

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.

Ages: 6 months through 4 years
(Maroon capped vial and bordered label)



MONOVALENT
Primary Series

Ages: 5 through 11 years
(Orange capped vial and bordered label)



MONOVALENT
Primary Series



BIVALENT
Booster Dose

Ages: 12 and older
(Gray capped vial and bordered label)



MONOVALENT
Primary Series



BIVALENT
Booster Dose

Storage and Handling Basics

Find additional guidance on storing the vaccine properly at:

- [Storage and Handling of Pfizer-BioNTech COVID-19 Vaccines | CDC](#)
- [Pfizer-BioNTech COVID-19 Vaccines | FDA](#)
- [Vaccine Storage and Handling Toolkit-Updated with COVID-19 Vaccine Storage and Handling Information](#)
- [Pfizer-BioNTech COVID-19 Vaccine | cvdvaccine.com](#)

Vial cap color	Monovalent Maroon Cap	Monovalent Orange Cap	Bivalent Orange Cap	Monovalent Gray Cap	Bivalent Gray Cap
Ages	6 months through 4 years	5 through 11 years		12 years and older	
Supplied in multidose vial	10 doses per vial Requires diluent	10 doses per vial Requires diluent	10 doses per vial Requires diluent	6 doses per vial No diluent	6 doses per vial No diluent
Storage Temperature: Before Puncture Do NOT store vaccine in a standard freezer	<p>Between: -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</p> <p>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.</p>				
Thawing Frozen Vaccine Do NOT refreeze thawed vaccine	<p>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.</p>				
Storage Temperature: After 1st Puncture Do NOT use after 12 hours	<p>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.</p>				

* Vaccine expires 12 months after the manufacture date on the vial. Use Pfizer-BioNTech expiration date tool at lotexpiry.cvdvaccine.com

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Preparation and Administration Basics

Find additional guidance on preparing and administering vaccine properly at:

▪ [Administration of Pfizer-BioNTech COVID-19 Vaccines | CDC](#)

▪ [Vaccine Administration Resource Library | CDC](#)

▪ [Pfizer-BioNTech COVID-19 Vaccines | FDA](#)

▪ [Pfizer-BioNTech COVID-19 Vaccine | cvdvaccine.com](#)

Preparation

Vial cap color	 Monovalent Maroon Cap	 Monovalent Orange Cap	 Bivalent Orange Cap	 Monovalent Gray Cap	 Bivalent Gray Cap
Ages	6 months through 4 years		5 through 11 years		12 years and older
Diluent*	2.2 mL per vial	1.3 mL per vial	1.3 mL per vial	 No diluent	 No diluent
Beyond-use date/time	After mixing with diluent, use within 12 hours.			After 1st puncture, use within 12 hours.	
 Do NOT use a punctured vial after 12 hours	If using a vial for the 1st time, record the date and time the vial was punctured. NOTE: The beyond-use time (12 hours) 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 time has passed.				

* 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.

Recipient's Age	Use	Administer	Route	Needle gauge and length	Site
6 months through 4 years	 Monovalent Maroon cap and maroon bordered label	Primary dose 3 µg/0.2 mL	IM injection	22–25 gauge, 1"	6 months – 2 years of age: Vastus lateralis muscle in the anterolateral thigh [†]
					3 years and older: Deltoid muscle in the upper arm [‡]
5 – 11 years	 Monovalent Orange cap and orange bordered label	Primary dose 10 µg/0.2 mL	IM injection	22–25 gauge, 1"	Deltoid muscle in the upper arm [‡]
	 Bivalent Orange cap and orange bordered label	Booster dose 10 µg/0.2 mL			
12 years of age and older	 Monovalent Gray cap and gray bordered label	Primary dose 30 µg/0.3 mL	IM injection	22–25 gauge, 1 – 1½"	Deltoid muscle in the upper arm [‡]
	 Bivalent Gray cap and gray bordered label	Booster dose 30 µg/0.3 mL			

[†] 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.

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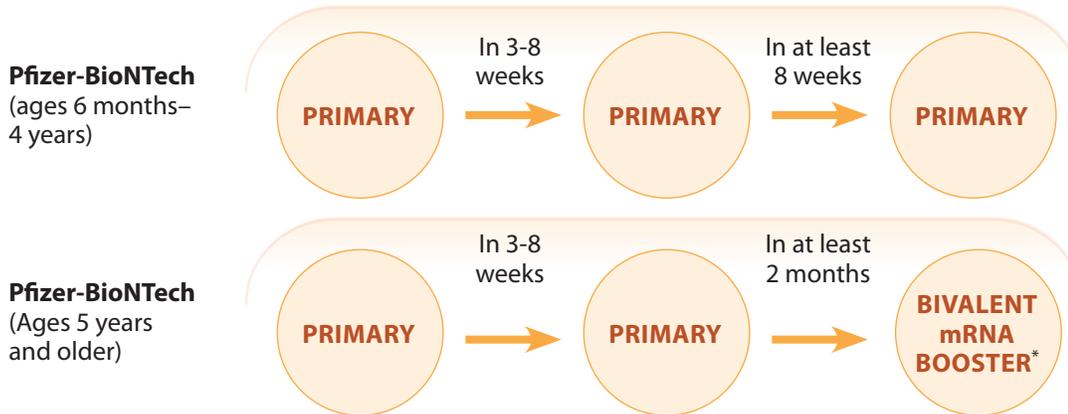
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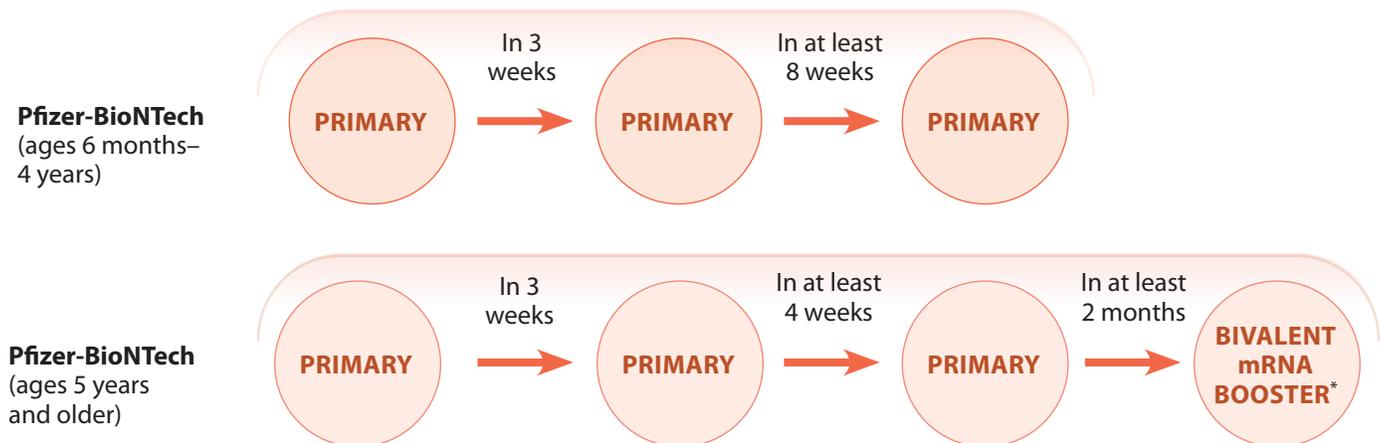
Scheduling Doses

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



For Moderately or Severely Immunocompromised Persons



* 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.