**W**|6^Required observation missing^HL70533|||**OBX #1 IGNORED -
REQUIRED FIELD OBX-3 MISSING.**

ERR|3|**RXA^1^^0**|102^Data type error^HL70357|**E**|6^Required observation missing^HL70533|||**RXA #1 rejected because of invalid
OBX**

VXU

MSH|^~\&|TESTAPP|DE-007957|IMMUM|CAIR2|20161125||VXU^V04^VXU_V04|410103|P|2.5.1||NE|AL|||||DE-007957|
PID|1||20130396^^^HLN^MR||Mitchell^Sophie^^^^L|20060501|M||2076-8^Hawaiian^HL70005|2622 Crystal Swale|^Semiahmoo^CA^990415-
8494^USA|^PRN^PH^^^555^5132338|||||||2186-5^not Hispanic^CDCREC
PD1||^NG|1500000000^Shatner^William^^^^^NG^^^NP|||||N|20161001
NK1|1|Bower^Katherine^^^^L|MTH^Mom^HL70063|324 Warwick Ave^^Oakland^CA^94610^^L
ORC|RE|||||||1595^Carpio^Francisco^^^^^NG||1417991407^Carpio^Francisco^Camaclang^^^^^NG^^^NP
RXA|0|1|20161001|20161001|168^meningococcal MVC4^CVX^^^|0.500|mL^Milliliters^UCUM||00^New immunization
record^NIP001|1417991407^SMITH^JOHN^^^^^NG^^^XX|43GARDNERSC^^^||M15167-vfc|20171031|SKB^GlaxoSmithKline^MVX||CP|A
RXR|IM^Intramuscular^HL70162|LD^Left Deltoid^HL70163
OBX|1|CE|**???**|1|V02^VFC eligible - Medi-Cal/Medi-Cal Managed^HL70064|||||F||20161001104000||VXC40^Eligibility captured at the
immunization level^CDCPHINVS
OBX|2|TS|29768-9^Date vaccine information statement published^LN|2|20111014|||||F

ACK Error Example #3

3. MSH-11 - Incorrect Processing ID Type (MSA-1 field = 'AR', ERR-2 field = 'MSH-11', ERR-4 field = 'E', ERR-8 field = 'MESSAGE REJECTED. INVALID PROCESSING ID. MUST BE P) غ غ

ACK

MSH|^~\&|CAIR IIS2.0.0.0|CAIR IIS||DE-007957|20161130||ACK^V04^ACK|420182|P|2.5.1|||||CAIR IIS|DE-007957
MSA|AR|420182

ERR||MSH^1^11|202^Unsupported processing ID^HL70357|E|4^Invalid value^HL70533||MESSAGE REJECTED. INVALID PROCESSING ID. MUST BE P غ.

ERR||MSH^1^11|103^Table value not found^HL70357|W|5^Table value not found^HL70533||Informational Error - If supplied, MSH-11 should match constraint listed in spec

VXU

MSH|^~\&|TESTAPP|DE-007957|IMMUM|CAIR2|20161128||VXU^V04^VXU_V04|420182|Z|2.5.1||||NE|AL|||||DE-007957|
PID|1||20130399^HLN^MR||Short^Keith^L||20040501|M||2054-5^African American^HL70005|1096 Lazy Drive^^New Deal^CA^94607-4944^USA|^PRN^PH^555^7077279|||||2186-5^not Hispanic^CDCREC||
PD1||^NG|1600000000^Mean Joe^Greene^NG^NP|||||N|20161001|||
NK1|1|Howard^Natalie^L|MTH^Mom^HL70063|4038 Mozart Drive^EI Sobrante^CA^94803^L
ORC|RE|||||1595^Carpio^Francisco^NG||1417991407^Carpio^Francisco^Camaclang^NG^NP
RXA|0|1|20161001|20161001|168^meningococcal MVC4^CVX^0.500|mL^Milliliters^UCUM||00^New immunization record^NIP001|1417991407^SMITH^JOHN^NG^XX|43GARDNERSC^||M15167-vfc|20171031|SKB^GlaxoSmithKline^MVX||CP|A
RXR||IM^Intramuscular^HL70162|LD^Left Deltoid^HL70163
OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V02^VFC eligible - Medi-Cal/Medi-Cal Managed^HL70064||||F||20161001104000||VXC40^Eligibility captured at the immunization level^CDCPHINVS
OBX|2|TS|29768-9^Date vaccine information statement published^LN|2|20111014||||F

Using DX Check Status to Monitor ACK Messages

- Available to Regular, Power, and 'DX QA' users
- Login using your CAIR ID, Username, and Password

CAIR2 California Immunization Registry

HOME USER RESOURCES RELATED LINKS TRAINING

TRN
.....

Org Code:

Username:

Password:

Login

DO NOT ATTEMPT TO LOG ON UNLESS YOU ARE AN AUTHORIZED USER.
.....

Forgot Password?

Hot Topics [HT-1](#)

Welcome to the California Immunization Registry, CAIR! *Posted on 08/19/2015*

If you are an authorized user, please login using your unique combination of Organization Code, Username, and Password.

If you are a new user, please visit the training tab above to access training options. If you are from an organization requesting access for the first time, go to the [CAIR Enrollment](#) page to enroll. For additional information, contact the CAIR Help Desk at 800-578-7889 or CAIRHelpDesk@cdph.ca.gov. Hours are 8:00 a.m. - 5:00 p.m. Monday through Friday, excluding government holidays.

This site will work optimally for users logging in with Internet Explorer browsers versions 8 or higher, as well as Chrome, Safari or Firefox. If you are using alternate browsers and experience display issues, please consider switching to one of the supported browsers.

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Using DX Check Status to Monitor ACK Messages

- Click 'Check status' under *Data Exchange*

PRD 2.8.3.8

Patients
 patient search
 manage patient status

Reports
 reminder / recall
 check reminder status
 cocasa extract
 afix reports
 check request status
 ad hoc list report
 ad hoc count report
 ad hoc report status
 vaccine eligibility
 assessment report
 check assessment
 benchmark report
 check benchmark
 manage custom letters
 group patients
 check group status
 check reminder list
 check vaccine elig status
 accountability report
 request
 check vaccine
 accountability
 state supplied flu report
 state supplied vaccine
 report

Inventory
 doses administered

Data Exchange
 check status

organization [dropdown] • user [dropdown] • role [dropdown]

announcements:

NEW 04/17/2021 ~ [CAIR2 Maintenance Sunday, April 18, 6 AM to 10 AM, pacific](#)
NEW 04/11/2021 ~ [Maintenance April 11th 2021 for maintenance from 4PM to 6PM](#)

release notes:

06/27/2021 ~ [Release Version 2.7.5](#) California Immunization Registry
[more release notes](#)

Vaccine Order/Transfer Notification ...

Type	Shipped	Awaiting Return Shipment	Rejected
Order(s)		No Order Notification	
Transfer(s)		No Transfer Notification	

Active Inventory that is Going to Expire or Expired Lots with a Quantity ...

Site Name	Trade Name	Lot Number	Funding Source	On Hand	Exp Date
No vaccines are currently set to expire.					

Inventory that is Running Low by Vaccine Group ...

Vaccine Group	Funding Source	Quantity On Hand
No vaccine groups have a low inventory.		

Inventory that is Running Low by Trade Name ...

Trade Name	Funding Source	Quantity On Hand
No trade names have a low inventory.		

[Privacy Policy Statement](#)

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Using DX Check Status to Monitor ACK Messages

- The Exchange Data Status screen will automatically default the Job Date to Today's Date and will display all messages. Edit the Job Start/End Date, Job Status, Mode, Message Type, Job Time Start/End, and or Job Action as needed.
- Users can also search by the Message Control ID (MSH-10) if known

The screenshot shows the CAIR2 Exchange Data Status interface. At the top, there is a navigation bar with links for home, manage access/account, forms, related links, logout, and help desk. Below this is a user profile bar showing organization, user, and role. The main content area is titled 'Exchange Data Status' and contains several search filters: Job Date (Start Date: 03/21/2023, End Date: 03/21/2023), Job Status (All), Mode (Realtime), Message Type (All), Job Time (Start Time: 12:00, End Time: 11:59, AM/PM selection), MSH-10 Search (empty field), and Job Action (All). A 'Search' button is located to the right of the Message Type filter. Below the filters, it indicates 'Results Returned 1 - 2 of 2' and 'Page 1 of 1'. A table displays the results with columns for Job Name, Job Type, Exchange Data Date, Process Start Date, Process End Date, Message Type, Job Status, and Job Action. Two results are shown, both with a 'Message Accepted - Error Correction Requested' status. 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 03/21/2023 12:42:58	Realtime	03/21/2023 12:42:58	03/21/2023 12:42:58	03/21/2023 12:42:58	VXU	Complete	Message Accepted - Error Correction Requested
Realtime 03/21/2023 12:40:15	Realtime	03/21/2023 12:40:15	03/21/2023 12:40:15	03/21/2023 12:40:15	VXU	Complete	Message Accepted - Error Correction Requested

Using DX Check Status to Monitor ACK Messages

- The *Job Name* lists each messages received by CAIR2 from your Site during the period shown
- The status of messages that are COMPLETE can be viewed by clicking on the *Job Name* hyperlink

Exchange Data Status

Job Date: Start Date 03/21/2023, End Date 03/21/2023, Job Status: All, Mode: Realtime, Message Type: All

Job Time: Start Time 12:00, End Time 11:59, AM/PM: AM, MSH-10 Search: [], Job Action: All

Results Returned 1 - 2 of 2

Job Name	Job Type	Exchange Data Date	Process Start Date	Process End Date	Message Type	Job Status	Job Action
Realtime 03/21/2023 12:42:58	Realtime	03/21/2023 12:42:58	03/21/2023 12:42:58	03/21/2023 12:42:58	VXU	Complete	Message Accepted - Error Correction Requested
Realtime 03/21/2023 12:40:15	Realtime	03/21/2023 12:40:15	03/21/2023 12:40:15	03/21/2023 12:40:15	VXU	Complete	Message Accepted - Error Correction Requested

Page 1 of 1

Batch Response

Using DX Check Status to Monitor ACK Messages

- The *Summary Information* table reveals whether the patient record has been updated and what information was added or updated.
- Both the submitted HL7 VXU message ('Inbound HL7 251 File') and the HL7 ACK ('HL7 251 Response') sent back to the submitter can be viewed.

The screenshot shows the CAIR2 web application interface. At the top, there are navigation tabs: home, manage access/account, forms, related links, logout, and help desk. Below these are fields for organization, user, and role. The main content area is divided into sections:

- Download Files for: Realtime 03/21/2023 12:42:58**: This section contains two links: [HL7 251 Response](#) and [Inbound HL7 251 File](#). A red arrow points to the [HL7 251 Response](#) link.
- Download Log for: Realtime 03/21/2023 12:42:58**: This section contains a table with columns for File, User Name, and Download Date. The table is currently empty, showing "No Download Logged".
- Summary Information for: Realtime 03/21/2023 12:42:58**: This section contains a table with columns for Description, Patient, Immunization, Comment, Event, and TB Test. A red arrow points to the header of this table.

On the left side of the interface, there is a sidebar menu with the following categories and items:

- PRD 2.8.3.8**
- Patients**
 - patient search
 - manage patient status
- Reports**
 - reminder / recall
 - check reminder status
 - cocasa extract
 - check request status
 - afix reports
 - ad hoc list report
 - ad hoc count report
 - ad hoc report status
 - vaccine eligibility
 - assessment report
 - check assessment
 - benchmark report
 - check benchmark
 - manage custom letters
 - group patients
 - check group status
 - check reminder list
 - check vaccine elig status
 - accountability report request
 - check vaccine accountability
 - state supplied flu report
 - state supplied vaccine report
- Inventory**
 - doses administered
- Data Exchange**
 - check status

At the bottom of the interface, there is a [Privacy Policy Statement](#) link and a copyright notice: Copyright © 1999 - 2023 State of Wisconsin. All rights reserved.

Set Up A Schedule to Monitor DX!

- Choose at least one day per week to monitor messages
- Randomly choose 10 messages and review their status
- If 2 or more (>20%) have failed (message is rejected), open a handful more and determine if the failed messages show a consistent pattern.
- Communicate findings to your EHR vendor for review and correction.

To Request A New Account

- Go to [CDPH.ca.gov/CAIR](https://www.cdph.ca.gov/CAIR)
- Hover over **CAIR Users** and select **Account Update**

The screenshot shows the CAIR website interface. At the top, there is a navigation bar with links for 'en Español', 'Contact Us', 'About', 'News & Media', and 'Jobs/Careers'. A search bar and a 'Select Language' dropdown are also present. Below the navigation bar is the California Department of Public Health logo and a search bar. The main content area features a blue banner for 'CALIFORNIA IMMUNIZATION REGISTRY'. A navigation menu on the left includes 'CAIR', 'Join CAIR', 'CAIR Users', 'Data Exchange', 'Training & Resources', and 'Finding Records'. The 'CAIR Users' menu item is highlighted, and a dropdown menu is open, showing options: 'CAIR Sign In', 'Account Update', 'CAIR User FAQs', 'Local CAIR Representatives (LCR)', 'CAIR Help Desk', 'Coverage Levels (COCASA)', and 'CAIR2 User Group'. The 'Account Update' option is highlighted in red. Below the navigation menu, there is a section for 'Hours' and contact information for the CAIR Helpdesk. The main content area features a 'Welcome to the CAIR Information Website' heading, a photo of diverse people, and a 'CAIR California Immunization Registry' logo. Below this, there is a paragraph describing the CAIR2 system and a heading for 'CAIR2 School User Access Is Still Available'.

CAIR
Join CAIR
CAIR Users
Data Exchange
Training & Resources
Finding Records

Hours:
9am–4pm Monday to Thursday
10am–4pm Friday

CAIRHelpdesk@cdph.ca.gov
Phone: 800-578-7889
Fax: 888-436-8320

Welcome to the CAIR Information Website

CAIR Sign In
Account Update
CAIR User FAQs
Local CAIR Representatives (LCR)
CAIR Help Desk
Coverage Levels (COCASA)
CAIR2 User Group

The California Immunization Registry (CAIR2) is a secure, confidential, statewide computerized immunization information system for California residents.

CAIR2 School User Access Is Still Available

Questions?

- CAIRDataExchange@cdph.ca.gov
- CAIRDataQuality@cdph.ca.gov