

Welcome to the CIC Education Hour



CIC Education Hour

California Immunization Registry Update - 2022

Today's Host and Moderator



Meg Dorsey, RN, BSN, PHNII

CIC Education Committee Chair



Webinar Information

All lines will be muted during the program

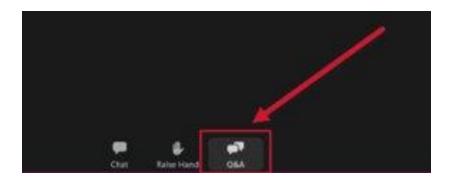
 Webinar is being recorded and link will be posted to the California Immunization Coalition website: https://www.immunizeca.org/ and the CIC YouTube page:

https://www.youtube.com/channel/UCklkZ1SZQNQLcpmNpeQpDAg



Questions for Presenter

- To ask a question or leave a comment use the Q&A feature located at bottom of screen
- Questions will be answered after the presentation, as time permits
- Additional questions may be sent to <u>info@immunizeca.org</u> for email response after the webinar.





Frequently Asked Questions

1. Where can I watch this presentation again?



A copy will be posted on CIC's YouTube channel

2. Will this presentation be posted somewhere?



Yes - a copy will be posted on CIC's website

You can access CIC's YouTube channel at: www.lmmunizeCA.org/Education-Hour/

Or directly at CIC's YouTube page https://www.youtube.com/channel/UCklkZ1SZQNQLcpmNpeQpDAg

Guest Speaker





Michael S. Powell, MSc

Chief, Registry and Assessment Section Immunization Branch Division of Communicable Disease Center for Infectious Diseases California Department of Public Health



California Immunization Registry (CAIR) Update

Michael S. Powell, MSc Chief, Registry and Assessment Section March 2022

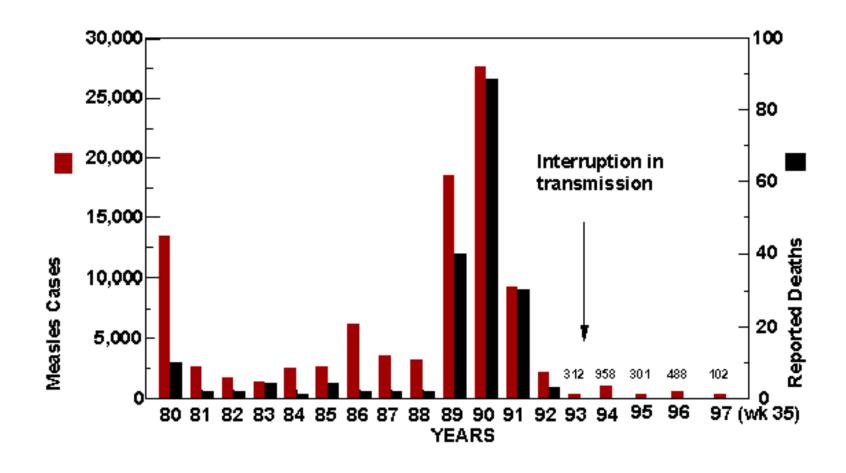


CAIR Overview

- Historical Background
- Current CAIR Status
 - IIS Features
 - Statute, including Disclosure/Sharing
 - Enrollment/User roles
 - Current Numbers
 - Data and Software Issues
 - Bidirectional Status
 - Coming Attractions
- Digital COVID Vaccine Record



U.S. Measles Outbreak-1989-91





Measles Outbreak Response?

- Two significant developments:
 - Vaccine for Children (VFC) Program free vaccine for poor kids (1994-1995)
 - Computerize immunization record keeping



U.S. Immunization Information Systems (IIS) History

- All Kids Count (Robert Wood Johnson)
 - Develop immunization monitoring and follow-up systems as a strategy to improve and sustain immunization coverage rates
 - 38 grantees
 - 17 state health departments
 - 21 local/city health departments

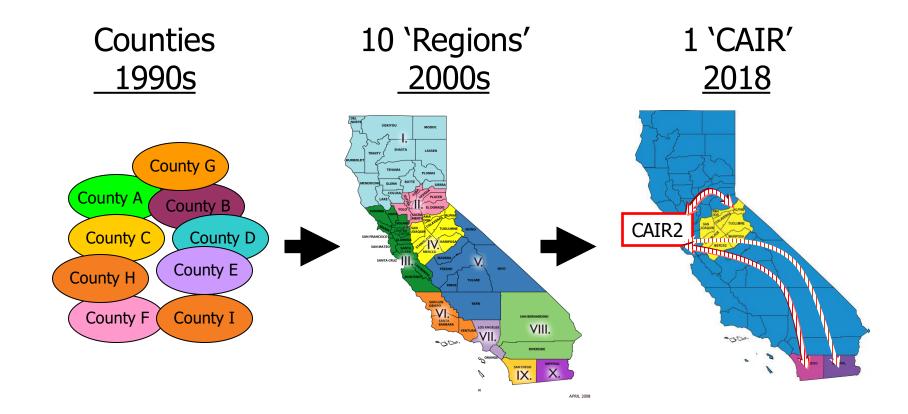


All Kids Count/ RWJ Foundation 1991-2004

- Funded 38 projects to build IZ registries
- 7 participants were CA counties:
 - San Bernardino County, 1992-2000
 - San Diego County, 1992 -1998
 - San Luis Obispo County, 1992-1998
 - Santa Barbara County, 1992-1998
 - Santa Clara County, 1998-2004
 - Santa Cruz County, 1992-1998
 - Los Angeles County, 1992-1998



CA IIS History





The CAIR System - Today

- 7 registries
 consolidated into
 CAIR2, new
 software, hosted at
 CDPH (4/17)
- Imperial added 4/18
- Data sharing has been delayed by COVID





CAIR - Statute

- Health & Safety 120440
- Voluntary, all ages
- Authorized users:
 - Health care providers
 - Schools
 - Childcare facilities
 - Local health departments
 - WIC
 - Health care plans (read-only, HEDIS)
 - Foster care agencies
 - County welfare departments



CAIR Standard Disclosure

- Patient must receive <u>before</u> data can be shared with CAIR
- Discusses benefits and patient rights
- Right to "Lock" record to prevent other users from viewing





Immunization Registry Notice to Patients and Parents

Immunizations or 'shots' prevent serious diseases. Keeping track of shots you have received can be hard. It's especially hard if more than one doctor gave them. Today, doctors use a secure computer system called an immunization registry to keep track of shots. If you change doctors, your new doctor can use the registry to see the shot record. It's your right to choose if you want shot records shared in the California Immunization Registry.

How Does a Registry Help You?

- Keeps track of all shots, so you don't miss any or get too many
- · Sends reminders when you or your child need shots
- . Gives you a copy of the shot record from the doctor
- . Can show proof about shots needed to start child care, school, or a new job

How Does a Registry Help Your Health Care Team?

Doctors, nurses, health plans, and public health agencies use the registry to:

- See which shots are needed
- Prevent disease in your community
- Remind you about shots needed

Help with record-keeping

Can Schools or Other Programs See the Registry?
Yes, but this is limited. Schools, child care, and other agencies allowed under California law may.

- . See which shots children in their programs need
- Make sure children have all shots needed to start child care or school

What Information Can Be Shared in a Registry?

- patient's name, sex, and birth place
 parents' or quardians' names
- limited information to identify patients
- details about a patient's shots

What's entered in the registry is breated like other private medical information. Misuse of the registry can be punished by law. Under California law, only your doctor's office, health plan, or public health department may see your address and donon enumber.

Patient and Parent Rights

It's your legal right to ask:

- not to share your (or your child's) registry shot records with others besides your doctor*
- . not to get shot appointment reminders from your doctor's office
- . to look at a copy of your or your child's shot records
- . who has seen the records or to have the doctor change any mistakes

If you DO want your or your child's records in the registry, do nothing. You're all done.

If you DO NOT want your doctor's office to share your immunization information with other registry users, request a 'Decline or Start Sharing/Information Request Form' from your doctor's office or download it from the CAIR website (http://cairweb.org/cair-forms/).

For more information about your rights, call (800-578-7889, toll free) or email (CAIRHelpDesk@cdph.ca.gov) the CAIR Help Desk.

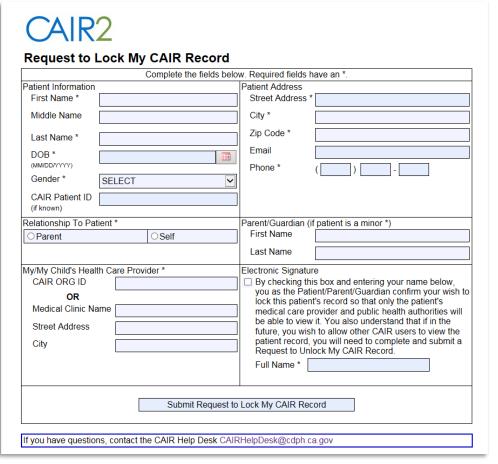
California Department of Public Health: Med Office IZ Registry Disclosure Letter rev 01/12 IMM-891
EIS



^{*} By law, public health officials can also look at the registry in the case of a public health emergency.

CAIR Right to "Lock" Record

 Patient has right to decline to share with other CAIR users, but not the right to prevent record from being submitted (public health justification)



http://cairweb.org/cair-forms



CAIR – Standard IIS Features

- Consolidates immunizations from different sources into a single patient record
- Assists providers in determining immunizations due
- Manages vaccine inventory
- Assists providers to do reminder/recall
- Produces a variety of patient-specific and aggregate reports



CAIR2 – Participation

- Online Enrollment
 - Organizations/Sites DX vs UI
 - Individual Users
- Training
 - Webinar
 - Mandatory for clinical user roles
 - Videos, User Guides
 - http://cairweb.org/cair2-training-resources/



CAIR2 – Patients and Doses*

Measure	0-5 yrs	6-18 yrs	19+ yrs	All Ages
Patients In	3,750,843	7,253,369	33,792,568	44,796,780
Patients w/ >2 doses	2,114,231	6,619,438	28,160,562	36,894,231
Vaccine Doses	37,092,261	138,416,150	225,804,972	401,313,383

^{*} As of January 25, 2022. CAIR2 only.

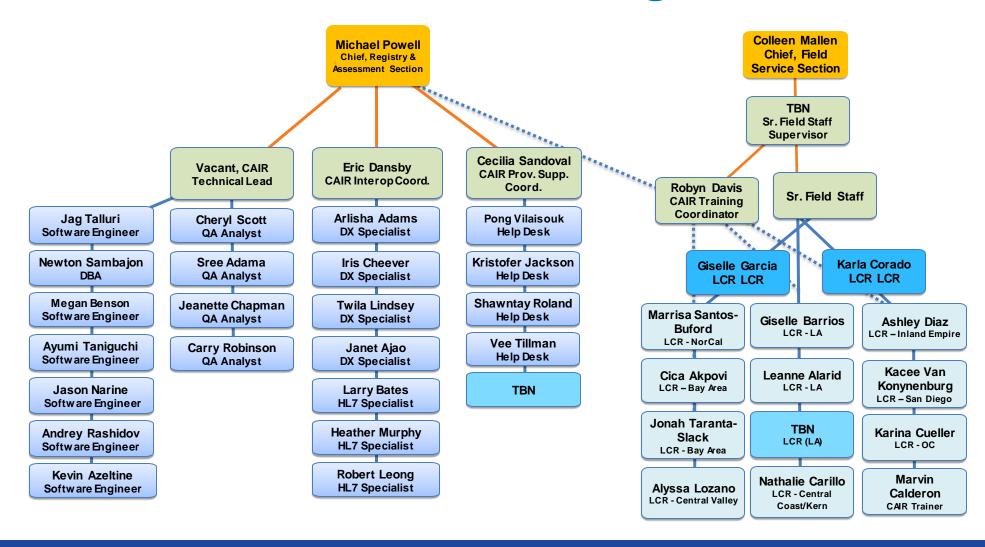


CAIR2 BiDX Sites – June 2019

Type	Total DX Sites	# of BiDX Sites	% BiDX Sites
VFC Sites	1,622	688	42%
All DX Sites	7,257	2,185	30%



CAIR2 Team – Org Chart





CAIR2 VFC Participation

CAIR2 Submission Status	#	%
Yes*	2,027	73%
No	471	17%
No CAIR2 ID	271	10%
Total VFC Sites	2,769	100%

^{*1} or more doses submitted in December 2021



^{^1} or more VFC orders in past 12 months

CAIR2 - User Roles

CAIR2 User Roles	Search Records	Run Reports	Add/Edit Doses	Add/Edit New Patients	Add/Edit Inventory	Monitor DX activity
Read-Only	>	>				
Regular	\	\	>	>		>
Power	>	>	>	>	~	~
DX QA*	\	\				>
School Read-Only	>	(roster)				
School Regular	>	(roster)	>	>		>
School Power	>	(roster)	>	>	>	>
IZ Coord.	>	(county)				~

Mandatory training required



^{*} Allows clinic staff to review data exchange (DX) messaging - no formal training required - see CAIR2 Quick Guides and Videos page at http://cairweb.org for training materials.

CAIR2 Data Sharing – SJ and SD

Anticipated by 1/1/2020

IIS	Histori cal	Ongoing Data Sharing		
	load	IIS → CAIR2	CAIR2 → IIS	
San Diego	Yes	Electronic (HL7)	Nightly updates	
San Joaquin (8 counties)	Yes	Electronic (HL7)	BiDX queries	



CAIR2 - Data Sources

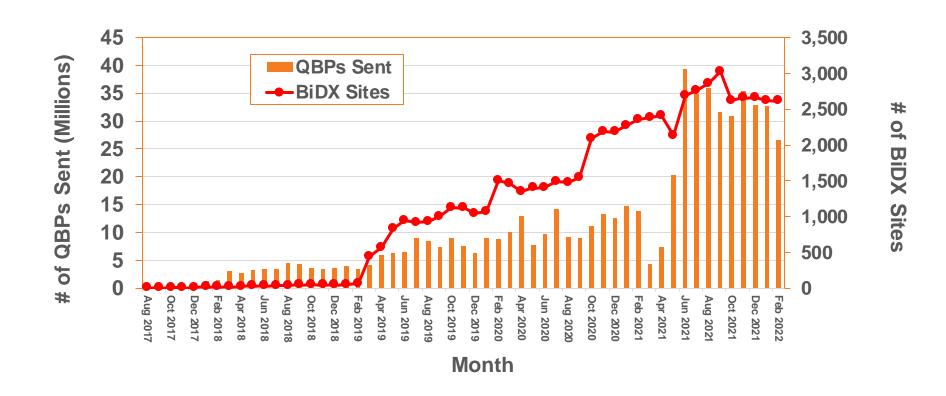
 86% of data submission to CAIR2 is from provider EHR systems

Source	Sites		
Source	#	%	
Provider EHRs	7,257	86%	
Manual entry	1140	14%	
TOTAL	8,397	100%	

^{*} Dec 2021



CAIR2 BiDX Activity Submitting





CAIR2 Data Issues

- Duplicate patients (>400K, 1%)
 - Process merge requests manually (RPA solutions recently implemented)
 - Improved matching algorithm
- Many patient reports not accurate because all patients ever vaccinated are considered 'Active'
 - 'Manage patient status' mass inactivation upgrade will fix
- Data Quality efforts
 - Sites sending 'locked' records
 - VFC sites not sending Vaccine Eligibility info
 - Incorrect vaccine codes, e.g. PPSV23 instead of PCV13 for 0-4 yrs



CAIR2 - BiDX Onboarding Process

- Complete the <u>BiDX Interest/ Readiness Survey</u>
- Self-directed testing process
 - CAIR2 QBP/RSP Implementation Guide (posted)
 - CAIR2 BiDX Test Plan (by invitation)
 - CAIR2 Post-Testing Survey (when testing is completed)
- Pre-launch Interview
- Begin BiDX messaging



CAIR2 – DX Message Flow







"Bidirectional"



Improving Addresses

- SmartyStreets Implementation
 - Address validation
 - Not verification
 - Geocoding
- Improved County/ZIP Crosswalks
- Improved Race/Ethnicity field population



CAIR2 Coming Upgrades

- CAIR Resource Center
 - Centralized management of customer support activities including customer service, site user enrollment, account update, user training, data exchange 'onboarding', etc.
- DQ Monitoring Tools, including Provider Report Card
- CDC AFIX/IQIP Module
 - QI tool that uses CAIR2 data to run clinic coverage assessments (VFC requirement)



CAIR2 Coming Upgrades

- Improved VFC CAIR2 Data Integration
 - Single Sign On to both CAIR2 and VFC Ordering
 - Automated export of 'Doses Administered' and 'Doses in Inventory' data from CAIR2 to VFC ordering form
 - Automated VFC inventory entry into CAIR2



Proposed My VFC Vaccines - CAIR 2 Data Linkage Sign On Single Sign On Single Sign On Training Vaccine Orders Vaccine Inventory Vaccine Transfers Patient Doses Autopopulate VFC inventory Vaccine transfers, etc. CAIR2 **MyVFCVaccines Doses Administered** Doses in Inventory



Digital COVID Vaccine Record

- https://myvaccinerecord.cdph.ca.gov
- Go live June 2021
- Over 14 million DCVR's delivered to date
- Built on SMART Health Card framework
- Can download to Apple Health, Google Pay, Clear App



CAIR2 Usage Report

Info Type	Time Period	Data Fields (In order)	Description
		County	Site's County
		VFC PIN	Provider Site's VFC PIN (tentative)
		Last VFC Order Date	Last date that VFC vaccine was ordered
		CAIR2 ID	Provider Site's CAIR ID/Org Code
Demographic		CAIR Org Type	
		Site Name	Site Name
		Address	Site Address
		City	Site's City
		Zip	Site's Zip
		BiDX Status?	Yes or No (production)
		Last DX Submitted Date (New Dose)	Last date that a new data exchange (DX) dose was submitted by the provider EHR
Site Data Exchange (DX)	Apr 2019	New DX Doses	Number of new DX doses submitted
Submission Activity	May 2019	New DX Doses	Number of new DX doses submitted
	Jun 2019	New DX Doses	Number of new DX doses submitted
	Jul 2019	New DX Doses	Number of new DX doses submitted
		Last UI Submitted Date (new Dose)	Last date that a doses was manually entered by the provider
024 - 11 I-tf (111)	Apr 2019	New UI Doses	Number of new UI doses submitted in month
Site User Interface (UI)	May 2019	New UI Doses	Number of new UI doses submitted in month
Submission Activity	Jun 2019	New UI Doses	Number of new UI doses submitted in month
	Jul 2019	New UI Doses	Number of new UI doses submitted in month
		Power users	Number of Site Power users
	Jul 2019	Power user logins	Number of Site Power user logins
		Last Power user login	Last Power user login date
Users and User Logins		Regular users	Number of Site Regular users
		Regular user logins	Number of Site Regular user logins
		Last Regular user login	Last Regular user login date
		Read-Only users	Number of Site Read-Only users
		Read-Only user logins	number of Site Read-Only user logins
		Last RO user login	Last RO user login date
		DX QA users	Number of Data Exchange Quality Assurance users
		DX QA user logins	Number of Site Data Exchange Quality Assurance user logins
		Last DX QA user login	Last DX QA user login date

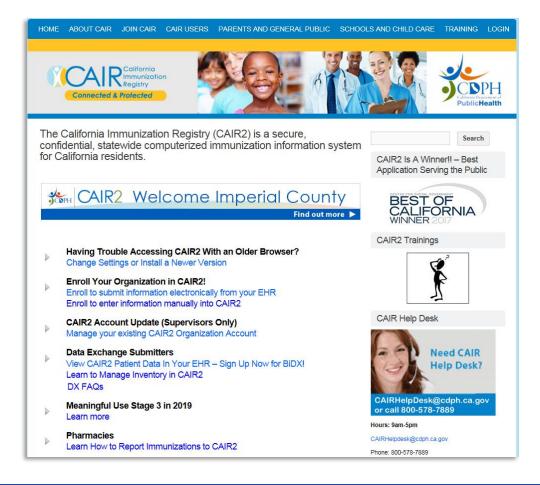


Questions?



Helpful CAIR2 Resources

- cairweb.org:
 - CAIR2 Training Videos
 - CAIR2 Quick Guides
 - Registration Links
 - FAQS







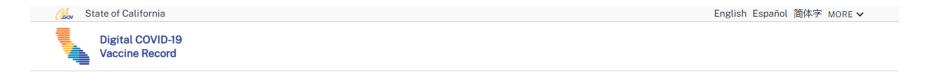
Questions?



Final Thoughts



Digital COVID 19 Vaccination Record



Digital COVID-19 Vaccine Record

Welcome to the Digital COVID-19 Vaccine Record portal. Just enter a few details below to get a link to a QR code and digital copy of your COVID-19 vaccination record. If you want to share your proof of vaccination, you can use either the electronic version you'll get from the portal or the card you were given at time of vaccination.

If you are a parent or guardian and have multiple vaccine records associated with a single cell phone number or email address, enter each digital vaccine record request separately.

The portal provides only a digital copy of your vaccine record. If you received your vaccinations from a federal agency (e.g., Department of Defense, Indian Health Services, or Veterans Affairs), you will need to reach out to those agencies for assistance with your vaccination record.

If you have questions about your Digital COVID-19 Vaccine Record, visit our FAQ.

Please fill out the required fields to receive a link to a QR code and digital copy of your COVID-19 vaccination record:

Required fields marked with *

First name *

Last name *

Date of birth *



Digital COVID 19 Vaccination Record

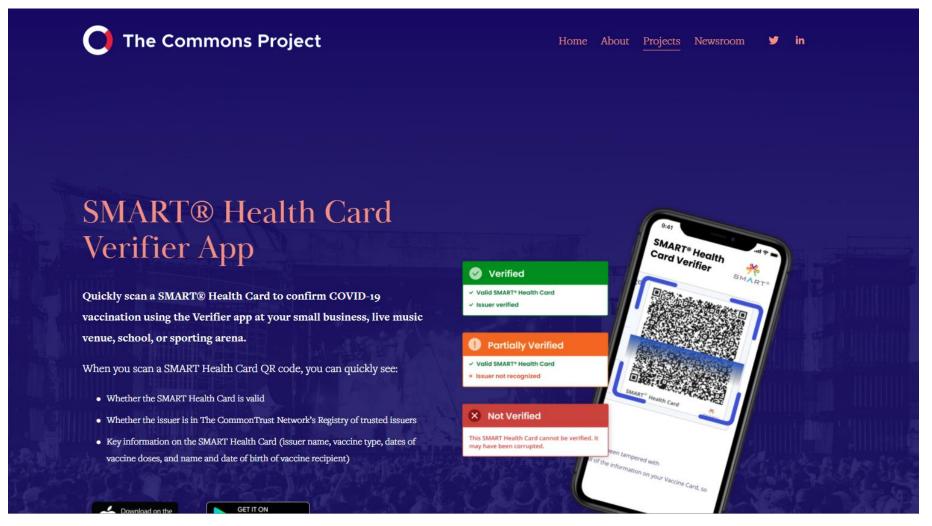
myvaccinerecord.cdph.ca.gov

- Enter your first name, your last name, and your date of birth
- Provide a cell phone number or email.
- Create a 4-digit PIN to access your vaccine record.
- Verify your identity by checking the box and click the "submit" button.
- Receive a text or email with a link to your vaccine record.
- Click on the link and enter that PIN you just created.
- This will give you your vaccine record with a QR code.



Digital COVID 19 Vaccination Record

https://thecommonsproject.org/smart-health-card-verifier





Evaluation

At the end of this webinar an Evaluation will pop up on your screen.

The evaluation should take approximately 5 minutes to complete. We are grateful for your time.

CIC utilizes the evaluation from our Education Hours to guide us in future endeavors as well as sharing the performance of the education hour with our stake holders.

Frequently Asked Questions

2. Will I receive a copy of the webinar recording?



Yes – a copy will be posted on the ImmunizeCA.org site

2. Will I receive a copy of the webinar recording?



Yes - a copy will be posted on the ImmunizeCA.org site



Thank you for your support and your participation!

www.immunizeCA.org