

State of California—Health and Human Services Agency California Department of Public Health



GAVIN NEWSOM Governor

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TO:	California Providers of Pediatric Services
FROM:	Robert Schechter, M.D., Chief <i>ML Success</i> Center for Infectious Diseases Division of Communicable Disease Control, Immunization Branch
SUBJECT:	Updated Moderna COVID-19 Vaccines, mRNA primary series for

children 6 months through 17 years.

HIGHLIGHTS

- Moderna COVID-19 Vaccine is recommended for children 6 months through 17 years of age as a two-dose primary series at varying doses according to age span, given 4-8 weeks apart (<u>CDPH COVID-19 Vaccine Timing</u>). The vaccine is also authorized for administration of an additional dose at least 4 weeks following the second dose to individuals 6 months through 17 years of age with certain kinds of immunocompromise.
- The vaccines for the pediatric age groups are supplied in multiple-dose vials with different colored caps and label borders, depending on the age group (<u>CDPH COVID-19</u> <u>Vaccine Product Guide</u>). Formulations for age groups should not be used interchangeably.
- Under initial standards, unopened vials may be stored frozen between -50°C to -15°C (-58°F to 5°F) until the published expiration date or for up to 30 days at 2°C to 8°C (36°F to 46°F) prior to first use.
- The information sheet about the v-safe smartphone safety monitoring system should be provided to parent/guardians, who should be encouraged to participate.
- This letter is intended to provide information common to all formulations of pediatric Moderna COVID-19 vaccine, as well as point out age-specific differences, and links to CDC, CDPH, FDA, and other resources.



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SUMMARY

In June 2022, the Centers for Disease Control and Prevention (CDC) expanded its recommendation for use of the Moderna COVID-19 Vaccine, under federal Food and Drug Administration Emergency Use Authorization (EUA), to children 6 months through 17 years of age who do not have specific rare contraindications.

BACKGROUND AND COMPOSITION

The Moderna COVID-19 Vaccine is currently licensed to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 18 years of age and older. The U.S. Food and Drug Administration (FDA) has issued an Emergency Use Authorization (EUA) to permit the emergency use of Moderna COVID-19 Vaccine for active immunization to prevent COVID-19 in individuals 6 months of age and older. A third primary series dose of the Moderna COVID-19 Vaccine is authorized for administration at least 4 weeks following the second dose to individuals 6 months through 17 years of age who have been determined to have certain kinds of immunocompromise.

Vaccine components include those listed below, with quantities differing by vaccine formulation:

- Lipids (SM-102, polyethylene glycol [PEG] 2000 dimyristoyl glycerol [DMG], cholesterol, and 1,2-distearoyl-sn-glycero-3-phosphocholine [DSPC])
- Tromethamine and tromethamine hydrochloride
- Acetic acid
- Sodium acetate trihydrate
- Sucrose

Moderna COVID-19 Vaccine does not contain a preservative. The vial stoppers are not made with natural rubber latex.

More information, including composition, can be found in age-appropriate letters at this site: <u>Spikevax and Moderna COVID-19 Vaccine | FDA.</u>

ACIP RECOMMENDATIONS FOR VACCINE USE

Eligible Groups

Moderna COVID-19 Vaccine may currently be given to <u>any individual 6 months through 17</u> <u>years of age under the EUA</u>. Current COVID-19 vaccine recommendations by ACIP and CDC may be found at <u>COVID-19 ACIP Vaccine Recommendations</u>. Individuals 6 months and older who are <u>moderately or severely immunocompromised</u> are eligible for an additional dose to complete the primary series. ACIP recommends that individuals 5 years and older receive a bivalent booster dose, at least 2 months after completion of their primary series. Further information can be found in the <u>Bivalent Booster Provider Letter</u>. Moderna COVID-19 Vaccine, mRNA for children 6 months through 17 years November 15, 2022 Page 4 of 9

Minimum Ages and Intervals

- Minimum age for any dose: 6 months
- Minimum interval between dose 1 and 2: 28 days
- Minimum interval between primary series and additional dose (only for individuals 6 months and older who have moderate or severe immune compromise): 28 days

Contraindications and Precautions

Do not administer Moderna COVID-19 Vaccine to individuals with a known history of a severe allergic reaction (e.g., anaphylaxis) to any component of the Moderna COVID-19 Vaccine or a known diagnosed allergy to a component of the Moderna COVID-19 Vaccine. Vaccine components are listed on the <u>FDA fact sheets</u>.

CDC considers a history of an immediate allergic reaction to any vaccine other than COVID-19 vaccine or to any injectable therapy (i.e., intramuscular, intravenous, or subcutaneous vaccines or therapies [excluding subcutaneous immunotherapy for allergies, i.e., "allergy shots"]) to be a precaution but not a contraindication to vaccination. Additional clinical considerations and information on contraindications and precautions can be found in the <u>CDC Use of COVID-19 Vaccines in the United States Interim Clinical Considerations</u>.

Administration with Other Vaccines

<u>COVID-19 vaccines may be administered without regard to timing of other vaccines</u>, including on the same day as other vaccines. If multiple vaccines are administered at a single visit, administer each injection in a different injection site. Muscles that may be used for multiple injections include:

- Ages ≥3 years: Deltoid
- Ages 6 months-2 years: Vastus lateralis of the anterolateral thigh

Best practices for multiple injections include:

- Label each syringe with the name and the dosage (amount) of the vaccine, lot number, the initials of the preparer, and the exact beyond-use time, if applicable.
- Separate injection sites by 1 inch or more, if possible.
- Administer the COVID-19 vaccines and vaccines that may be more likely to cause a local reaction in different limbs, if possible.

See <u>general best practices</u> and <u>The Epidemiology and Prevention of Vaccine-Preventable</u> <u>Diseases: "the Pink Book"</u> for further information.

DOSAGE AND ADMINISTRATION

Dosage of Moderna COVID-19 Vaccine varies by age group. For details, please refer to the <u>CDPH COVID-19 Vaccine Product Guide</u>.

Dosage

6 months through 5 years

25 micrograms/dose 50 micrograms/dose

• 6 years through 11 years

100 micrograms/dose

• 12 years and older

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For reference, please see the <u>CDPH COVID-19 Vaccine Timing</u> job aid. Interim COVID-19 immunization schedules for children aged 6 months-17 years can also be found at the <u>Stay Up to Date with COVID-19 Vaccines Including Boosters</u> site.

Storage and Handling

Storage and handling are the same for all formulations of Moderna COVID-19 Vaccine.

During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. Do not refreeze thawed vials. Thawed vials can be handled in room light conditions.

Current Storage Standards for all Moderna Cap Formulations

Current Storage Standards for Moderna COVID-19 Vaccines	Viability
Freezer (-50°C to -15°C)	Until Published Expiration Date
Refrigerator (2°C to 8°C)	Up to 30 Days
Post puncture	12 hours

Vial Storage and Handling

<u>Frozen Storage:</u> Store frozen between -50°C to -15°C (-58°F to 5°F). <u>Storage after Thawing:</u> **Do not refreeze once thawed.**

- Storage at 2°C to 8°C (36°F to 46°F): Vials may be stored refrigerated between 2°C to 8°C (36°F to 46°F) for up to 30 days prior to first use. Vials should be discarded 12 hours after the first puncture.
- Storage at 8°C to 25°C (46°F to 77°F): Vials may be stored between 8°C to 25°C (46°F to 77°F) for a total of 24 hours. Vials should be discarded 12 hours after the first puncture. Total storage at 8°C to 25°C (46°F to 77°F) must not exceed 24 hours.

<u>Transportation of Thawed Vials at 2°C to 8°C (36°F to 46°F)</u>: If transport at -50°C to -15°C (-58°F to 5°F) is not feasible, available data support transportation of one or more thawed vials for up to 12 hours at 2°C to 8°C (36°F to 46°F) when shipped using shipping containers which have been qualified to maintain 2°C to 8°C (36°F to 46°F) and under routine road and air transport conditions with shaking and vibration minimized. Once thawed and transported at 2°C to 8°C (36°F to 46°F), vials should not be refrozen and should be stored at 2°C to 8°C (36°F to 46°F) until use.

REACTOGENICITY AND ADVERSE EVENTS

Available safety and immunogenicity data for Moderna COVID-19 Vaccines in children and adolescents are similar to those seen in young adults. Materials presented at ACIP meetings regarding safety and immunogenicity data can be found at the <u>COVID-19 ACIP</u> <u>Vaccine Recommendations</u>.

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Adverse reactions noted during clinical trials following administration of the primary series vary by age group:

<u>6 months through 36 months of age:</u> irritability/crying, pain at the injection site, sleepiness, loss of appetite, fever, swelling at the injection site, erythema at the injection site, and axillary (or groin) swelling/tenderness.

<u>37 months through 17 years of age</u>: pain at the injection site, fatigue, headache, myalgia, fever, chills, nausea/vomiting, axillary (or groin) swelling/tenderness, arthralgia, erythema at the injection site, and swelling at the injection site.

Before vaccination, providers should counsel COVID-19 vaccine recipients, parents, or guardians about expected local (e.g., pain, swelling, erythema at the injection site) and systemic (e.g., fever, fatigue, headache, chills, myalgia, arthralgia) post-vaccination reactions. Localized axillary lymphadenopathy on the same side as the vaccinated arm has been observed following vaccination with mRNA COVID-19 vaccines.

Antipyretic or analgesic medications can be taken for the treatment of post-vaccination local or systemic symptoms; these medications should not be used prophylactically for the purposes of prevention of post-vaccination symptoms. In general, aspirin is not recommended for use in children and adolescents ages 17 years and younger as an antipyretic or analgesic due to the risk of Reye's syndrome.

Anaphylactic reactions have been rarely reported following receipt of COVID-19 vaccines. Administration of antihistamines before COVID-19 vaccination to prevent allergic reactions is not generally recommended. CDC recommends that providers consider observing all vaccine recipients for 15 minutes after vaccination for syncope. Additionally, providers should consider observing people with the following medical histories for 30 minutes to monitor for allergic reactions:

- An allergy-related contraindication to a different type of COVID-19 vaccine
- Non-severe, immediate (onset within 4 hours) allergic reaction after a previous dose of COVID-19 vaccine.
- Anaphylaxis after non-COVID-19 vaccines or injectable therapies.

Appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs. Further information on anaphylaxis management can be found in the interim considerations for the <u>Preparing for the Potential Management of Anaphylaxis after COVID-19 Vaccination</u> and <u>laboratory evaluation of people who experience anaphylaxis after vaccination</u>.

<u>Syncope (fainting)</u> may occur in association with any injectable vaccine, especially in adolescents. Procedures should be in place to prevent falling injuries and manage syncopal reactions. People should be seated or lying down during vaccination and observed for 15 minutes after vaccination as noted above. If syncope develops, patients should be observed until symptoms resolve.

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Myocarditis is a rare, serious adverse event that has been reported primarily after receipt of the second dose of mRNA COVID-19 vaccines, with the highest risk currently observed in males aged 12–39 years. The rare risk of myocarditis might be further reduced by a longer interval between the first and second dose. FDA has authorized and ACIP and CDC have recommended Moderna COVID-19 vaccines in children aged 6 months through 17 years based on the determination that the benefits of COVID-19 vaccination outweigh the risks.

Further information on Reactogenicity and Adverse Events can be found at the <u>Interim</u> <u>Clinical Considerations for Use of COVID-19 Vaccines Currently Approved or Authorized</u> <u>in the United States</u> website under the headings:

- Patient Counseling
- Contraindications and Precautions
- Safety considerations for mRNA COVID-19 vaccines: Pfizer-BioNTech & Moderna

VACCINE INFORMATION FACTSHEET

Prior to a child 6 months – 17 years of age receiving Moderna COVID-19 Vaccine:

- Communicate to the parent or guardian information consistent with the ageappropriate "<u>Vaccine Information Fact Sheet for Recipients and Caregivers</u>," and
- Provide a copy of the age-appropriate Vaccine Information Fact Sheet or direct the parent or guardian to <u>eua.modernatx.com/covid19vaccine-eua/recipients/</u>.

Documentation for Children 6 months through 17 years

Provide a vaccination card to the parent/guardian that includes the date when the recipient needs to return for the next dose. Administration of each dose must be reported to the state or regional immunization registry.

To help monitor immunization safety in children, provide the v-safe information sheet to parent/guardians and encourage them to participate in v-safe. For more information, visit: <u>www.cdc.gov/vsafe</u>.

Reporting of vaccine adverse events

Adverse events that occur in a recipient following COVID-19 vaccination should be reported to VAERS. Vaccination providers are <u>required by the FDA to report</u> the following that occur after COVID-19 vaccination under BLA or EUA:

- Vaccine administration errors
- Serious adverse events
- Cases of Multisystem Inflammatory Syndrome
- Cases of COVID-19 that result in hospitalization or death

Reporting is encouraged for any other clinically significant adverse event, even if it is uncertain whether the vaccine caused the event. Information on how to submit a report to VAERS is available at <u>https://vaers.hhs.gov</u> or by calling 1-800-822-7967.

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Additional CDC guidance on preventing, reporting, and managing administration errors can be found at <u>Interim Clinical Considerations for Use of COVID-19 Vaccines Currently</u> <u>Approved or Authorized in the United States</u>.

ORDERING AND BILLING

Order Moderna COVID-19 Vaccine via your provider myCAvax account.

Billing Information for Vaccine

COVID-19 vaccines have been purchased by the federal Government for all people in the US, regardless of insurance or immigration status, at no cost to recipients.

Vaccination providers are only able to be reimbursed for administering the vaccine. They may seek appropriate reimbursement from a program or plan that covers COVID-19 vaccine administration fees for the vaccine recipient. However, there should be no patient cost sharing, or out-of-pocket cost, for all payor types for vaccine administration regardless of whether or not the vaccinator is in the payor's provider network. Providers may not charge an office visit or other fee if COVID-19 vaccination is the sole medical service provided, nor require additional medical services to receive COVID-19 vaccination.

The California Medical Association has provided a clear guide on reimbursement.

Medi-Cal Fee-For-Service and Medi-Cal Managed Care

The Department of Health Care Services is reimbursing the COVID-19 vaccine administration reimbursement under its fee-for-service (FFS) system. To avoid delays and denials in payment, physicians will need to submit claims for COVID-19 vaccine administration to Medi-Cal FFS rather than Medi-Cal managed care plans.

- CLAIM SUBMISSION Medi-Cal FFS and Medi-Cal managed care claims should be submitted directly to Medi-Cal FFS with the patient's Medi-Cal FFS Benefit Identification Card (BIC) ID number rather than the managed care plan ID number.
- BILLING Because vaccine has been purchased by the federal government, claims should include vaccine administration CPT codes only (not vaccine cost codes).
- REIMBURSEMENT RATE (ADMINISTRATION) \$40 for each dose approved.

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RESOURCES

- <u>FDA Emergency Use Authorization Fact Sheets for Moderna COVID-19 Vaccine for 6</u> months - 17 years for either Healthcare Providers or Recipients and Caregivers.
- <u>EZIZ COVID-19 Resources</u>: Updated information on vaccine management, administration, and more.
- <u>CDC Administration Overview of Moderna COVID-19 Vaccine</u>: Includes job aids for vaccine preparation, storage and handling, transport guidance, and more.
- <u>CDC Use of COVID-19 Vaccines in the United States Interim Clinical Considerations</u>
- AAP vaccine recommendations and other information are available to AAP members at <u>www.cispimmunize.org/</u>.
- Vaccine Adverse Event Reporting System (VAERS), 1-800-822-7967.
- <u>Vaccine Injury Compensation Program (VICP)</u>: Moderna COVID-19 Vaccine[™] is covered by the federal VICP.
- Additional information on vaccines can be found at <u>http://www.cdc.gov/vaccines/</u>.
- Provider Letter with information on Bivalent Boosters.