Pfizer-BioNTech COVID-19 Vaccine
At-A-Glance

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

### Storage and Handling Basics
Find additional guidance on storing the vaccine properly at:
- Storage and Handling of Pfizer-BioNTech COVID-19 Vaccines | CDC
- Vaccine Storage and Handling Toolkit-Updated with COVID-19 Vaccine Storage and Handling Information
- Pfizer-BioNTech COVID-19 Vaccines | FDA
- Pfizer-BioNTech COVID-19 Vaccine | cvdvaccine.com

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Ages: 6 months through 4 years (Maroon capped vial and bordered label)</th>
<th>Ages: 5 through 11 years (Orange capped vial and bordered label)</th>
<th>Ages: 12 and older (Gray capped vial and bordered label)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MONOVALENT Primary Series</td>
<td>MONOVALENT Primary Series</td>
<td>MONOVALENT Primary Series</td>
</tr>
<tr>
<td></td>
<td>BIVALENT Booster Dose</td>
<td>BIVALENT Booster Dose</td>
<td>BIVALENT Booster Dose</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Ages</th>
<th>6 months through 4 years</th>
<th>5 through 11 years</th>
<th>12 years and older</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10 doses per vial</td>
<td>10 doses per vial</td>
<td>6 doses per vial</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Requires diluent</td>
<td>Requires diluent</td>
<td>No diluent</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### Storage Temperature: Before Puncture
- Do NOT store vaccine in a standard freezer

**Do NOT use after 12 hours**
- Before:
  - -90°C and -60°C (-130°F and -76°F) until the expiration date*
  - 2°C and 8°C (36°F and 46°F) for up to 10 weeks
- **NOTE:** The beyond-use date (10 weeks) 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

**Do NOT use after 12 hours**
- Between:
  - 2°C and 8°C (36°F and 46°F)
  - OR
  - Up to 25°C (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.

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*Vaccine expires 12 months after the manufacture date on the vial. Use Pfizer-BioNTech expiration date tool at [lotexpiry.cvdvaccine.com](http://lotexpiry.cvdvaccine.com).
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At-A-Glance

Preparation and Administration Basics
Find additional guidance on preparing and administering vaccine properly at:
- Administration of Pfizer-BioNTech COVID-19 Vaccines | CDC
- Pfizer-BioNTech COVID-19 Vaccines | FDA
- Pfizer-BioNTech COVID-19 Vaccine | cvdvaccine.com

Preparation

<table>
<thead>
<tr>
<th>Vial cap color</th>
<th>Monovalent Maroon Cap</th>
<th>Monovalent Orange Cap</th>
<th>Bivalent Orange Cap</th>
<th>Monovalent Gray Cap</th>
<th>Bivalent Gray Cap</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Ages</th>
<th>6 months through 4 years</th>
<th>5 through 11 years</th>
<th>12 years and older</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diluent*</td>
<td>2.2 mL per vial</td>
<td>1.3 mL per vial</td>
<td>1.3 mL per vial</td>
</tr>
<tr>
<td>Beyond-use date/time</td>
<td>After mixing with diluent, use within 12 hours.</td>
<td>After 1st puncture, use within 12 hours.</td>
<td></td>
</tr>
<tr>
<td>Do NOT use a punctured vial after 12 hours</td>
<td>After mixing with diluent, use within 12 hours.</td>
<td>After 1st puncture, use within 12 hours.</td>
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</tr>
</tbody>
</table>

* Diluent: Use sterile 0.9% sodium chloride (normal saline, preservative-free) included in the ancillary supply kit. Do not use bacteriostatic 0.9% sodium chloride or any other diluent.

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 4 years</td>
<td>Monovalent Maroon cap and maroon bordered label</td>
<td>Primary dose 3 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 thigh†</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>3 years and older: Deltoid muscle in the upper arm‡</td>
</tr>
<tr>
<td>5 – 11 years</td>
<td>Monovalent Orange cap and orange bordered label</td>
<td>Primary dose 10 µg/0.2 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1&quot;</td>
<td>Deltoid muscle in the upper arm‡</td>
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</tr>
<tr>
<td>12 years of age and older</td>
<td>Monovalent Gray cap and gray bordered label</td>
<td>Primary dose 30 µg/0.3 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1½&quot;</td>
<td>Deltoid muscle in the upper arm‡</td>
</tr>
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</tr>
<tr>
<td></td>
<td>Bivalent Gray cap and gray bordered label</td>
<td>Booster dose 30 µg/0.3 mL</td>
<td>IM injection</td>
<td>22–25 gauge, 1½&quot;</td>
<td>Deltoid muscle in the upper arm‡</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

Pfizer-BioNTech (ages 6 months–4 years)
- PRIMARY In 3-8 weeks 
- PRIMARY
- PRIMARY In at least 8 weeks

Pfizer-BioNTech (Ages 5 years and older)
- PRIMARY In 3-8 weeks
- PRIMARY
- PRIMARY In at least 2 months
- BIVALENT mRNA BOOSTER*

For Moderately or Severely Immunocompromised Persons

Pfizer-BioNTech (ages 6 months–4 years)
- PRIMARY In 3 weeks
- PRIMARY
- PRIMARY In at least 8 weeks

Pfizer-BioNTech (ages 5 years and older)
- PRIMARY In 3 weeks
- PRIMARY
- PRIMARY In at least 4 weeks
- PRIMARY In at least 2 months
- 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.