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

### Storage and Handling Basics

Find additional guidance on storing vaccine properly at:
- [Storage and Handling of Moderna COVID-19 Vaccines](https://www.cdc.gov) | [CDC](https://www.fda.gov)
- [Vaccine Storage and Handling Toolkit](https://www.modernacovid19vaccines.com) with COVID-19 Vaccine Storage and Handling Information
- [Moderna COVID-19 Vaccines](https://www.fda.gov) | [FDA](https://www.fda.gov)

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Monovalent</th>
<th>Monovalent</th>
<th>Monovalent</th>
<th>Bivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blue capped vials with magenta-bordered label</td>
<td>Blue capped vial with purple-bordered label</td>
<td>Red capped vial with blue-bordered label</td>
<td>Dark blue capped vial with gray-bordered label</td>
</tr>
<tr>
<td>Supplied in multidose vial</td>
<td>10 doses per vial</td>
<td>5 doses per vial</td>
<td>Per vial:</td>
<td>12 years of age and older:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 primary doses (0.5 mL)</td>
<td>5 doses per vial</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Discard vial and any remaining vaccine after 10 punctures.</td>
<td>6 - 11 years of age:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 doses per vial</td>
</tr>
</tbody>
</table>

**Storage Temperature: Before Puncture**

- Do NOT store vaccine in a ultra cold freezer

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°F 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.

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 12 hours

Between:
- 2°C and 25°C (36°F and 77°F) for up to 12 hours.
- Discard vial and any unused vaccine after 12 hours.
Preparation and Administration Basics
Find additional guidance on preparing and administering vaccine properly at:
- Administration of Moderna COVID-19 Vaccines | CDC
- Interim Clinical Considerations for Use of COVID-19 Vaccines | CDC

Preparation

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Ages</th>
<th>Beyond-use date/time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 months through 5 years</td>
<td>After first puncture, use within 12 hours</td>
</tr>
<tr>
<td></td>
<td>6 through 11 years</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 years and older</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 years and older</td>
<td></td>
</tr>
</tbody>
</table>

Do NOT use a punctured vial after 12 hours

Administration

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

<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>Monovalent Blue capped vial with magenta-bordered label</td>
<td>Primary series: 25 µg/0.25 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1”</td>
<td>6 months – 2 years of age: Vastus lateralis muscle in the anterolateral thigh†</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 - 5 years of age: Deltoid muscle in the upper arm†</td>
</tr>
<tr>
<td>6 through 11 years</td>
<td>Monovalent Blue capped vial with purple-bordered label</td>
<td>Primary series: 50 µg/0.5 mL</td>
<td>IM Injctn</td>
<td>22–25 gauge, 1”</td>
<td>Deltoid muscle in the upper arm†</td>
</tr>
<tr>
<td>12 years or older</td>
<td>Monovalent Red vial cap with blue-bordered label</td>
<td>Primary series: 100 µg/0.5 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1 – 1½”</td>
<td>Deltoid muscle in the upper arm†</td>
</tr>
<tr>
<td>6 years or older</td>
<td>Bivalent Dark blue capped vial with gray-bordered label</td>
<td>Booster dose only: 6-11 years: 25 µg/0.25 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1 – 1½”</td>
<td>Deltoid muscle in the upper arm†</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 years and older: 50 µg/0.5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The deltoid muscle in the upper arm may be used if the muscle mass is adequate.
† Vastus lateralis muscle in the anterolateral thigh may be used.
Scheduling Doses
Graphics below provide an overview for the number of doses of vaccine based on the type of dose (primary versus booster), recipient’s age and health status. Review CDC’s Interim COVID-19 Immunization Schedule for detailed clinical guidance when scheduling doses.

For Most Persons

- **Moderna (ages 6 months–4 years)**
  - PRIMARY
  - In 4-8 weeks
  - PRIMARY

- **Moderna (ages 5 years and older)**
  - PRIMARY
  - In 4-8 weeks
  - PRIMARY
  - In at least 2 months
  - BIVALENT mRNA BOOSTER

For Moderately or Severely Immunocompromised Persons

- **Moderna (ages 6 months–4 years)**
  - PRIMARY
  - In 4 weeks
  - PRIMARY
  - In at least 4 weeks
  - PRIMARY

- **Moderna (ages 5 years and older)**
  - PRIMARY
  - In 4 weeks
  - PRIMARY
  - In at least 2 months
  - PRIMARY
  - BIVALENT mRNA BOOSTER

* Administer an age-appropriate mRNA bivalent booster (i.e., Pfizer-BioNTech for people age 5 years and either Pfizer-BioNTech or Moderna for people ages 6 years and older). For people who previously received a monovalent booster dose(s), the bivalent booster dose is administered at least 2 months after the last monovalent booster dose.