

COVID-19 Vaccinations

Data Dictionary - Recipient View



Last Updated 11/02/2022

LHJ Data Source in IRIS

View Name: VW_ALL_IIS_RECIPIENTS_LHJ

View Description: This is a recipient level view that contains one row per vaccine recipient and is used by the California Department of Public Health (CDPH) vaccine data team for calculations that involve measures of people (e.g., partially/fully vaccinated, race/ethnicity). The data include COVID-19 vaccine doses reported to the California Immunization Registry (CAIR2) and the Healthy Futures Registry (the San Diego Immunization Registry was integrated into CAIR2 in April 2022). Doses administered by the following federal agencies and reported directly to the CDC are not included: Veterans Health Administration, Department of Defense, the Federal Bureau of Prisons, and some Indian Health Service clinics.

FIELD DEFINITIONS

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
1	Recipient ID	recip_id	Unique ID for this recipient. This can be the ID used by your system or a randomly assigned unique identifier. However, the ID must be consistent across reports to allow linking doses to the same recipient ID.	n/a
2	Administration date – Dose 1	ds1_admin_date	The first recorded dose administration date for the recipient. Ignores DOSE_NUM field in VW_ALL_IIS_LHJ for determination.	n/a

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
3	Administration date – Dose 2	ds2_admin_date	The second recorded dose administration date for the recipient. Ignores DOSE_NUM field in VW_ALL_IIS_LHJ for determination.	n/a
4	Vaccine types received	vax_received	The manufacturer name (s) of all vaccines received, for up to 4 doses.	Locally Defined Value Set: Moderna Pfizer J&J
5	Vaccination status	fully_vaccinated	Recipient's vaccination status. The following criteria were removed on 2/22/2022: - Three or more vaccination records - Only dose in IRIS is labeled as dose number 2	Locally Defined Value Set: FALSE (Partially vaccinated) TRUE (Fully vaccinated) A vaccine recipient is considered fully vaccinated if they meet at least one of the following criteria: 1) They received one dose of J&J 2) They received two Pfizer doses >= 17 days apart 3) They received two Moderna doses >= 24 days apart 4) They received a combination of Pfizer/Moderna doses >= 17 days apart
6	Recipient name: first	recip_first_name	Recipient's first name. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
7	Recipient name: middle	recip_middle_name	Recipient's middle name. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
8	Recipient name: last	recip_last_name	Recipient's last name. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
9	Recipient date of birth	recip_dob	Recipient's date of birth. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
10	Recipient age	recip_age	Recipient's age in years. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
11	Recipient age group	recip_age_group	Recipient's age group, in years. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	Locally Defined Value Set: Under 5 5-11 12-17 18-49 50-64 65+ Unknown* Birthdates within 60 days of the vaccination date are categorized as 'Unknown'
12	Recipient sex	recip_sex	Recipient sex. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	HL7 User Defined Table 0001 M (Male) F (Female) U (Unknown/undifferentiated)
13	Recipient race/ethnicity	recip_race_eth	Recipient's race/ethnicity. UPDATED 9/7/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	When ethnicity is marked 'Hispanic or Latino' then 'Latino', when more than one specified race code (1002-5, 2028-9, 2076-8, 2054-5, 2106-3) is noted then 'Multiracial', otherwise first race is noted. Derived from original ethnicity and race codes: HL7 User Defined Table 0189 2135-2 (Hispanic or Latino) 2186-5 (Not Hispanic or Latino) UNK (Unknown ethnicity) POL (Unable to report to do policy/law) HL7 User Defined Table 0005 1002-5 (American Indian or Alaska Native) 2028-9 (Asian)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
				2076-8 (Native Hawaiian or Other Pacific Islander) 2054-5 (Black or African American) 2106-3 (White) 2131-1 (Other Race) UNK (Unknown) POL (Unable to report due to policy/law)
14	Recipient address: street	recip_address_street	The street component of the recipient's address. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
15	Recipient address: street 2	recip_address_street_2	The street 2 component of the recipient's address. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value. Previous name: recip_recip_address_street_2.	n/a
16	Recipient address: city	recip_address_city	The city component of the recipient's address. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
17	Recipient address: zip code	recip_address_zip	The zip code of the recipient's address (5 digit or 10 digits, with hyphen, are acceptable). UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	n/a
18	Recipient county name	recip_county_label	The county name component of the recipient's address. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	Derived from FIPs based on County_Code. When recip_address_county is null, derived from recip_address_zip. See Recip_Address_County_New.

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
			'Outside California' category includes out-of-state residents and records where recipient's state of residence is blank.	
19	Responsible organization	responsible_org	<p>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.)</p> <p>UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	n/a
20	Administered at location	admin_name	<p>The name of the physical clinic or facility that reported the vaccination, refusal, or missed appointment. In a small practice setting, this could be the same as the responsible organization.</p> <p>UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	n/a
21	Administration address: zip code	admin_address_zip	<p>The zip code component of where the vaccine is being administered/ planned to be administered. Exception for mobile clinics.</p> <p>UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	n/a
22	Administration address: county name	admin_county_label	<p>The county component of where the vaccine is being administered/ planned to be administered. Exception for mobile clinics.</p> <p>UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	Join with FIPS table based on County_Code to get the name/desc.

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
23	Mixed zip	mixed_zip	<p>If recipient zip code is null, this field is populated by admin zip code.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	
24	Mixed county	mixed_county	<p>If recip_address_county_new is NULL or unknown, populate this with admin_county_label.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p> <p>'Outside California' category includes out-of-state residents and records where recipient's state of residence is blank.</p>	
25	Local health jurisdiction	LHJ	<p>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.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p> <p>'Outside California' category includes out-of-state residents and records where recipient's state of residence is blank.</p>	<p>when mixed_zip in ('94701', '94702', '94703', '94704', '94705', '94707', '94708', '94709', '94710', '94712', '94720') then 'Berkeley'</p> <p>when mixed_zip in ('90801', '90802', '90803', '90804', '90805', '90806', '90807', '90808', '90809', '90810', '90813', '90814', '90815', '90822', '90831', '90832',</p> <p>when mixed_zip in ('90833', '90834', '90835', '90840', '90842', '90844', '90845', '90846', '90847', '90848', '90853', '90888', '90899') then 'Long Beach'</p> <p>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'</p> <p>ELSE mixed_county</p>

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
26	VEM quartile	hpiquartile	<p>Vaccine Equity Metric (VEM) score quartiles based on mixed_zip.</p> <p>Vaccine Equity Metric (VEM) score quartiles combine the Public Health Alliance of Southern California’s Healthy Places Index (HPI) measure with CDPH-derived scores to estimate factors that impact health, like income, education, and access to health care. Zip codes range from less healthy community conditions in Quartile 1 to more healthy community conditions in Quartile 4.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	<p>Locally Defined Value Set:</p> <p>1 (VEM Quartile 1)</p> <p>2 (VEM Quartile 2)</p> <p>3 (VEM Quartile 3)</p> <p>4 (VEM Quartile 4)</p> <p>Null (no VEM score assigned)</p>
27	VEM quartile based on recipient zip code	hpiquartile_rcp_zip	<p>Vaccine Equity Metric (VEM) score quartiles based on recipient zip code.</p> <p>Vaccine Equity Metric (VEM) score quartiles combine the Public Health Alliance of Southern California’s Healthy Places Index (HPI) measure with CDPH-derived scores to estimate factors that impact health, like income, education, and access to health care. Zip codes range from less healthy community conditions in Quartile 1 to more healthy community conditions in Quartile 4.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	<p>Locally Defined Value Set:</p> <p>1 (VEM Quartile 1)</p> <p>2 (VEM Quartile 2)</p> <p>3 (VEM Quartile 3)</p> <p>4 (VEM Quartile 4)</p> <p>Null (no VEM score assigned)</p>
28	Recipient address: county based on zip code	hpi_county_rcp_zip	<p>The county name of the recipient’s address, derived from the zip code of the recipient’s address.</p> <p>UPDATED 7/26/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	<p>County derived from recip_address_zip.</p>

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
29	Administered at location: type	admin_type_desc	<p>The characteristic of the provider site that reported the vaccination, refusal, or missed appointment.</p> <p>Derived from value recorded for second dose, unless null, then first dose value is used.</p>	<p>Labels from Locally Defined Value Set:</p> <ol style="list-style-type: none"> 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)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
30	MCE	MCE	<p>Provider affiliated with state agency multi-county entity, health system multi-county entity, or pharmacy entity participating in CDC Long Term Care or Retail Pharmacy Partnership programs.</p> <p>Derived from value recorded for second dose, unless null, then first dose value is used.</p>	<p>Locally Defined Value Set:</p> <p>CDCR (State Agency MCE - California Department of Corrections and Rehabilitation)</p> <p>DHS (State Agency MCE - Department of State Hospitals)</p> <p>AHMC Healthcare (Health System MCE)</p> <p>Dignity Health (Health System MCE)</p> <p>Kaiser Permanente (Health System MCE)</p> <p>Providence (Health System MCE)</p> <p>Sutter Health (Health System MCE)</p> <p>UC Health (Health System MCE)</p> <p>CVS (Pharmacy)</p> <p>Rite Aid (Pharmacy)</p> <p>Walgreens (Pharmacy)</p> <p>Albertson Companies, Inc. (Pharmacy)</p> <p>Costco (Pharmacy)</p> <p>Kroger (Pharmacy)</p> <p>Walmart (Pharmacy)</p> <p>Topco (Pharmacy)</p> <p>Good Neighbor (Pharmacy)</p> <p>Health Mart (Pharmacy)</p> <p>CPESN (Pharmacy)</p> <p>Cardinal (Pharmacy)</p> <p>GeriMed (Pharmacy)</p> <p>MHA (Pharmacy)</p> <p>Premier-Innovatix (Pharmacy)</p>
31	Lot numbers	lot_numbers	The lot numbers for all COVID vaccinations administered, concatenated.	n/a
32	Original dose number – Dose 1	ds1_orig_dose_num	Original reported dose number in vaccination series for first dose.	<p>Locally Defined Value Set:</p> <p>1 (Valid first dose)</p> <p>2 (Valid second dose)</p> <p>INV (Invalid dose)</p> <p>UNK (Unknown validity)</p>

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
33	Original dose number – Dose 2	ds2_orig_dose_num	Original reported dose number in vaccination series for second dose.	Locally Defined Value Set: 1 (Valid first dose) 2 (Valid second dose) INV (Invalid dose) UNK (Unknown validity)
34	Dose 1 vaccination event ID	ds1_vax_event_id	The vaccination event's unique identifier within the system for first reported dose (based on vaccination date).	n/a
35	Dose 2 vaccination event ID	ds2_vax_event_id	The vaccination event's unique identifier within the system for second reported dose (based on vaccination date).	n/a
36	Dose 3 vaccination event ID	ds3_vax_event_id	The vaccination event's unique identifier within the system for third reported dose (based on vaccination date).	n/a
37	Dose 4 vaccination event ID	ds4_vax_event_id	The vaccination event's unique identifier within the system for fourth reported dose (based on vaccination date).	n/a
38	Snapshot time	snapshot_time	Data current as of this timestamp.	n/a
39	Partially vaccinated date	partially_vaccinated_date	Date recipient became partially vaccinated (i.e., received first dose of Pfizer or Moderna).	n/a
40	Fully vaccinated date	fully_vaccinated_date	Date recipient became fully vaccinated.	n/a
41	Email	Email_Address	Recipient's email. Derived from value recorded for second dose, unless null, then first dose value is used.	
42	Phone number	Phone_Number	Recipient's phone number. Derived from value recorded for second dose, unless null, then first dose value is used.	
43	Administration date – Dose 3	ds3_admin_date	If given, the third recorded dose administration date for the recipient. Ignores DOSE_NUM field in VW_ALL_IIS_LHJ for determination.	n/a

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
44	Administration date – Dose 4	ds4_admin_date	If given, the fourth recorded dose administration date for the recipient. Ignores DOSE_NUM field in VW_ALL_IIS_LHJ for determination.	n/a
45	Original dose number – Dose 3	ds3_orig_dose_num	Original reported dose number in vaccination series for third dose.	Locally Defined Value Set: 1 (Valid first dose) 2 (Valid second dose) INV (Invalid dose) UNK (Unknown validity)
46	Original dose number – Dose 4	ds4_orig_dose_num	Original reported dose number in vaccination series for fourth dose.	Locally Defined Value Set: 1 (Valid first dose) 2 (Valid second dose) INV (Invalid dose) UNK (Unknown validity)
47	Booster dose flag – Pfizer	Pfizer_Booster	Received at least 3 doses of Pfizer and 12+ years of age. UPDATED 1/25/2022. Previous names: Is_Pfizer_3+_18+; Is_Pfizer_3+_12+ (1/11/2022).	0 (FALSE) 1 (TRUE)
48	Booster dose flag - Pfizer with minimum interval	Pfizer_Booster_Interval	Received at least 3 doses of Pfizer, with minimum interval of 136 days between 2 nd and 3 rd dose, and 12+ years of age. UPDATED 1/25/2022. Previous names: Is_Pfizer_3+_18+_164+; Is_Pfizer_3+_12+_136+ (1/11/2022).	0 (FALSE) 1 (TRUE)
49	Additional dose flag	HAS_ADDITIONAL_DOSE_AND_24_DAYS	Received additional dose administered at least 24 days after series completion (Pfizer recipients 5+ years of age, Moderna and J&J recipients 18+ years of age). Includes any dose that was administered at least 24 days after series completion (2 mRNA or 1 J&J). Includes both additional doses and booster doses. UPDATED 8/24/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	0 (FALSE) 1 (TRUE)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
50	Booster dose flag – Moderna	Moderna_Booster	At least 3 doses of Moderna and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_Moderna_3+_18+.	0 (FALSE) 1 (TRUE)
51	Booster dose flag – Moderna with minimum interval	Moderna_Booster_Interval	At least 3 doses of Moderna, with minimum interval of 136 days between 2 nd and 3 rd dose, and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_Moderna_3+_18+_164+. Changed minimum interval from 164 days to 136 days per updated CDC recommendations.	0 (FALSE) 1 (TRUE)
52	Booster dose flag – J&J	JJ_Booster	At least 2 doses of J&J and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_JJ_2+_18+.	0 (FALSE) 1 (TRUE)
53	Booster dose flag – J&J with minimum interval	JJ_Booster_Interval	At least 2 doses of J&J, with minimum interval of 52 days between 1st and 2 nd dose, and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_JJ_2+_18+_52+.	0 (FALSE) 1 (TRUE)
54	Booster dose flag – mixed mRNA	Pfizer_or_Moderna_Booster	At least 3 doses of Pfizer or Moderna combined and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_Pfizer_or_Moderna_3+_18+.	0 (FALSE) 1 (TRUE)
55	Booster dose flag – mixed mRNA with minimum interval	Pfizer_or_Moderna_Booster_Interval	At least 3 doses of Pfizer or Moderna combined, with a minimum interval of 136 days between 2 nd and 3 rd dose, and 18+ years of age. UPDATED 1/25/2022. Previous name: Is_Pfizer_or_Moderna_3+_18+_164+. Changed minimum interval from 164 days to 136 days per updated CDC recommendations.	0 (FALSE) 1 (TRUE)
56	Additional dose flag – 52 day interval	HAS_ADDITIONAL_DOSE_AND_52_DAY_S	Additional dose administered at least 52 days after series completion	0 (FALSE) 1 (TRUE)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
			UPDATED 8/24/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	
57	Recipient address: state	RECIPIENT_ADDRESS_STATE	The state component of the recipient's address. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	US Postal Service two-character state codes
58	Administration address: state	ADMIN_ADDRESS_STATE	The state component of where the vaccine is administered/ planned to be administered. Exception for mobile clinics. UPDATED 4/5/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.	US Postal Service two-character state codes
59	Patient sharing indicator	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)
60	Booster eligibility flag	IS_BOOSTER_ELIGIBLE	A vaccine recipient is considered eligible for a booster if they meet at least one of the following criteria: Monovalent Booster Eligibility Age 5-11 (Suppress on/after 10/13/2022): 3 rd dose (original booster) - Pfizer Monovalent Booster at least 136 days after 2 nd dose (Pfizer Pediatric) Age 12+ (Suppress on/after 09/06/2022): 3 rd dose (original booster) - Pfizer Monovalent Booster at least 136 days after 2 nd dose (Pfizer/Moderna/Novavax) Age 18+ (Suppress on/after 09/06/2022): 3 rd dose (original booster) - Moderna Monovalent Booster at	0 (FALSE) 1 (TRUE)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
			<p>least 136 days after 2nd dose (Pfizer/Moderna/Novavax)</p> <p>Age 18+ (Suppress on/after 09/06/2022): 2nd dose (original booster) - J&J at least 52 days after 1st dose (J&J)</p> <p>Bivalent Booster Eligibility</p> <p>Age 5+: 3rd dose (updated booster) - Pfizer pediatric bivalent booster at least 52 days after 2nd dose (Pfizer Pediatric/Moderna Under 6)</p> <p>Age group 6-11: 3rd dose (updated booster) - Pfizer Pediatric/Moderna bivalent booster at least 52 days after 2nd dose (Pfizer Pediatric/Moderna)</p> <p>Age 12+: 3rd dose (updated booster) - Pfizer/Moderna bivalent booster at least 52 days after 2nd dose (Pfizer/Moderna/Novavax) or last monovalent booster (Pfizer/Moderna)</p> <p>Age 18+: 2nd dose (updated booster) - Pfizer/Moderna bivalent booster at least 52 days after 1st dose (J&J) or last monovalent booster (Pfizer/Moderna)</p>	
61	Booster eligibility flag – 2nd booster	IS_SECOND_BOOSTER_ELIGIBLE		<p>0 (FALSE) 1 (TRUE)</p> <p>A vaccine recipient is considered eligible for a second booster if they meet at least one of the following criteria:</p> <p>1) Age 50+ and received first booster of any vaccine >= 108 days ago</p> <p>Age 18+ and received J&J vaccine for primary dose, and J&J vaccine for first booster >= 52 days ago</p>
62	Booster dose flag – 2nd Pfizer booster with	Pfizer_Booster_2_Interval	At least 4 doses of Pfizer, with minimum interval of 108 days between 3 rd and 4 th dose, and 12+ years of age	<p>0 (FALSE) 1 (TRUE)</p>

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
	minimum interval			
63	Booster dose flag – 2nd Moderna booster with minimum interval	Moderna_Booster_2_Interval	At least 4 doses of Moderna, with minimum interval of 108 days between 3 rd and 4 th dose, and 18+ years of age	0 (FALSE) 1 (TRUE)
64	Booster dose flag – 2nd booster of mixed mRNA with minimum interval	Pfizer_or_Moderna_Booster_2_Interval	At least 4 doses of Pfizer or Moderna combined, with a minimum interval of 108 days between 3 rd and 4 th dose, and 12+ years of age	0 (FALSE) 1 (TRUE)
65	Booster dose flag – 2nd J&J booster with minimum interval	JJ_Booster_2_Interval	At least 3 doses of J&J, with minimum interval of 108 days between 2 nd and 3 rd dose, and 18+ years of age	0 (FALSE) 1 (TRUE)
66	Booster dose flag - bivalent	BIVALENT_BOOSTER	Age 5+: 3 rd dose (updated booster) - Pfizer pediatric bivalent booster at least 52 days after 2 nd dose (Pfizer Pediatric/Moderna Under 6) Age group 6-11: 3 rd dose (updated booster) - Pfizer Pediatric/Moderna bivalent booster at least 52 days after 2 nd dose (Pfizer Pediatric/Moderna) Age 12+: 3 rd dose (updated booster) - Pfizer/Moderna bivalent booster at least 52 days after 2 nd dose (Pfizer/Moderna/Novavax) or last monovalent booster (Pfizer/Moderna) Age 18+: 2 nd dose (updated booster) - Pfizer/Moderna bivalent booster at least 52 days after 1 st dose (J&J) or last monovalent booster (Pfizer/Moderna)	0 (FALSE) 1 (TRUE)

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
67	Additional dose flag – 108 day interval	has_additional_dose_and_108_days	<p>Second additional dose after completion of primary series.</p> <p>Additional dose that is 108 days after IS_ADDITIONAL_DOSE_AND_24_DAYS flag is set for mRNA vaccine; OR Additional dose that is 108 days after IS_ADDITIONAL_DOSE_AND_52_DAYS flag is set for J&J vaccine.</p> <p>UPDATED 8/24/2022. Derived from value recorded for most recent dose. Previously derived from second dose value.</p>	0 (FALSE) 1 (TRUE)
68	Census tract – recipient address (2020)	CENSUS_TRACT	2020 census tract based on recipient address only.	
69	Census tract – recipient address (2010)	CENSUS_TRACT_10	2010 census tract based on recipient address only.	
70	Census tract – administration address	CENSUS_TRACT_ADMIN_10	2010 census tract based on vaccinating provider’s address only.	
71	HPI 3.0 - census tract	HPI_3_TRACT	Healthy Places Index 3.0 score based on the 2010 census tract from the recipient’s address.	Healthy Places Index
72	HPI 3.0 – zip	HPI_3_ZIP	Healthy Places Index 3.0 score based on the recipient’s address zip (if null, uses the ZCTA zip from the zip-to-ZCTA crosswalk); 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 zip-to-ZCTA crosswalk).	Healthy Places Index
73	HPI 3.0 - mixed	HPI_3_MIXED	HPI_3_TRACT; if null, uses HPI_3_ZIP.	Healthy Places Index
74	Recipient address: concatenated	MIXED_ADDRESS	Concatenation of the recipient address street, city, state, and zip code.	

Field No.	COVID-19 Data Element	Variable Name	Data Element Description	Value Set
75	Administration address: concatenated	MIXED_ADMIN_ADDRESS	Concatenation of the vaccinating provider's address street, city, state, and zip code.	

Notes:

Minimum intervals are based on CDC recommendations, using 28-day months and including a 4-day grace period.