## Moderna COVID-19 Vaccine
### At-A-Glance

Guidance below summarizes basic storage, preparation, scheduling, administration, and dosage for ALL Moderna COVID-19 Vaccine products.

### Ages: 6 months through 5 years
**BIVALENT**
(pink capped vial with yellow-bordered label)

### Ages: 6 months and older
**BIVALENT**
(blue capped vial with gray-bordered label)

### Storage and Handling Basics
Find additional guidance on storing vaccine properly at:
- Vaccine Storage and Handling Toolkit — Updated with COVID-19 Vaccine Storage and Handling Information
- Moderna COVID-19 Vaccines | FDA
- Moderna COVID-19 Vaccines | FDA

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>BIVALENT</th>
<th>BIVALENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pink capped vials with yellow-bordered label</td>
<td>Dark blue capped vial with gray-bordered label</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplied in multidose vial</th>
<th>2 doses per vial</th>
<th>Do not confuse these with single-dose vials. Discard vial after 2 doses have been removed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 months and older:</td>
<td>5 doses per vial</td>
<td></td>
</tr>
</tbody>
</table>

### Storage Temperature:
**Before Puncture**
- Do NOT store vaccine in an ultra cold freezer.

#### BIVALENT
- Pink capped vials with yellow-bordered label

### Between:
- -50°C and -15°C (-58°F and 5°F) until the expiration date
- 2°C and 8°C (36°F and 46°F) for up to 30 days
- 8°C and 25°C (46° and 77°F) for a total of 24 hours. Discard vial and unused vaccine after 24 hours.

**NOTE:** The beyond-use date (30 days) replaces the manufacturer’s expiration date but NEVER extends it. Always use the earliest date. Do NOT use vaccine if the expiration date or beyond-use date has passed.

### Thawing Frozen Vaccine
- Do NOT refreeze thawed vaccine.

#### BIVALENT
- Dark blue capped vial with gray-bordered label

### Between:
- 2°C and 8°C (36°F and 46°F)
- OR
- 15°C and 25°C (46°F and 77°F)

Amount of time needed to thaw vaccine varies based on temperature and number of vials.

### Storage Temperature:
**After 1st Puncture**
- Do NOT use after beyond-use date times.

#### BIVALENT
- Dark blue capped vial with gray-bordered label

### Between:
- 2°C and 25°C (36°F and 77°F) for up to:
  - **8 hours** - bivalent vaccine for ages 6 months through 5 years (pink capped with yellow bordered label)
  - **12 hours** - all other Moderna COVID-19 vaccine products

Discard vial and any unused vaccine after these time frames.
Moderna COVID-19 Vaccine
At-A-Glance

Preparation and Administration Basics
Find additional guidance on preparing and administering vaccine properly at:

- Interim Clinical Considerations for Use of COVID-19 Vaccines | CDC
- Vaccine Administration Resource Library | CDC
- Moderna COVID-19 Vaccines | FDA
- Moderna (modernacovid19global.com)

Preparation

- If the vaccine is frozen, allow to thaw before preparing the injection. Thaw vaccine in the refrigerator or at room temperature. Unpunctured vials may be stored:
  - Between 8°C to 25°C (46°F to 77°F) for a total of 24 hours. Track this 24-hour beyond-use time.
  - Discard unpunctured vials thawed at temperatures above 8°C (46°F) after 24 hours.

- Do NOT refreeze thawed vaccine.
- Check the vial label to ensure the expiration date or beyond-use date/time has not passed.
- Use Moderna expiration date tool at https://modernacovid19global.com/vial-lookup
- Gently swirl the thawed vaccine vial. Do not shake the vial.

Preparation

- If the vaccine is frozen, allow to thaw before preparing the injection. Thaw vaccine in the refrigerator or at room temperature. Unpunctured vials may be stored:
  - Between 8°C to 25°C (46°F to 77°F) for a total of 24 hours. Track this 24-hour beyond-use time.
  - Discard unpunctured vials thawed at temperatures above 8°C (46°F) after 24 hours.

- Do NOT use a punctured vial beyond-use date times.

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Ages</th>
<th>Beyond-use date/time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIVALENT Pink capped vials with yellow-bordered label</td>
<td>6 months through 5 years</td>
<td>After first puncture, use within 8 hours</td>
</tr>
<tr>
<td>BIVALENT Dark blue capped vial with gray-bordered label</td>
<td>6 months and older</td>
<td>After first puncture, use within 12 hours</td>
</tr>
</tbody>
</table>

Administration

- COVID-19 vaccine may be administered at the clinical visit as other other routinely recommended vaccines.

- Do NOT "pool" vaccine from more than 1 vial to obtain a dose. If a full dose cannot be withdrawn, discard the vial and any remaining vaccine.

- Gently swirl vaccine to mix. Do NOT shake.

<table>
<thead>
<tr>
<th>Recipient's Age</th>
<th>Use</th>
<th>Administer</th>
<th>Route</th>
<th>Needle gauge and length</th>
<th>Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 months through 5 years of age</td>
<td>Bivalent Pink capped vial with Yellow-bordered label</td>
<td>Previously vaccinated with two doses of Moderna COVID-19 Vaccine 10 µg/0.2 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1&quot;</td>
<td>6 months–2 years of age: Vastus lateralis muscle in the anterolateral thigh⁴</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOTE: This vial contains 2 doses.</td>
<td></td>
<td></td>
<td>3–5 years of age: Deltoid muscle in the upper arm⁴</td>
</tr>
<tr>
<td>6 months and older</td>
<td>Bivalent Dark blue capped vial with gray-bordered label</td>
<td>6 months–11 years: 25 µg/0.25 mL 12 years and older: 50 µg/0.5 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1–1½&quot;</td>
<td>6 months–2 years of age: Vastus lateralis muscle in the anterolateral thigh⁴</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 years and older: Deltoid muscle in the upper arm⁴</td>
</tr>
</tbody>
</table>

¹The deltoid muscle in the upper arm may be used if the muscle mass is adequate.

¹¹Vastus lateralis muscle in the anterolateral thigh may be used.
Scheduling Doses

- The number of bivalent doses varies by age, vaccine, previous COVID-19 vaccines received, and the presence of moderate or severe immune compromise. Review CDC’s Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Authorized in the United States for detailed clinical guidance when scheduling doses, and the Interim COVID-19 Immunization Schedule.
- Children who turn from 5 to 6 years of age: Use vaccine from the dark blue-capped vial (0.25 mL/25 mcg) for all doses.
- Consider observing persons after vaccination to monitor for allergic reactions and syncope:
  - **30 minutes for persons with:**
    - An allergy-related contraindication to a different type of COVID-19 vaccine
    - A history of non-severe, immediate (onset within 4 hours) allergic reaction after a previous dose of COVID-19 vaccine
    - A history of anaphylaxis after non-COVID-19 vaccines or injectable therapies
  - **15 minutes:** All other persons

Document the vaccination

- For each vaccine recipient, record:
  - Both in their medical record and on their vaccination card: vaccination date and vaccine administered (product name, manufacturer, lot number)
  - In their medical record: vaccination site and route, vaccinator’s name and title.
  - On their vaccination card: name/location of clinic or health care professional, note bivalent dose if possible.

Report the vaccination to the appropriate state/local immunization information system (IIS).

Contraindications and precautions

Screen for contraindications and precautions before administering EACH dose — even if the vaccine was previously administered. Use CDC’s Prevaccination Checklist for COVID-19 Vaccination to determine whether the vaccine may be administered.

Contraindications

- History of:
  - Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of the COVID-19 vaccine
- Known diagnosed allergy to a component of the COVID-19 vaccine

Precautions

History of:

- Anaphylaxis after any vaccine other than COVID-19 vaccine or after any injectable therapy, including intramuscular, intravenous, or subcutaneous vaccines or therapies, but excluding subcutaneous immunotherapy for allergies (i.e., “allergy shots”).
- Non-severe, immediate (onset less than 4 hours) allergic reaction after a dose of one type of COVID-19 vaccine have a precaution to the same type of COVID-19 vaccine
- An allergy-related contraindication to one type of COVID-19 vaccine is a precaution to the other types of COVID-19 vaccines
- Moderate to severe acute illness, with or without fever
- Multisystem inflammatory syndrome in children (MIS-C) or adults (MIS-A)
- Myocarditis or pericarditis after a dose of an mRNA or Novavax COVID-19 vaccine

Report adverse reactions and administration errors

Healthcare professionals are required to report to the Vaccine Adverse Event Reporting System (VAERS) including:

- Vaccine administration errors (whether associated with an adverse event [AE] or not)
- Serious AEs (irrespective of attribution to vaccination)
- Multisystem inflammatory syndrome (MIS) in adults and children
- Cases of myocarditis
- Cases of pericarditis
- Cases of COVID-19 that result in hospitalization or death
- Any additional AEs and revised safety requirements per the Food and Drug Administration’s conditions for use of an authorized vaccine throughout the duration of the EUA event.
- Healthcare professionals are encouraged to report to VAERS clinically important adverse events even if unsure whether the vaccine caused the adverse event.