



The table below provides basic information on the proper storage, preparation, and administration of the currently authorized COVID-19 vaccine products in the United States. For additional information and detailed clinical guidance go to the manufacturers' website and CDC's webpages listed.

General Information

	Pfizer-BioNTech	Moderna	Janssen
Authorizations and Approvals	www.fda.gov/emergency- preparedness-and-response/ coronavirus-disease-2019-covid-19/ pfizer-biontech-covid-19-vaccine	<u>www.fda.gov/emergency-</u> preparedness-and-response/ <u>coronavirus-disease-2019-covid-19/</u> <u>moderna-covid-19-vaccine</u>	www.fda.gov/emergency- preparedness-and-response/ coronavirus-disease-2019- covid-19/janssen-covid-19-vaccine
CDC Vaccine Information	www.cdc.gov/vaccines/covid-19/info- by-product/pfizer/index.html	www.cdc.gov/vaccines/covid-19/info-by- product/moderna/index.html	www.cdc.gov/vaccines/covid-19/ info-by-product/janssen/index.html
Manufacturer Contact Information	Website: <u>www.cvdvaccine.com</u> Medical information: 800-438-1985 Customer service: 800-879-3477	Website: <u>www.modernatx.com</u> Medical Information: 866-663-3762	Website: <u>www.vaxcheck.jnj</u> Medical information: 800-565-4008

Storage & Handling

	Pfizer-BioNTech			Moderna	Janssen
	Ages 5 through 11 years (orange cap)	Ages 12 years and older (purple cap)	Ages 12 years and older (gray cap)	Ages 18 years and older	Ages 18 years and older
How Supplied	Multidose vial: 10 doses	Multidose vial: 6 doses	Multidose vial: 6 doses	Multidose vial: Maximum of 15 primary-series doses or 20 booster doses. Do not puncture the vial stopper more than 20 times.	Multidose vial: 5 doses
Diluent	0.9% sodium chloride (preservative-free, normal saline) provided in the ancillary kit. Do NOT use other diluent.		Do NOT dilute prior to use.	None	None
	1.3 mL of diluent	1.8 mL of diluent			
Storage	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	Between: -90°C and -60°C (-130°F and -76°F) until the expiration date -25°C and -15°C (-13°F and 5°F) for up to 2	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	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	Between: 2°C and 8°C (36°F and 46°F) until the expiration date 9°C and 25°C (47°F and 77°F) for up to 12
Temperatures: Before Puncture	weeks 8°C and 25°C (46°F and 77°F) for a total of 12	weeks 2°C and 8°C (36°F and 46°F) for up to 1	weeks 8°C and 25°C (46°F and 77°F) for a total of	8°C and 25°C (46° and 77°F) for a total of 24 hours	hours
	hours prior to dilution	month (31 days) Up to 25°C (77°F) for a	12 hours prior to first puncture		
	in a standard freezer	total of 2 hours (prior to dilution)	Do NOT freeze or store in a standard freezer		



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	Pfizer-BioNTech			Moderna	Janssen
	Ages 5 through 11 years (orange cap)	Ages 12 years and older (purple cap)	Ages 12 years and older (gray cap)	Ages 18 years and older	Ages 18 years and older
Storage Temperatures: After Puncture	Between: 2°C and 25°C (36°F and 77°F) for up to 12 hours Discard any unused vaccine after 12 hours.	Between: 2°C and 25°C (36°F and 77°F) for up to 6 hours Discard any unused vaccine after 6 hours.	Between: 2°C and 25°C (36°F and 77°F) for up to 12 hours Discard any unused vaccine 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 or after the vial has been punctured 20 times.	Between: 2°C and 8°C (36°F and 46°F) for up to 6 hours 9°C and 25°C (47°F and 77°F) for up to 2 hours Discard any unused vaccine after these time frames.
Transport Temperatures*: Before Puncture	A tray containing vaccine vials between -90°C and -60°C (-130°F and -76°F) or Individual vials between 2°C and 8°C (36°F and 46°F)	A tray of vaccine vials between t -90°C and -60°C (-130°F and -76°F) or Individual vials between -25°C and -15°C (-13°F and 5°F) or individual vials at 2°C to 8°C (35°F to 46°F) for up to 12 hours.	A tray containing vaccine vials between -90°C and -60°C (-130°F and -76°F) or Individual vials between 2°C and 8°C (36°F and 46°F)	Between: -50°C and -15°C (-58°F and 5°F) or 2°C and 8°C (36°F and 46°F) for up to 12 cumulative hours, once or multiple times	Between: 2°C and 8°C (36°F and 46°F)
Transport Temperatures*: After Puncture	Transporting punctured/mixed vials is not recommended. ⁺	Between: 2°C to 25°C (36°F to 77°F) for up to 6 hours.	Transporting punctured/mixed vials is not recommended. ⁺	Between: 2°C and 25°C (36°F and 77°F) for up to 12 hours.	Between: 2°C and 8°C (36°F and 46°F) for up to 6 hours

Vaccine Administration

	Pfizer-BioNTech			Moderna	Janssen
	Ages 5 through 11 years (orange cap)	Ages 12 years and older (purple cap)	Ages 12 years and older (gray cap)	Ages 18 years and older	Ages 18 years and older
Type of Vaccine	mRNA			mRNA	Viral vector
Primary Series Schedule [‡]	2-doses, separated by 21 days; both doses must be the appropriate Pfizer-BioNTech vaccine formulations for recipient's age			2 doses, separated by 28 days; both doses must be Moderna vaccine	1 dose An mRNA COVID-19 vaccine series is preferred over Janssen vaccine for primary vaccination.
Additional Dose for Moderately or Severely Immunocompromised People [‡]	At least 28 days after completion of the primary Pfizer-BioNtech 2-dose series At least 28 days after one dose of Janssen COVID-19 vaccine			At least 28 days after completion of the primary 2-dose Moderna series At least 28 days after one dose of Janssen COVID-19 vaccine	Not authorized as an additional primary dose. Moderately or severely immunocompromised persons who received a primary dose of Janssen vaccine should receive an mRNA vaccine at least 28 days after the Janssen vaccine.

* CDC recommends following manufacturer's instructions for transporting vaccine.

† There may be instances when the only option is to transport vaccine in a punctured vial or predrawn syringe. See the U.S. Pharmacopeia COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners (https://www.usp.org/covid-19/vaccine-handling-toolkit) for guidance in transporting vaccine under these conditions.

‡ COVID-19 vaccines and other vaccines may be administered without regard to timing, including simultaneous administration.



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	Ages 5 through 11 years (orange cap)	Ages 12 years and older (purple cap)	Ages 12 years and older (gray cap)	Ages 18 years and older	Ages 18 years and older	
Booster Schedule [*]	Not authorized for this age group.	and an additional m receive a booster do after receiving the m • Use of heterologous booster doses is allo 18 years of age and c	ine primary series e or the additional tely and severely d persons) d a Janssen COVID-19 ry series should se at least 2 months trine. derately or severely ed and received a sen COVID-19 Vaccine RNA vaccine, should se at least 2 months RNA vaccine. (mix and match) wed for persons older. Only a Pfizer- ould be administered	At least 5 months after the last dose of a COVID-19 mRNA vaccine primary series (i.e., after the 2nd dose or the additional [3rd] dose for moderately and severely immunocompromised persons) • Persons who received a Janssen COVID-19 Vaccine as the primary series should receive a booster dose at least 2 months after the Janssen vaccine. • Persons who are moderately or severely immunocompromised and received a primary dose of Janssen COVID-19 Vaccine and an additional mRNA vaccine, should receive a booster dose at least 2 months after receiving the mRNA vaccine. • Use of heterologous (mix and match) booster doses is allowed for persons 18 years of age and older.	 mRNA vaccines are preferred[†] At least 2 months (8 weeks) after the primary series dose of Janssen COVID-19 Vaccine. Persons who are moderately or severely immunocompromised and received a primary dose of Janssen COVID-19 Vaccine and an additional mRNA vaccine, should receive a booster dose at least months after receiving the mRNA vaccine. Persons who received a COVID-19 mRNA vaccin primary series (i.e., after the 2nd dose or the additional [3rd] dose for moderately and severel immunocompromised persons) can receive a Janssen booster dose at least 5 months after the primary series. mRNA vaccines are preferred. Use of heterologous (mix and match) booster dose is allowed. mRNA vaccines are preferred. 	
		For additional information, see Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Approved or Authorized in the United States <u>https://www.cdc.gov/vaccines/covid-19/clinical-</u> <u>considerations/covid-19-vaccines-us.html#considerations-covid19-vax-immuncompromised</u>				
Primary Series, Additional, and Booster Dosage	0.2 mL for primary doses An additional primary dose or booster dose is not recommended at this time.	0.3 mL for all doses		0.5 mL (primary series or additional doses) 0.25 mL (booster dose)	0.5 mL (primary series or booster dose) Do not use for additiona dose.	
Needle Gauge/ Length	5 through 18 years of age: 22–25 gauge, 1" 19 years of age and older: 22–25 gauge, 1 – 1½"			22–25 gauge, 1 – 1½"	22–25 gauge, 1 – 1½"	
Site	Deltoid [‡]			Deltoid [‡]	Deltoid [‡]	

* COVID-19 vaccines and other vaccines may be administered without regard to timing, including simultaneous administration.

+ Although mRNA vaccines are preferentially recommended in most situations over the Janssen COVID-19 Vaccine, the Janssen COVID-19 Vaccine may be considered in some situations. See Interim Clinical Considerations at <u>www.cdc.gov/vaccines/covid-19/clinical-considerations/covid-19-vaccines-us.html#primary-series</u> for additional information.

+ Vastus lateralis muscle in the anterolateral thigh may be used. A 1.5 inch needle should be used, although a 1 inch needle may be used if the skin is stretched tightly and subcutaneous tissues are not bunched.



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	Pfizer-BioNTech			Moderna	Janssen	
	Ages 5 through 11 years (orange cap)	Ages 12 years and older (purple cap)	Ages 12 years and older (gray cap)	Ages 18 years and older	Ages 18 years and older	
Thawing Frozen Vaccine	Between: 2°C and 8°C (36°F and 46°F) or Room temperature up to 25°C (77°F) for 30 minutes. Vials must reach room temperature before dilution. Do NOT refreeze thawed vaccine.			Between: 2°C and 8°C (36°F and 46°F) or 8°C and 25°C (46°F and 77°F) Do NOT refreeze thawed vaccine.	Do NOT freeze.	
Mixing Vaccine	Allow vial(s) to reach room temperature before mixing. Mix vaccine with 1.3 mL of 0.9% sodium chloride (preservative-free, normal saline).	Allow vial(s) to reach room temperature before mixing. Mix vaccine with 1.8 mL of 0.9% sodium chloride (preservative-free, normal saline).	Do NOT mix with any diluent.	Do NOT mix with any diluent.	Do NOT mix with any diluent.	
Contraindications/ Precautions	 Known diagnosed al considerations/covid For the Janssen COVID-19 Va adenovirus vectors, et adenovirus vectors, et Most people determ administered vaccine Immediate allergic re vaccines or therapies This includes nor reaction is unknow Immediate (within 4 Contradiction to one Moderate to severe a 	 Contraindications History of: Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to component of the COVID-19 vaccine Known diagnosed allergy to a component of the vaccine (see https://www.cdc.gov/vaccines/covid-19 vaccine For the Janssen COVID 19 Vaccine, thrombosis with thrombocytopenia syndrome (TTS) following receipt of a previous Janssen COVID-19 vaccine (or other COVID-19 vaccines not currently authorized in the United States that are based on adenovirus vectors, e.g., Astrazeneca) 				
Post-Vaccination Observation	 30 minutes: People with a history of a contraindication to another type of COVID-19 vaccine product, immediate (within 4 hours of exposure) non-severe allergic reaction to a COVID-19 vaccine, immediate allergic reaction of any severity to a non-COVID-19 vaccine or injectable therapies, anaphylaxis due to any cause 15 minutes: All other persons 					
Most Common Adverse Events	Injection site: pain, swelling, rednessInjection site: pain, swelling, rednessInjection site: pain, redness, swellingSystemic: fatigue, headache, muscle pain, chills, fever, joint painSystemic: fatigue, headache, muscle pain, chills, fever, nausea, joint painSystemic: fatigue, headache, muscle pain, nausea, fever					

* Vastus lateralis muscle in the anterolateral thigh may be used. A 1.5 inch needle should be used, although a 1 inch needle may be used if the skin is stretched tightly and subcutaneous tissues are not bunched.

+ For the purpose of this guidance, an immediate allergic reaction is defined as any hypersensitivity-related signs or symptoms such as urticaria, angioedema, respiratory distress (e.g., wheezing, stridor), or anaphylaxis that occur within 4 hours following exposure to a vaccine or medication.