

# COVID-19 Vaccine Summary Chart



APhA COVID-19 RESOURCES:  
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## Quick Links

- CDC: [Frequently Asked Questions about COVID-19 Vaccination](#)
- CDC: [Understanding and Explaining Viral Vector COVID-19 Vaccines](#)
- FDA: [COVID-19 Vaccines](#)
- CDC: [V-safe After Vaccination Health Checker](#)
- CDC: [VaxText<sup>SM</sup> COVID-19 Vaccination Second-Dose Reminder](#)
- USP: [COVID-19 Vaccine Handling: Operational Considerations for Healthcare Practitioners](#)

This chart covers information for the adult-indicated Pfizer-BioNTech vaccine only. The Pfizer-BioNTech COVID-19 vaccine is now recommended for children ages 5–11 years old. Children require a smaller dose and therefore, providers must use the pediatric-indicated Pfizer-BioNTech COVID-19 vaccine to vaccinate this population. For information about the pediatric-indicated vaccine, reference APhA's "COVID-19 Vaccination in Adolescents and Children" resource in the [COVID-19 Resources: Know the Facts](#) library.

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>FDA Approval</b>	<a href="#">Issued August 23, 2021</a> <ul style="list-style-type: none"><li>• For use in adults ages 16 years and older</li></ul>		
<b>Prescribing Information</b>	<a href="#">Comirnaty Package Insert</a>		
<b>Emergency Use Authorization</b>	Issued December 11, 2020 <a href="#">Revised May 10, 2021</a> <ul style="list-style-type: none"><li>• For use in persons ages 12-15 years old</li><li>• For use in persons ages 5-11 years old (not detailed in this chart)</li></ul> <a href="#">Revised October 29, 2021</a>	<a href="#">Issued December 18, 2020</a>	<a href="#">Issued February 27, 2021</a>
<b>Fact sheet</b>	<ul style="list-style-type: none"><li>• <a href="#">Health care providers</a></li><li>• <a href="#">Recipients/caregivers</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Health care providers</a></li><li>• <a href="#">Recipients/caregivers</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Health care providers</a></li><li>• <a href="#">Recipients/caregivers</a></li></ul>
<b>ACIP recommendations</b>	<a href="#">Interim recommendation for use:</a> Persons aged <b>≥5 years</b> for prevention of COVID-19	<a href="#">Interim recommendation for use:</a> Persons aged <b>≥18 years</b> for prevention of COVID-19	<a href="#">Interim recommendation for use:</a> Persons aged <b>≥18 years</b> for prevention of COVID-19



# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
CDC resources	<a href="#">Pfizer-BioNTech COVID-19 Vaccine</a>	<a href="#">Moderna COVID-19 Vaccine</a>	<a href="#">Janssen COVID-19 Vaccine</a>
CDC clinical considerations	<a href="#">Interim Clinical Considerations</a>		
Dosing and Administration			
Vaccine type	mRNA		Viral Vector
Administer	Intramuscular (I.M.)		
Administration Errors	Refer to CDC's <a href="#">COVID-19 Vaccine Administration Errors of Deviations</a> guide for information about how to prevent and report administration errors. Reference additional scenarios that deviate from CDC recommendations but are not considered administration errors.		
Primary Vaccine Series			
Dose	30 mcg ( <b>0.3 mL each</b> ) for individuals ≥12 years old; for individuals ages 5-11 years old, use pediatric-indicated vaccine (not detailed in this chart)	100 mcg ( <b>0.5 mL each</b> )	5x10 <sup>10</sup> viral particles ( <b>0.5 mL each</b> )
Doses per vial	6	10-11 dose vial or 13-15 dose vial	5
Schedule	Two-dose series	Two-dose series	Single dose
Recommended interval	21 days from first dose	28 days from first dose	N/A
Earliest interval	17 days from first dose	24 days from first dose	N/A
Additional Dose			
Additional dose recommendations	<a href="#">Recommended</a> for moderately or severely immunocompromised individuals ≥5 years old		Not recommended at this time.
Recommended interval	≥ 28 days after primary series		

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<i>Additional Dose (continued)</i>			
<b>Additional Dose Options</b>	Individuals ≥18 years old: <ul style="list-style-type: none"> <li>• Pfizer-BioNTech 0.3 mL</li> <li>• Moderna 0.5 mL*</li> </ul> Individuals 12-17 years old: <ul style="list-style-type: none"> <li>• Pfizer-BioNTech 0.3 mL</li> </ul> Individuals 5-11 years old: <ul style="list-style-type: none"> <li>• Pfizer-BioNTech 0.2 mL (Pediatric-indicated vaccine)</li> </ul>	Individuals ≥18 years old: <ul style="list-style-type: none"> <li>• Moderna 0.5 mL</li> <li>• Pfizer-BioNTech 0.3 mL*</li> </ul>	
<i>Dosing and Administration (continued)</i>			
<i>Booster Dose</i>			
<b>Booster dose eligibility based on primary series</b>	<b>Should</b> get a booster dose: <ul style="list-style-type: none"> <li>• People aged ≥ 12 years</li> <li>• Moderately or severely immunocompromised individuals ≥ 12 years old who received an additional dose (3 doses of mRNA vaccine)</li> </ul>	<b>Should</b> get a booster dose: <ul style="list-style-type: none"> <li>• People aged ≥ 18 years</li> <li>• Moderately or severely immunocompromised individuals ≥ 18 years old who received an additional dose (3 doses of mRNA vaccine)</li> </ul>	<b>Should</b> get a booster dose: <ul style="list-style-type: none"> <li>• People aged ≥ 18 years</li> <li>• Moderately or severely immunocompromised individuals</li> </ul>
<b>Recommended interval</b>	<b>≥ 5 months</b> after primary series; or after additional dose for individuals who are moderately or severely immunocompromised		<b>≥ 2 months</b> after initial dose
<b>Booster dose options</b>	<p><b>Individuals ages 12-17 years old</b> may only receive Pfizer-BioNTech (0.3mL)</p> <p><b>Individuals aged ≥ 18 years</b> have the option to receive any of the FDA-approved/authorized COVID-19 booster products, but the Pfizer-BioNTech and Moderna vaccines are preferred in most situations</p> <p>Pfizer-BioNTech 0.3 mL <b>OR</b> Moderna <b>0.25 mL</b> <b>OR</b> Janssen (J&amp;J) 0.5 mL</p>		

\*If the product administered for the primary series is unavailable, an alternative mRNA COVID-19 vaccine may be given as an additional dose

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Storage*</b>			
<b>How product arrives</b>	Frozen liquid. No preservative.		Liquid suspension. No preservative.
<b>Long-term storage</b>	Purple Cap: Ultra-low freezing until expiry date** OR store frozen between -25°C to -15°C (-13°F to 5°F) for up to 2 weeks  Gray Cap: Ultra-low freezing until expiry date** OR store in the refrigerator for up to 10 weeks prior to use; if product is received at refrigerated temperature, do NOT refreeze	Store frozen between -50°C to -15°C (-58°F to 5°F) until expiry date; check expiry date here: <a href="https://www.modernatx.com/covid19vaccine-eua/providers/vial-lookup">https://www.modernatx.com/covid19vaccine-eua/providers/vial-lookup</a>	Refrigerate until expiry date; check the expiry date here: <a href="https://vaxcheck.jnj/">https://vaxcheck.jnj/</a>
<b>Thawing</b>	Purple Cap: Thaw in refrigerator for at least 2–3 hours or at room temperature; must be at room temperature for at least 30 mins before dilution; do NOT refreeze  Gray Cap: Thaw in refrigerator for about 6 hours or at room temperature for 30 minutes prior to use; do NOT refreeze	Thaw in refrigerator for at least 2–3 hours or at room temperature; must be at room temperature for at least 30 mins before administration; do NOT refreeze	Product is stored frozen by manufacturer until shipped at refrigerated temperatures; If vaccine is still frozen upon receipt, thaw at refrigerated temperature or if immediate use is required, thaw at room temperature; do NOT refreeze
<b>Max time refrigerated unpunctured</b>	Purple Cap: 30 days Gray Cap: 10 weeks	30 days	Until expiry date
<b>Max time at room temperature unpunctured</b>	Purple Cap: 2 hours Gray Cap: 12 hours	24 hours	12 hours

\*Temperature Key:

- Ultra-low Frozen Temperature: -90°C to -60°C (-130°F to 76°F)
- Refrigerated Temperature: 2°C to 8°C (36°F to 46°F)
- Pfizer-BioNTech Frozen Temperature: -25°C to -15°C (-13°F to 5°F)
- Room Temperature: 9°C to 25°C (47°F to 77°F)
- Moderna Frozen Temperature: -50°C to -15°C (-58°F to 5°F)

**\*\*Note:** Cartons and vials of Pfizer-BioNTech COVID-19 Vaccine with an expiry date of August 2021 through February 2022 printed on the label may remain in use for 3 months beyond the printed date as long as authorized storage conditions between -90°C to -60°C (-130°F to -76°F) have been maintained.

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Dose Preparation</b>			
<b>Dilution</b>	Purple Cap: Dilute with 1.8 mL of 0.9% sodium chloride (normal saline, preservative free) Gray Cap: NOT diluted	Not diluted.	
<b>Coloring</b>	Off-white suspension		Colorless to slightly yellow, clear very opalescent suspension
<b>Handling</b>	Do NOT shake; <b>invert only</b>	Do NOT shake; <b>swirl before drawing up dose</b>	
<b>Max time refrigerated after first punctured</b>	Purple Cap: 6 hours after dilution Gray Cap: 12 hours	12 hours	6 hours
<b>Max time at room temperature after first punctured</b>	Purple Cap: 6 hours after dilution Gray Cap: 12 hours	12 hours Maximum of 20 punctures into vial septum; after this, discard unused doses	<b>2 hours</b>
<b>Efficacy and Safety Information</b>			
<b>Publications</b>	<a href="#">Dagan, et al. NEJM. Feb 24, 2021</a> <a href="#">Polack, et al. NEJM. Dec 31, 2020</a> <a href="#">Walsh, et al. NEJM. Dec 17, 2020</a>	<a href="#">Baden, et al. NEJM. Feb 4, 2021</a> <a href="#">Anderson, et al. NEJM. Dec 17, 2020</a> <a href="#">Jackson, et al. NEJM. Nov 12, 2020</a>	<a href="#">Sadoff, et al. NEJM. Jan 13, 2021</a>
<b>Overall efficacy; prevention of COVID-19 infection</b>	<b>95%</b> beginning 7 days after second dose: <a href="#">primary analysis</a> of Phase III trial data in 43,538 volunteers	<b>94%</b> beginning 14 days after second dose: <a href="#">primary analysis</a> of Phase III trial data in >30,000 volunteers	<b>67%</b> beginning 14 days after single dose: <a href="#">primary analysis</a> of Phase III trial data in >40,000 volunteers
<b>Prevention of severe COVID-19 infection</b>	<b>89%</b>	<b>100%</b>	<b>85%</b>
<b>Prevention of asymptomatic COVID-19 infection</b>	Under evaluation	Limited data suggest some degree of prevention	Data suggest a 60% reduction in asymptomatic infection from 29 days after dose

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Efficacy and Safety Information</b> <i>(continued)</i>			
<b>Study demographics</b>	<p>Diversity of volunteers: 81.9% White; 26.2% Hispanic/Latino; 9.8% African American; 4.4% Asian; &lt;3% other races/ethnicities</p> <p>Age and sex distribution: 50.6% male; 49.4% female; 21.4% 65 years and older</p>	<p>Diversity of volunteers: 79.4% White; 20% Hispanic/Latino; 9.7% African American; 4.7% Asian; &lt;3% other races/ethnicities</p> <p>Age and sex distribution: 52.6% male; 47.4% female; 25.3% 65 years and older</p>	<p>Diversity of volunteers: 59% White; 45% Hispanic/Latino ; 19% African American; 3% Asian ; 9% Native American</p> <p>Age and sex distribution: 55% male; 45% female; 34% 60 years and older</p>
<b>Patient Counseling</b>	<ul style="list-style-type: none"> <li>• <b>Injection site:</b> Pain, swelling, erythema at injection site, localized axillary lymphadenopathy (80%–89% of vaccinated persons*)</li> <li>• <b>Systemic:</b> Fever, fatigue, headache, chills, myalgia, arthralgia (55%–83% of vaccinated persons*; acetaminophen or ibuprofen may be used)</li> <li>• These symptoms tend to be more common after the second dose and resolve 1–3 days after vaccination</li> <li>• Reports suggest there is an increased risk of myocarditis and pericarditis, particularly in young adults, after vaccination; symptom onset generally occurs within a few days after vaccination and resolve with appropriate medical management; refer to CDC's guidance on <a href="#">Myocarditis and Pericarditis</a></li> <li>• Anaphylaxis following vaccination is noted in US <a href="#">postmarket surveillance</a> at a rate of 4.7 cases/million for Pfizer-BioNTech and at a rate of 2.5 cases/million for Moderna as of 1/18/21; unless contraindicated, benefit of vaccination outweighs risk of anaphylaxis; refer to CDC's guidance on <a href="#">Managing Anaphylaxis</a></li> <li>• Access a comprehensive summary of local reactions, systemic reactions, adverse events, and serious adverse events for the <a href="#">Pfizer</a> or <a href="#">Moderna</a> COVID-19 vaccines</li> </ul> <p><i>* Depending on the vaccine, age group, and vaccine dose</i></p>		<ul style="list-style-type: none"> <li>• <b>Injection site:</b> Pain, swelling, erythema</li> <li>• <b>Systemic:</b> Headache, fatigue, muscle ache, nausea, fever</li> <li>• <a href="#">Warn</a> about the <a href="#">rare</a> potential onset of symptoms of thrombocytopenia syndrome (TTS) 1–2 weeks after vaccination, including shortness of breath, chest pain, leg swelling, abdominal pain, persistent headache, or bruising around injection site.</li> <li>• Access a comprehensive summary for the <a href="#">Janssen</a> COVID-19 vaccine.</li> </ul>

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Efficacy and Safety Information</b> <i>(continued)</i>			
<b>Contraindications</b>	<ul style="list-style-type: none"> <li>Severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine               <ul style="list-style-type: none"> <li>Persons with a contraindication to mRNA COVID-19 vaccines (including due to a known allergy to polyethylene glycol [PEG]) have a precaution to Janssen COVID-19 vaccine, and vice versa</li> <li>Persons with a contraindication to Janssen COVID-19 vaccine (including due to a known allergy to polysorbate) have a precaution to mRNA COVID-19 vaccines</li> </ul> </li> <li>Immediate (within 4 hours) allergic reaction of any severity after a previous dose or known (diagnosed) allergy to a component of the vaccine (see ingredients below)</li> <li>Persons with contraindication to one mRNA vaccine should not receive doses of either mRNA vaccine (Pfizer-BioNTech or Moderna)</li> <li>If screen positive for a contraindication, do not vaccinate and consider referral to allergist-immunologist</li> </ul>		
<b>Precautions</b>	<ul style="list-style-type: none"> <li>Among persons without a contraindication, a history of any immediate (within 4 hours) allergic reaction to other vaccines or injectable therapies</li> <li>Persons with a contraindication to mRNA COVID-19 vaccines (Pfizer-BioNTech or Moderna) have a precaution to Janssen COVID-19 vaccine, and vice versa</li> <li>If screen positive for a precaution, complete a risk assessment, consider referral to allergist-immunologist, and observe for 30 minutes postvaccination</li> </ul>		





# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Clinical Considerations</b>			
<b>Interchangeability of COVID-19 vaccines</b>	<p>In general, COVID-19 vaccines are not interchangeable; some nuances include:</p> <ul style="list-style-type: none"> <li>• If the first dose of an mRNA COVID-19 vaccine was received, but the patient is unable to complete the series (e.g., contraindication), then the Janssen COVID-19 vaccine may be given at a minimum interval of 28 days from mRNA dose and the patient is considered to have received a valid, single-dose Janssen vaccination, not a mixed vaccination series</li> <li>• If the mRNA COVID-19 vaccine product given for the first dose cannot be determined and it has been at least 28 days, a second dose of either product can be administered</li> <li>• For moderate to severely immunocompromised individuals, if the original mRNA vaccines administered is not available it is acceptable to administer the other mRNA vaccine</li> </ul>		
<b>Coadministration with other vaccines</b>	May be administered without regard to timing (can be administered on same day and without waiting period); if multiple vaccines are administered at a single visit, administer each injection in a different injection site per best practices; have discussion with patient regarding potential vaccine reactions and how to manage		
<b>Coadministration with antipyretic/analgesic</b>	Prophylactic administration of antipyretic or analgesic medications for the prevention of postvaccination symptoms is NOT recommended; these medications <i>may be used if postvaccination symptoms occur, and patient need exists</i>		
<b>Persons with a history of SARS-CoV-2 infection</b>	Vaccination should be offered regardless of prior SARS-CoV-2 infection		
<b>Persons with a history of MIS-C or MIS-A</b>	There is limited data on the safety and efficacy of COVID-19 vaccines in people with a history of multisystem inflammatory syndrome in children (MIS-C) or in adults (MIS-A); <a href="#">access more information</a> on the risks and benefits		
<b>Persons treated with antibodies</b>	Persons who received monoclonal antibody therapy for COVID-19 infection treatment should defer vaccination for 90 days		



# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Clinical Considerations</b> <i>(continued)</i>			
<b>Persons vaccinated outside of the U.S.</b>	<ul style="list-style-type: none"> <li>Persons vaccinated outside of the U.S. are considered fully vaccinated, if:               <ul style="list-style-type: none"> <li>They received all recommended doses of a single or two-dose COVID-19 vaccine series currently FDA-approved/authorized in the U.S.</li> <li>They completed all of the recommended doses of a <a href="#">WHO-EUL COVID-19 vaccine</a> or a mixed series of an WHO-EUL COVID-19 vaccine and a FDA-approved/authorized COVID-19 vaccine</li> </ul> </li> <li>Persons who received only one dose in a two-dose series of FDA-approved/authorized COVID-19 vaccine may receive a second dose as close to the recommended time as possible and do not have to restart their series</li> <li>Persons vaccinated outside of the U.S. should be offered a primary vaccination series with an FDA-approved/authorized COVID-19 vaccine (minimum interval of 28 days since their last dose), if:               <ul style="list-style-type: none"> <li>They received only the first dose of a multidose WHO-EUL COVID-19 vaccine</li> <li>They were NOT vaccinated with a WHO-EUL COVID-19 vaccine or FDA-approved/authorized COVID-19 vaccine</li> </ul> </li> <li>For more information, or to determine whether an individual is eligible to receive additional or booster doses once they are considered fully vaccinated, refer to CDC's <a href="#">interim guidance on persons vaccinated outside of the U.S.</a></li> </ul>		
<b>Persons who received COVID-19 vaccine as part of a clinical trial</b>	<ul style="list-style-type: none"> <li>Persons who received COVID-19 vaccine as part of a clinical trial are considered fully vaccinated, if:               <ul style="list-style-type: none"> <li>They received all of the recommended "active" (not placebo) primary series doses of a <a href="#">WHO-EUL COVID-19 vaccine</a> that is not FDA-approved or FDA-authorized</li> <li>They did not receive a WHO-EUL COVID-19 vaccine, but a U.S. data and safety monitoring board or equivalent has independently confirmed efficacy (i.e., Novavax COVID-19 Vaccine, Moderna COVID-19 Vaccine in children aged 6-17 years)</li> </ul> </li> <li>For more information, or to determine whether an individual is eligible to receive additional or booster doses once they are considered fully vaccinated, refer to CDC's <a href="#">interim guidance on persons vaccinated in clinical trials</a></li> </ul>		



# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Additional Considerations by Age</b>			
<b>Children and adolescents (&lt;18 years old)</b>	Children and adolescents ≥5 years of age are eligible for vaccination; considerations for vaccinating this age group are covered in APhA's "COVID-19 Vaccination in Adolescents and Children" resource in the <a href="#">COVID-19 Resources: Know the Facts</a> library	Not recommended to persons <18 years of age	Not recommended to persons <18 years of age
<b>Women aged &lt; 50 years</b>	No additional considerations.	No additional considerations.	May receive Janssen COVID-19 vaccine; should be made aware of the rare risk of TTS and the availability of mRNA vaccines
<b>Additional Considerations for People with Underlying Medical Conditions</b>			
<b>Immunocompromised persons</b>	May be vaccinated; counsel on the potential for a reduced immune response to the vaccine (efficacy) and the need to follow current guidance to protect themselves against COVID-19 (e.g., masks, social distancing); antiviral therapy is unlikely to impact development of a protective antibody response; for individuals who are moderately or severely immunocompromised: <ul style="list-style-type: none"> <li>An additional dose is recommended 28 days after completion of a two-dose mRNA primary series and a booster dose may be given 5 months after the additional dose</li> <li>A booster dose is recommended 2 months after an initial dose of Janssen COVID-19 vaccine</li> </ul>		
<b>Persons with autoimmune disorder</b>	May be vaccinated; no safety and efficacy data available, but persons with autoimmune disorders were included in clinical trials		
<b>People with a history of myocarditis or pericarditis</b>	People with a history of myocarditis/pericarditis unrelated to an mRNA COVID-19 vaccine may receive any FDA-authorized COVID-19 vaccine as long as the episode of has resolved; people with a history of myocarditis/pericarditis after first dose of mRNA COVID-19 vaccine should speak with their physician to determine whether they should receive a second dose		

# COVID-19 Vaccine Summary Chart (continued)

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
Additional Considerations for People with Underlying Medical Conditions (continued)			
Persons with a history/risk for thrombosis	No additional considerations.	No additional considerations.	Persons with a history of an episode of an immune-mediated syndrome characterized by thrombosis and thrombocytopenia, such as heparin-induced thrombocytopenia (HIT), should avoid use; persons with a history or risk of venous thromboembolism are not believed to be more susceptible to TTS following receipt of vaccine
Persons with a history of Guillain-Barre syndrome	May receive any FDA-Approved or authorized COVID-19 vaccine; should be made aware of the possible association between the Janssen COVID-19 vaccine and an increased risk of GBS, a patient with a history of GBS and the availability of mRNA COVID-19 vaccines		
Other special populations	Persons with a history of Bell's palsy may be vaccinated; persons with a history of dermal filler use may experience temporary swelling at or near the site of filler injection following vaccination and should follow up with their health care provider if this occurs		
Additional Considerations for People Who Are Pregnant or Lactating			
Pregnant/lactating persons	COVID-19 vaccination is recommended for people who are pregnant, lactating, trying to get pregnant now, or who might want to be pregnant in the near future; postauthorization <a href="#">safety monitoring</a> of >30,000 pregnant women has not revealed a safety problem; mRNA and viral vector COVID-19 vaccines are not considered live virus vaccines and are not considered a risk to the breastfeeding infant		



# COVID-19 Vaccine Summary Chart

Vaccine	Comirnaty and Pfizer-BioNTech (BNT162b2)	Moderna (mRNA-1273)	Janssen (Ad26.CoV2.S)
<b>Ingredients</b>			
	<ul style="list-style-type: none"> <li>Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2</li> <li>2[(polyethylene glycol)*-2000]-N,N-ditetradecylacetamide</li> <li>1,2-distearoyl-sn-glycero-3-phosphocholine</li> <li>Cholesterol</li> <li>(4-hydroxybutyl)azanediylbis(hexane-6,1-diyl)bis(2-hexyldecanoate)</li> <li>Potassium chloride</li> <li>Monobasic potassium phosphate</li> <li>Sodium chloride</li> <li>Dibasic sodium phosphate dihydrate</li> <li>Sucrose</li> </ul>	<ul style="list-style-type: none"> <li>Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2</li> <li>Polyethylene glycol (PEG)* 2000 dimyristoyl glycerol (DMG)</li> <li>1,2-distearoyl-sn-glycero-3-phosphocholine</li> <li>Cholesterol</li> <li>SM-102 (proprietary to Moderna)</li> <li>Tromethamine</li> <li>Tromethamine hydrochloride</li> <li>Acetic acid</li> <li>Sodium acetate</li> <li>Sucrose</li> </ul>	<ul style="list-style-type: none"> <li>Recombinant, replication-incompetent Ad26 vector, encoding a stabilized variant of the SARS-CoV-2 Spike (S) protein</li> <li>Citric acid</li> <li>Trisodium citrate</li> <li>Ethanol</li> <li>2-hydroxypropyl-β-cyclodextrin</li> <li>Polysorbate-80*</li> <li>Sodium chloride</li> </ul>

\* As of March 1, 2021, mRNA COVID-19 vaccines are the only vaccines in the United States that contain PEG, though several vaccines contain polysorbate (more information can be found in CDC's [vaccine excipient summary](#)).

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