

Submitting Quality Data to the California Immunization Registry (CAIR2)

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The California Immunization Registry (CAIR2) is a secure web-based platform that allows providers and organizations to track patient immunization and tuberculosis records. The CAIR2 aims to improve vaccination rates, minimize missed immunization opportunities, and prevent administration of duplicate immunizations. Patient-specific and aggregate reports in the CAIR2 system allow for accurate assessment of vaccination coverage rates in California. Additionally, the CAIR2 provides schools and childcare facilities with accurate and complete records that are required for entry.

Throughout the COVID-19 pandemic, the CAIR2 has been an important tool in monitoring vaccination outreach efforts and identifying communities needing additional engagement. In June 2021, the California Department of Public Health (CDPH) launched the [Digital COVID-19 Vaccine Record](#) (DCVR) portal using data from CAIR2. The portal has a match rate of over 90 percent and has successfully provided more than 14 million California residents with digital access to their COVID-19 vaccination records.

CAIR2 works best when data are accurate, complete, and timely. Since over 85% of all data submitted to CAIR2 originates from electronic health record (EHR) systems, it is important that patient demographic and immunization information are entered accurately and completely in the EHR. The more patient information that CAIR2 has, the higher the probability that any incoming data will be merged with the correct patient. Timely submission of data also helps ensure that CAIR2 records will be updated in time for the next provider visit.

To ensure that CAIR2 contains only high-quality data, CDPH recommends the following:

- Train all staff to enter complete demographic and immunization information accurately into the EHR. Contact the EHR vendor as soon as possible to resolve any data accuracy or integrity issues.

- Configure the EHR interface properly for easy and accurate use. Drop-down menus are useful but can result in improper selection of vaccine.
- Implement an ongoing data monitoring process to monitor data exchange submissions via the EHR or using the 'Check Status' screen in CAIR2. Assign primary responsibility for monitoring to a staff member and communicate with EHR vendor if message flow is interrupted or excess errors occur.
- Periodically compare selected patient records in the EHR with the same patient records in CAIR2 to make sure the information matches.

For additional support, health care providers can consult the [CAIR2 User Guides and Training Videos](#) located on the [CAIR Website](#), or contact the help desk at CAIRHelpDesk@cdph.ca.gov.