

# California Immunization Registry - All Vaccinations Data Dictionary – Dose Level View



Last Updated 9/21/2023

## Snowflake Dataset

Dataset Name: TBL\_VAX\_DOSES\_ALL\_LHJ

Dataset Description: This is a dose level view that contains all vaccine doses reported to the California Immunization Registry (CAIR2), including records received from the Healthy Futures Registry (also known as the Regional Immunization Data Exchange or RIDE) via data exchange. The San Diego Immunization Registry was integrated into CAIR2 in April 2022.

## FIELD DEFINITIONS

Field No.	Data Element	Variable Name	Data Element Description	Value Set
1	<b>Bridged Recipient ID</b>	BRIDGE_RECIP_ID	<p>Recipient ID used for this individual in the recipient level view.</p> <p>When an individual is identified as having more than one recipient ID in the dataset using the below bridging logic, all doses for that individual are mapped under one of the recipient IDs in the recipient level view. The recipient ID that is selected will be denoted as BRIDGE_RECIP_ID. In the recipient level view, RECIP_ID field reflects BRIDGE_RECIP_ID.</p> <p>Bridging logic:</p> <ul style="list-style-type: none"><li>• Same first name AND</li><li>• Same last name AND</li><li>• Same DOB AND</li></ul>	n/a

Field No.	Data Element	Variable Name	Data Element Description	Value Set
			One of the following: - (Address street similar (50% max difference) OR both address street is blank) AND same ZIP code - Same admin date and same lot number - Same phone number - Same email address	
2	Recipient ID	RECIP_ID	Unique ID for this recipient.	n/a
3	Vaccination event ID	VAX_EVENT_ID	The vaccination event's unique identifier within the system.	n/a
4	Administration date	ADMIN_DATE	The date the vaccination event occurred.	n/a
5	CVX	CVX	The vaccine type that was administered.	<a href="#">CVX Codes – Vaccines Administered</a>
6	Administered at location	ADMIN_NAME	The name of the physical clinic or facility that reported the vaccination. In a small practice setting, this could be the same as the responsible organization.	n/a
7	Lot number	LOT_NUMBER	The lot number of the vaccine administered.	n/a
8	Number in Series	NUMBER_IN_SERIES	The total number of doses required to complete a vaccination series.	n/a
9	Ordinal Position	ORDINAL_POSITION	The dose number in a vaccination series.	n/a
10	Organization code	ORG_CODE	The CAIR2 Organization Code assigned to administering organization.	

Field No.	Data Element	Variable Name	Data Element Description	Value Set
11	Recipient name: first	RECIP_FIRST_NAME	Recipient's first name.	n/a
12	Recipient name: middle	RECIP_MIDDLE_NAME	Recipient's middle name.	n/a
13	Recipient name: last	RECIP_LAST_NAME	Recipient's last name.	n/a
14	Recipient date of birth	RECIP_DOB	Recipient's date of birth.	n/a
15	Recipient address: street	RECIP_ADDRESS_STREET	The street component of the recipient's address.	n/a
16	Recipient address: street 2	RECIP_ADDRESS_STREET_2	The street 2 component of the recipient's address.	n/a
17	Recipient address: city	RECIP_ADDRESS_CITY	The city component of the recipient's address.	n/a
18	Recipient address: state	RECIP_ADDRESS_STATE	The state component of the recipient's address.	US Postal Service two-character State Codes
19	Recipient address: zip code	RECIP_ADDRESS_ZIP	The zip code of the recipient's address (5 digit or 10 digits, with hyphen, are acceptable).	n/a
20	Recipient race 1	RECIP_RACE_1	Recipient's race.	HL7 User Defined table 0005 1002-5 (American Indian or Alaska Native) 2028-9 (Asian) 2076-8 (Native Hawaiian or Other Pacific Islander) 2054-5 (Black or African American) 2106-3 (White)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
				2131-1 (Other Race) UNK (Unknown)
21	Recipient race 2	RECIP_RACE_2	Recipient's race. Fields recipient race 2-6 support recipients with more than 1 race. (Skip if only one race reported).	See Value Set in "Recipient Race 1" field
22	Recipient race 3	RECIP_RACE_3	Recipient's race. Fields recipient race 2-6 support recipients with more than 1 race. (Skip if only one race reported).	See Value Set in "Recipient Race 1" field
23	Recipient race 4	RECIP_RACE_4	Recipient's race. Fields recipient race 2-6 support recipients with more than 1 race. (Skip if only one race reported).	See Value Set in "Recipient Race 1" field
24	Recipient race 5	RECIP_RACE_5	Recipient's race. Fields recipient race 2-6 support recipients with more than 1 race. (Skip if only one race reported).	See Value Set in "Recipient Race 1" field
25	Recipient race 6	RECIP_RACE_6	Recipient's race. Fields recipient race 2-6 support recipients with more than 1 race. (Skip if only one race reported).	See Value Set in "Recipient Race 1" field
26	Recipient ethnicity	RECIP_ETHNICITY	The ancestry of the recipient.	HL7 User Defined table 0189 2135-2 (Hispanic or Latino) 2186-5 (Not Hispanic or Latino) PHC1175 (Prefer not to say) UNK (Unknown ethnicity)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
27	Recipient sex	RECIP_SEX	Recipient's sex.	HL7 User Defined table 0001 M (Male) F (Female) U (Unknown/undifferentiated)
28	Responsible organization	RESPONSIBLE_ORG	The name of the parent organization or health system that originated and is accountable for the content of the record. If an organization has several clinics or facilities, this would be the organization that represents all of the clinics/facilities (the "Administered at location" field is the name of individual physical location).	n/a
29	Vaccine group	VACCINE_GROUP	The code of the vaccine group. If the patient received a combination vaccine (e.g., Pediarix), the vaccination will appear within each vaccine group for the components included in the combination vaccine (e.g., for Pediarix, the vaccination will appear within the DTaP, Hep B, and Polio vaccine groups).	1 (Adeno) 2 (Anthrax) 3 (BCG) 4 (Cholera) 6 (Tetanus, Diphtheria, Acellular Pertussis) 7 (Diphtheria, Tetanus, Acellular Pertussis) 8 (Encephalitis) 9 (Influenza Seasonal) 11 (Hepatitis A) 12 (Hepatitis B) 13 (Hib) 14 (Ig) 15 (Lyme) 16 (Meningitis) 17 (Measles, Mumps, Rubella) 18 (Plague) 19 (Pneumonia Conjugate) 20 (Poliomyelitis) 21 (Rabies) 23 (Rotavirus) 24 (Typhoid) 25 (Vaccinia) 26 (Varicella) 27 (Yellow Fever) 31 (Tetanus)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
				33 (Diphtheria Antitoxin) 34 (Pneumonia Polysaccharide) 48 (Ig-RSV) 128 (Pertussis) 129 (Zoster) 130 (Human Papilloma Virus) 131 (Novel Influenza-09) 132 (Ig-HB1g) 135 (MenB) 136 (Influenza - H5N1) 138 (Coronavirus) 139 (Dengue)
30	Vaccine Group Display Name	VACCINE_GROUP_DISPLAY_NAME	Short version of VACCINE_GROUP_NAME.	1 (Adeno) 2 (Anthrax) 3 (BCG) 4 (Cholera) 6 (Td/Tdap) 7 (DTP/aP) 8 (Encephalitis) 9 (Influenza-seasnI) 11 (HepA) 12 (HepB) 13 (Hib) 14 (Ig) 15 (Lyme) 16 (Men ACWY) 17 (MMR) 18 (Plague) 19 (PneumoConjugate) 20 (Polio) 21 (Rabies) 23 (Rotavirus) 24 (Typhoid) 25 (Vaccinia) 26 (Varicella) 27 (Yellow Fever)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
				31 (Tetanus) 33 (Diphtheria) 34 (PneumoPoly 23) 48 (Ig-RSV) 128 (Pertussis) 129 (Zoster) 130 (HPV) 131 (Influenza-H1N1) 132 (Ig-HBIG) 135 (MenB) 136 (Influenza - H5N1) 138 (COVID-19) 139 (Dengue)
31	Vaccine Group Name	VACCINE_GROUP_NAME	The name of the vaccine group.	See Value Set in "Vaccine Group" field
32	Vaccine Name	VACCINE_NAME	The name of the individual vaccine within a vaccine group.	<a href="#">CVX Codes – Vaccines Administered</a>
33	Recipient age - days	AGE_IN_DAYS	Recipient's age in days.	n/a
34	Recipient age - months	AGE_IN_MONTHS	Recipient's age in months.	n/a
35	Recipient address: county	RECIP_ADDRESS_COUNTY	The county code component of the recipient's address.	<a href="#">FIPS Codes</a>

Field No.	Data Element	Variable Name	Data Element Description	Value Set
36	<b>Recipient County Name</b>	RECIP_COUNTY_LABEL	The county name component of the recipient's address.	Derived from FIPs based on County Code. When RECIP_ADDRESS_COUNTY is null, derived from RECIP_ADDRESS_ZIP. See RECIP_ADDRESS_COUNTY_NEW.
37	<b>NDC</b>	NDC	The vaccine product that was administered: Unit of Use (UoU) is preferred if both UoU and Unit of Sale (UoS) are available.	<a href="#">NDC Crosswalk Tables</a>
38	<b>MVX</b>	MVX	The manufacturer of the vaccine administered.	<a href="#">MVX – Manufacturers of Vaccines</a>
39	<b>Vaccine expiration date</b>	VAX_EXPIRATION	The expiration date of the vaccine administered.	n/a
40	<b>Vaccine administering site</b>	VAX_ADMIN_SITE	The body site of vaccine administration.	HL7 defined table 0163 LT (Left thigh) LA (left arm) LD (left deltoid) LG (left gluteus medius) LVL (left vastus lateralis) LLFA (left lower forearm) RT (right thigh) RA (right arm) RD (right deltoid) RG (right gluteus medius) RVL (right vastus lateralis) RLFA (right lower forearm)
41	<b>Vaccine route of administration</b>	VAX_ROUTE	The route of vaccine administration (e.g., oral, subcutaneous).	HL7 defined table 0162 or FDA NCI Thesaurus (NCIT) NCIT values preferred and provided for reference C38238 (Intradermal) C28161 (Intramuscular) C38284 (Nasal)



Field No.	Data Element	Variable Name	Data Element Description	Value Set
				C38276 (Intravenous) C38288 (Oral) C38676 (Percutaneous) C38299 (Subcutaneous) C38305 (Transdermal)
42	Dose number	DOSE_NUM	Dose number in vaccination series, provided dose is considered valid (e.g., counts towards immunity). Based on ORDINAL_POSITION.	1 (Valid first dose) 2 (Valid second dose) 3 (Valid third dose) 4 (Valid fourth dose) 5 (Valid fifth dose) INV (Invalid dose) UNK (Unknown validity)
43	Vaccination series complete	VAX_SERIES_COMPLETE	Report if the vaccination series is complete. Select "YES" when the recipient has completed the required doses for the specific vaccine product. If more doses are required select "NO." If unknown, or cannot be calculated, select "UNK."	YES (Yes) NO (No) UNK (Unknown)
44	Vaccine eligibility	VACCINE_ELIGIBILITY	The recipient's documented eligibility for the vaccine (e.g., VFC- MediCal/CHDP, VFC-Uninsured, etc.; 317; State General Fund; Private). Known data quality issues, not a required field.	V01 (Private) V02 (VFC Eligible Medi-Cal/CHDP) V03 (VFC Eligible - Uninsured) V04 (VFC Eligible - Native American/AK Native) V05 (VFC Eligible – Underinsured, FQHC/RHC Only) V07 (317 Eligible – LHD or HDAS Only) CAA01 (State General Funding)
45	VTrckS provider PIN	VTRCKS_PROV_PIN	The 6-digit Provider PIN in VTrckS. For VFC Providers, this is the VFC PIN.	n/a
46	Administered at location: type	ADMIN_TYPE	The characteristic of the provider site that reported the vaccination, refusal, or missed appointment.	1 (Commercial vaccination service provider) 2 (Corrections/detention health services) 3 (Health center – community) 4 (Health center – migrant or refugee) 5 (Health center – occupational) 6 (Health center – STD/HIV clinic) 7 (Health center – student) 8 (Home health care provider) 9 (Hospital)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
				10 (Indian Health Service) 11 (Tribal health) 12 (Medical practice – family medicine) 13 (Medical practice – pediatrics) 14 (Medical practice – internal medicine) 15 (Medical practice – OB/GYN) 16 (Medical practice – other specialty) 17 (Pharmacy – chain) 18 (Pharmacy – independent) 19 (Public health provider – public health clinic) 20 (Public health provider – Federally Qualified Health Center) 21 (Public health provider – Rural Health Clinic) 22 (Long-term care – nursing home, skilled nursing facility, federally certified) 23 (Long-term care – nursing home, skilled nursing facility, non-federally certified) 24 (Long-term care – assisted living) 25 (Long-term care – intellectual or developmental disability) 26 (Long-term care – combination) 27 (Urgent care) 28 (Other) UNK (Unknown)
47	Administration address: street	ADMIN_ADDRESS_STREET	The street component of where the vaccine is administered/ planned to be administered. Exception for mobile clinics.	n/a
48	Administration address: street 2	ADMIN_ADDRESS_STREET_2	The street 2 component of where the vaccine is administered/planned to be administered. Exception for mobile clinics.	n/a
49	Administration address: city	ADMIN_ADDRESS_CITY	The city component of where the vaccine is administered/planned to be administered. Exception for mobile clinics.	n/a

Field No.	Data Element	Variable Name	Data Element Description	Value Set
50	Administration address: county	ADMIN_ADDRESS_COUNTY	The county component of the administration address.	<a href="#">FIPS Codes</a>
51	Administration address: county name	ADMIN_COUNTY_LABEL	The county component of where the vaccine is being administered/planned to be administered. Exception for mobile clinics.	Join with FIPs table based on County Code to get the county name
52	Administration address: state	ADMIN_ADDRESS_STATE	The state component of where the vaccine is administered/ planned to be administered. Exception for mobile clinics.	US Postal Service two-character state codes
53	Administration address: zip code	ADMIN_ADDRESS_ZIP	The zip code component of where the vaccine is administered/planned to be administered. Exception for mobile clinics.	n/a
54	Date vaccine entered into registry	IIS_ADDED_DATE	The date vaccine reported to local registry.	n/a
55	Mother's first name	MOTHERS_FIRST_NAME	Mother's first name.	n/a
56	Mother's last name	MOTHERS_MAIDEN_LAST	Mother's maiden last name.	n/a
57	Vaccinator name: first	VACCINATOR_FIRST_NAME	Vaccinator's first name.	n/a
58	Vaccinator name: last	VACCINATOR_LAST_NAME	Vaccinator's last name.	n/a

Field No.	Data Element	Variable Name	Data Element Description	Value Set
59	<b>ID</b>	IMMUN_FACT_ID	Unique identifier for the immunization record.	n/a
60	<b>Email</b>	EMAIL_ADDRESS	Recipient's email.	n/a
61	<b>Phone number</b>	PHONE_NUMBER	Recipient's phone number.	n/a
62	<b>Historical dose</b>	HISTORICAL_IND	Vaccination entered as an administered or historical dose.	00 (Administered) 01 (Historical)
63	<b>Patient sharing indicator</b>	LOCKED_IND	Patient sharing status.  If 1, patient has requested that their record not be shared with organizations other than their own provider or public health.	0 (FALSE) 1 (TRUE)
64	<b>Snowflake entered date</b>	WAREHOUSE_ENTER_DATE	Date/time record created in Snowflake.	n/a
65	<b>CAIR2 updated Date</b>	CAIR_UPDATE_TS	Date/time record updated in CAIR2.	n/a
66	<b>Snowflake updated date</b>	WAREHOUSE_UPDATE_DATE	Date/time record updated in Snowflake.	n/a

Field No.	Data Element	Variable Name	Data Element Description	Value Set
67	Recipient address: concatenated	MIXED_ADDRESS	Concatenation of the recipient address street, city, state, and zip code.	n/a
68	Administration address: concatenated	MIXED_ADMIN_ADDRESS	Concatenation of the vaccinating provider's address street, city, state, and zip code.	n/a
69	Recipient Address: county (New)	RECIP_ADDRESS_COUNTY_NEW	If recipient county is blank, this field gets populated by the FIPS code based on the recipient zip code, if available.	<a href="#">FIPS Codes</a>
70	Recipient address: county based on HPI_3_MIXED	HPI_COUNTY_RCP_MIXED	The county name of the recipient's address, derived from HPI_3_MIXED.	Derived from FIPs based on County Code.
71	Local health jurisdiction	LHJ	Local health jurisdiction of recipient's residence; if zip code (MIXED_ZIP) is in Berkeley, Long Beach, or Pasadena cities, LHJ = Berkeley, Long Beach and Pasadena, respectively, otherwise LHJ = MIXED_COUNTY.  MIXED_ZIP: If recipient zip code is null, field is populated by admin zip code.  MIXED_COUNTY: If RECIP_ADDRESS_COUNTY_NEW is null or unknown, field is populated with ADMIN_COUNTY_LABEL.	when MIXED_ZIP in ('94701', '94702', '94703', '94704', '94705', '94707', '94708', '94709', '94710', '94712', '94720') then 'Berkeley'  when MIXED_ZIP in ('90801', '90802', '90803', '90804', '90805', '90806', '90807', '90808', '90809', '90810', '90813', '90814', '90815', '90822', '90831', '90832', '90833', '90834', '90835', '90840', '90842', '90844', '90845', '90846', '90847', '90848', '90853', '90888', '90899') then 'Long Beach'  when left(MIXED_ZIP,5) in ('91101', '91102', '91103', '91104', '91105', '91106', '91107', '91109', '91110', '91114', '91115', '91116', '91117', '91121', '91123', '91124', '91125', '91126', '91129', '91131', '91182', '91184', '91185', '91188', '91189', '91191', '91199') then 'Pasadena'  ELSE MIXED_COUNTY

Field No.	Data Element	Variable Name	Data Element Description	Value Set
72	Recipient age - years	RECIP_AGE	Recipient's age in years.	n/a
73	Recipient race/ethnicity	RECIP_RACE_ETH	Recipient's race/ethnicity.	When ethnicity is marked 'Hispanic or Latino' then 'Latino', when more than one specified race (1002-5, 2028-9, 2076-8, 2054-5, 2106-3) is noted then 'Multiracial', otherwise first race noted.
74	Census tract – recipient address (2020)	CENSUS_TRACT	2020 census tract based on recipient address only.	
75	Census tract – recipient address (2010)	CENSUS_TRACT_10	2010 census tract based on recipient address only.	
76	Census tract - administration address	CENSUS_TRACT_ADMIN_10	2010 census tract based on vaccinating provider's address only.	
77	HPI 3.0 – census tract	HPI_3_TRACT	Healthy Places Index 3.0 score quartile based on the 2010 census tract from the recipient's address.	
78	HPI 3.0 - zip	HPI_3_ZIP	Healthy Places Index 3.0 score quartile based on the recipient's address zip (if null, uses the ZCTA zip from the <a href="#">zip-to-ZCTA crosswalk</a> ); if recipient's address zip is still null, uses the vaccinating provider's address zip (if provider's address zip is null, uses the ZCTA from the <a href="#">zip-to-ZCTA crosswalk</a> ).	<a href="#">Healthy Places Index</a> Locally Defined Value Set: 1 (HPI Quartile 1) 2 (HPI Quartile 2) 3 (HPI Quartile 3) 4 (HPI Quartile 4) Null (no HPI score assigned)
79	HPI 3.0 - mixed	HPI_3_MIXED	HPI_3_TRACT; if null, uses HPI_3_ZIP.	<a href="#">Healthy Places Index</a> Locally Defined Value Set: 1 (HPI Quartile 1) 2 (HPI Quartile 2) 3 (HPI Quartile 3) 4 (HPI Quartile 4) Null (no HPI score assigned)

Field No.	Data Element	Variable Name	Data Element Description	Value Set
80	Administered at location: description	ADMIN_TYPE_DESC	Description of ADMIN_TYPE. The characteristic of the provider site that reported the vaccination, refusal, or missed appointment.	1 (Commercial vaccination service provider) 2 (Corrections/detention health services) 3 (Health center – community) 4 (Health center – migrant or refugee) 5 (Health center – occupational) 6 (Health center – STD/HIV clinic) 7 (Health center – student) 8 (Home health care provider) 9 (Hospital) 10 (Indian Health Service) 11 (Tribal health) 12 (Medical practice – family medicine) 13 (Medical practice – pediatrics) 14 (Medical practice – internal medicine) 15 (Medical practice – OB/GYN) 16 (Medical practice – other specialty) 17 (Pharmacy – chain) 18 (Pharmacy – independent) 19 (Public health provider – public health clinic) 20 (Public health provider – Federally Qualified Health Center) 21 (Public health provider – Rural Health Clinic) 22 (Long-term care – nursing home, skilled nursing facility, federally certified) 23 (Long-term care – nursing home, skilled nursing facility, non-federally certified) 24 (Long-term care – assisted living) 25 (Long-term care – intellectual or developmental disability) 26 (Long-term care – combination) 27 (Urgent care) 28 (Other) UNK (Unknown)
81	Snapshot time	SNAPSHOT_TIME	Data current as of this timestamp.	n/a