

Appendix A: Pfizer-BioNTech COVID-19 Vaccine

5/14/2021

Read the full provider guide: [Interim COVID-19 Vaccine Provider Guide \(www.health.state.mn.us/diseases/coronavirus/vaccine/guide.pdf\)](http://www.health.state.mn.us/diseases/coronavirus/vaccine/guide.pdf).

Summary of Pfizer COVID-19 vaccine

Age indication	Dose/route	Schedule	Presentation/preparation	Storage and handling	Notes
12 years and older	0.3 mL IM	0, 21 days	Multi-dose: 6 doses per vial* Reconstitute with diluent; diluent ships separately from vaccine. No preservative.	<p>Ultra-cold freezer (-80°C to -60°C/-112°F to -76°F): until expiration date.</p> <p>Thermal shipper: (-90°C to -60°C/-130°F to -76°F): up to 30 days from delivery, if replenished with dry ice upon receipt and every five days.</p> <p>Freezer: (-25°C to -15°C/-13°F to 5°F): up to two weeks.</p> <p>Refrigerator**(2°C to 8°C/36°F to 46°F): up to 120 hours (five days). If not used, discard.</p> <p>Room temperature**: Thawed vials must be reconstituted within two hours.</p>	<p>Not interchangeable with other COVID-19 vaccines.</p> <p>Use vaccine within six hours once vial is punctured.</p> <p>Cannot place thawed vaccine back in freezer.</p>

*The Pfizer-BioNTech COVID-19 vaccine multi-dose contains six 0.3 milliliter (mL) doses. See the vaccine preparation section for more information.

**Once reconstituted, must use within six hours (discard unused vaccine).

Shipping

Ultra-cold vaccine will be shipped from the manufacturer in thermal shippers packed with dry ice. In addition to vaccine, each site will receive ancillary kits and an initial dry ice resupply. If you need additional ancillary supplies, email health.mdhvaccine@state.mn.us. Each shipper will have a GPS-

enabled temperature monitoring device (logger) that the manufacturer uses to track the vaccine and monitor for out-of-range temperatures.

- The thermal shipping container has about 20 kilograms (44 pounds) of dry ice and is estimated to weigh about 30.4 kilograms (67 pounds). It is not recommended to transport vaccine in the shipping container to alternate sites.
- The shipping container must be returned to the manufacturer after 30 days, along with the temperature monitoring device. A preprinted shipping label is in the shipper. For assistance with returns, contact 1-701-540-4039.

Upon thermal shipper arrival:

- Work in a well-ventilated area before opening the shipper and when working with dry ice.
- Never handle dry ice with bare hands. Wear waterproof insulated (cryogenic) gloves and safety glasses with side shields or safety goggles to remove the dry ice pod from the shipper.
 - Review the Dry Ice Safety Data Sheet included with the shipper. Read more on dry ice safety at [CDC: Pfizer-BioNTech COVID-19 Vaccine \(www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html).
 - Dry ice disposal: Once you are done with the shipper, open the container and leave it at room temperature in a well-ventilated area where the dry ice will change from a solid to a gas.
 - **Do not** leave dry ice in an unattended area.
 - **Do not** place dry ice in a drain or flush down a toilet.
 - **Do not** place dry ice in a closed area.
- Open and unpack the shipper, following manufacturer's instructions.
 - **CAUTION:** During the unpacking process, you may feel resistance when trying to remove the box that holds the vial trays. Do not apply force to remove the box. Use the two bands wrapped around each vial tray to remove the trays from the thermal shipping container.
 - Press and hold the stop button for five seconds on the temperature monitoring device. Once the LED indicator light turns green, unpack the vaccine.
- Inspect the vaccine shipment upon receiving it. Confirm the quantity and that vials are not broken. Protect vials from light until ready to use.
- If you have an ultra-cold temperature freezer available, transfer closed-lid vial trays (containing 195 vials) from the shipper to the unit. These trays may be at room temperature (less than 25 degrees Celsius/77 degrees Fahrenheit) **for up to five minutes** for transfer between ultra-cold temperature environments.
 - Open-lid vial trays or vial trays that contain less than 195 vials removed from ultra-cold storage (less than -60 degrees Celsius/-76 degrees Fahrenheit) may be at room temperature (less than 25 degrees Celsius/77 degrees Fahrenheit) **for up to three minutes** for transfer between ultra-cold temperature environments.

- After vial trays are returned to ultra-cold storage following exposure to room temperature (of no more than three minutes), **they must remain in ultra-cold storage for at least two hours** before they can be removed again.
- Once vaccine is moved out of the shipper into an ultra-cold temperature freezer, the temperature monitoring device from the shipper cannot be used in the ultra-cold freezer. Remember to deactivate the device. A digital data logger (or other appropriate monitoring method) should be used.

Large quantity orders (for larger provider sites only)

- Minimum order: 1,170 doses.
- Maximum order: about 5,850 doses.

Vaccine storage options

Storing and handling ultra-cold COVID-19 vaccine correctly is very important. If the cold chain is not properly maintained, vaccine may be damaged and unusable. There are four acceptable vaccine handling timelines to ensure viable vaccine.

- **Ultra-cold temperature freezer storage:** Place vaccine in an ultra-cold temperature freezer where it is stable at -80 to -60 degrees Celsius (-112 to -76 degrees Fahrenheit) until expiration.
- **Ultra-cold temperatures in the shipper:** If using the thermal shipper for temporary vaccine storage, for up to 30 days, refer to the manufacturer instructions. Review Pfizer-BioNTech vaccine thermal shipper materials at [Pfizer: Vaccination Storage & Dry Ice Safety Handling \(www.cvdvaccine-us.com/product-storage-and-dry-ice\)](http://www.cvdvaccine-us.com/product-storage-and-dry-ice).
 - Maximize use of the thermal shipping container by re-icing with dry ice within 24 hours of receiving the ultra-cold vaccine. The first dry ice recharge will come with the shipper unless you have an ultra-cold freezer. Re-ice at a minimum of every five days (based on normal use) making sure dry ice is consistently refilled to the top of the container. Vaccine in the shipper should be stored at -90 to -60 degrees Celsius (-130 to -76 degrees Fahrenheit). Storage within this temperature range is not considered an excursion from the recommended storage condition.
 - If you are using the shipping container as temporary storage, refer to the re-icing guidelines packed in the original thermal container for instructions. You cannot open the shipping container more than twice per day, and for no longer than three minutes each time. If the shipper is left open longer than three minutes, the recommendation is to re-ice more frequently, as needed. You are required to keep a log of when the shipping container is opened.
 - If your site does not have a standard way to access dry ice, email Health.R-LSC@state.mn.us. You will need to provide at least 48 hours' notice for delivery. Please provide the following information:

- Name of facility
 - Shipping address
 - Amount of dry ice needed
 - Date needed (at least 48 hours' notice required)
 - Point of contact (POC) name, phone number, and email
- **Vaccine freezer storage:** Upon receiving the shipper, unpack the vaccine and place in a freezer that is maintaining temperatures at -25 to -15 degrees Celsius (-13 to 5 degrees Fahrenheit) for up to two weeks (14 days); cumulative time at this temperature must be tracked. The vaccine may be returned **one time** to ultra-cold temperatures. The vaccine can be moved to the refrigerator anytime within 14 days and used within five days (120 hours). Do not refreeze. Vaccine storage with this option would be up to 14 days at freezer temperatures, plus 5 days in the refrigerator (up to 19 days total). Discard vaccine if not used within storage timelines.
 - **Refrigerator storage:** Immediately place vaccine in the refrigerator at 2 to 8 degrees Celsius (36 to 46 degrees Fahrenheit). Vaccine can be stored for no more than five days, or 120 hours total. Discard vaccine if not used within storage timelines.

Redistribution

If you redistribute COVID-19 vaccine, you must sign a redistribution agreement. **Sites must strictly follow the components of the agreement during redistribution and off-site vaccination.** Learn more at [COVID-19 Vaccine: Redistribution and Off-site Vaccination Guide \(www.health.state.mn.us/diseases/coronavirus/vaccine/vaxredistribution.pdf\)](http://www.health.state.mn.us/diseases/coronavirus/vaccine/vaxredistribution.pdf). For information on transporting COVID-19 vaccine, refer to [Transporting COVID-19 Vaccines \(www.health.state.mn.us/diseases/coronavirus/vaccine/transport.pdf\)](http://www.health.state.mn.us/diseases/coronavirus/vaccine/transport.pdf).

Temperature monitoring and documentation

When storing Pfizer-BioNTech vaccine in an ultra-cold storage unit, monitor the vaccine using a continuous temperature monitoring device that can read ultra-cold temperatures.

If you are using the thermal shipper, you must use a continuous temperature monitoring device to ensure the temperature in the thermal shipping container is stable. If you do not have an on-site monitor, reactivate and use the Controlant real-time monitor that came with the thermal shipper by contacting Controlant customer service at 701-540-4039.

For all other storage situations, use a continuous temperature monitoring device (e.g., digital data logger) to monitor vaccine. Learn more at [COVID-19 Vaccine Temperature Monitoring Devices \(www.health.state.mn.us/diseases/coronavirus/vaccine/devices.pdf\)](http://www.health.state.mn.us/diseases/coronavirus/vaccine/devices.pdf). Remember to deactivate the Controlant real-time monitor from the shipper.

At the start of each workday:

- Document minimum (lowest) and maximum (highest) temperature in storage unit
- Record date, time, and staff name or initials
- Document electronically or on a paper log (keep temperature documentation for three years)
 - CDC has temperature logs available to download at [Pfizer-BioNTech COVID-19 Vaccine \(www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html).

If the temperature goes out of range, take action immediately. Do not use the vaccine until the manufacturer is contacted about the viability of the vaccine. Refer to the Managing out-of-range temperatures (excursions) section in the provider guide.

Vaccine recommendations for Pfizer-BioNTech COVID-19 vaccine

- Pfizer BioNTech COVID-19 vaccine is a two-dose series administered three weeks apart (days 0 and 21).
 - Every attempt should be made to schedule the person to return on day 21 or shortly thereafter for their second dose. Schedule the appointment for the second dose when the person receives their first dose.
 - People should not be scheduled for their second dose earlier than recommended. There is a four-day grace period for the second dose (i.e., day 17-21) during which the dose will be considered valid. Administering the second dose early should not be a routine practice. If vaccine administration occurs before day 17, complete a Vaccine Adverse Event Reporting System (VAERS) report.
 - If it is not feasible to adhere to the recommended interval and a delay in vaccination is unavoidable, the second dose of Pfizer COVID-19 vaccine should be administered at the earliest opportunity. The second dose may be administered up to six weeks (42 days) after the first dose. Currently, only limited data are available on efficacy of mRNA COVID-19 vaccines administered beyond this window.
 - CDC does not recommend restarting the series or giving additional doses if the interval is greater than six weeks.
- Pfizer-BioNTech vaccine is not interchangeable with other COVID-19 vaccine products.
 - If two doses of different mRNA COVID-19 products are inadvertently administered, no other additional doses of either vaccine is recommended at this time.
- Coadministration of COVID-19 vaccines and other vaccines: *Awaiting CDC/ACIP's written guidance found in an upcoming [CDC Morbidity and Mortality Weekly Report \(MMWR\) \(www.cdc.gov/mmwr/Novel_Coronavirus_Reports.html\)](https://www.cdc.gov/mmwr/Novel_Coronavirus_Reports.html) and the CDC Interim Clinical Considerations.*

Find the full listing of **vaccine recommendations** at [CDC: Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Authorized in the United States \(www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html).

Contraindications and precautions

CDC considers a history of the following to be a contraindication to vaccination with COVID-19 vaccines:

- Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of the COVID-19 vaccine.
- Immediate allergic reaction of any severity to a previous dose or known (diagnosed) allergy to a component of the vaccine (an immediate allergic reaction to a vaccine or medication is defined as any hypersensitivity-related signs or symptoms such as urticaria; angioedema; respiratory distress (e.g., wheezing, stridor); or anaphylaxis that occur within four hours following administration.)

The full listing of **contraindications** and **precautions** are at [CDC: Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Authorized in the United States: Contraindications and precautions \(www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html#Contraindications\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html#Contraindications).

Ingredient listing for Pfizer-BioNTech BNT162b2 COVID-19 Vaccine

Each dose of the Pfizer-BioNTech BNT162b2 COVID-19 vaccine includes the following ingredients:

- Lipids (0.43 mg (4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate)
- 0.05 mg 2[(polyethylene glycol)-2000]- N,N-ditetradecylacetamide
- 0.09 mg 1,2-distearoyl-sn-glycero-3-phosphocholine, and 0.2 mg cholesterol)
 - 0.01 mg potassium chloride
 - 0.01 mg monobasic potassium phosphate
- 0.36 mg sodium chloride
- 0.07 mg dibasic sodium phosphate dihydrate
- 6 mg sucrose

More information:

- Diluent: 0.9% sodium chloride injection, USP.
- The Pfizer-BioNTech COVID-19 vaccine does not contain preservative.
- The vial stoppers are not made with natural rubber latex.

Taken from the full Emergency Use Authorization (EUA) prescribing information Pfizer-BioNTech COVID-19 vaccine found in [Pfizer-BioNTech COVID-19 Vaccine EUA Fact Sheet for Healthcare Providers \(www.fda.gov/media/144413/download\)](https://www.fda.gov/media/144413/download).

Appropriate medical treatment used to manage immediate allergic reactions (e.g., epinephrine) must be immediately available in the event an acute anaphylactic reaction occurs following administration of the vaccine.

Warnings

Immunocompromised people, including those receiving immunosuppressive therapy, may have a diminished response to Pfizer-BioNTech COVID-19 vaccine. The Pfizer-BioNTech COVID-19 vaccine may not protect all vaccine recipients.

Syncope (fainting) may occur in association with administration of injectable vaccines, particularly in adolescents. Procedures should be in place to avoid injury from fainting.

Adverse reactions (side effects)

Adverse reactions following the Pfizer-BioNTech COVID-19 vaccine that have been reported in clinical trials include injection site pain, redness and/or swelling; fatigue (tired); headache; muscle pain; chills; joint pain; fever; nausea; malaise; and lymphadenopathy (swollen glands).

Severe allergic reactions, including anaphylaxis and other hypersensitivity reactions (e.g., rash, pruritis, urticaria, angioedema), diarrhea, vomiting, and pain in extremity (arm) have been reported following administration of the Pfizer-BioNTech COVID-19 vaccine outside of clinical trials. Additional adverse reactions, some of which may be serious, may become apparent with more widespread use of the Pfizer-BioNTech COVID-19 vaccine.

This information is taken from the full Emergency Use Authorization (EUA) prescribing information for Pfizer-BioNTech COVID-19 vaccine, found in [Pfizer-BioNTech COVID-19 Vaccine EUA Fact Sheet for Healthcare Providers \(www.fda.gov/media/144413/download\)](https://www.fda.gov/media/144413/download).

Vaccine preparation

Overview

- Each multi-dose vial must be reconstituted with 1.8 milliliters of 0.9% sodium chloride injection (normal saline) before using. Use the diluent that is provided.
- After reconstitution, each **preservative-free** multi-dose vial has enough volume for six 30 microgram doses, in 0.3 milliliter injections.
- Administer the vaccine via an intramuscular route.
- All doses in a multi-dose vial must be administered within six hours of reconstitution. **Discard any unused vaccine six hours after reconstitution.**

Thawing vials

It is important to plan how to thaw your vials and administer vaccine to avoid wasting vaccine. Before taking vaccine out of the ultra-cold temperature storage unit or thermal shipper, ensure you will have the correct quantities to vaccinate your population. Once the ultra-cold vaccine is removed from ultra-cold temperature storage (either to the refrigerator or to room temperature), it must be used within a certain amount of time and cannot be returned to ultra-cold storage or the thermal shipper once thawed. Follow these instructions:

- Plan your day: You need one multi-dose vial for every six people. Plan to have several people on standby to be vaccinated in case you have no-shows.
- When removing a tray from the thermal shipper, remember to minimize the time the shipper is open. It can be opened only twice a day, for no more than three minutes at a time.
 - If less than a full tray is needed, remove the number of vials needed from the tray as quickly as possible and return the tray to frozen storage.
 - Trays should not be exposed to room temperature for more than a few minutes, as the vials can thaw very quickly.
- Thawed or reconstituted vaccine can be handled in normal room light. Avoid exposure to direct sunlight or ultraviolet light.
- Gloves allowing manual dexterity should be worn while handling frozen vials (i.e., unsterile gloves in the correct size). It is not necessary to use insulated (cryogenic) gloves to handle vials.

Thawing methods for Pfizer-BioNTech COVID-19 vaccine:

- Transfer frozen vials immediately to a refrigerator at 2 to 8 degrees Celsius (36 to 46 degrees Fahrenheit). An entire tray will take about three hours to thaw; a smaller number of vials may thaw more quickly.
 - Vials may be stored in the refrigerator prior to reconstitution (dilution) for up to 120 hours (five days). If the vaccine is not used within five days, it must be discarded.
- Vials needed for immediate use can be removed directly from frozen storage and thawed at room temperature (up to 25 degrees Celsius or 77 degrees Fahrenheit) for 30 minutes prior to reconstitution.
- Using either thawing method, vials must reach room temperature before reconstitution and must be reconstituted within two hours. Do not place thawed vaccine back into an ultra-cold temperature storage unit, a freezer unit, or the thermal shipper.

Diluent

As with other vaccines that require reconstitution, this vaccine must use only the diluent specified by the manufacturer. Diluent will be provided in the mixing kit (along with syringes, needles, and other needed supplies). Store diluent at room temperature.

Reconstitute each thawed vial with exactly 1.8 milliliters of 0.9% Sodium Chloride Injection, USP.

- DO NOT use bacteriostatic normal saline or any other diluents.
- DO NOT use or save the remaining vaccine diluent to mix additional vaccine or for other uses.
- The optimal diluent vial size is 2 milliliters of 0.9% sodium chloride injection.
 - **IMPORTANT:** If using a larger volume single-use vial of 0.9% sodium chloride injection, you can use it only once for reconstitution (i.e., after removing 1.8 milliliters, discard remaining diluent).

Reconstitution steps

When reconstituting vaccine, use an aseptic technique to prevent contamination (e.g., hand hygiene, etc.). On-site reconstitution is required. Reconstitute vaccine just prior to administration.

To reconstitute thawed Pfizer-BioNTech vaccine:

- Invert the vial gently 10 times to mix. Do not shake!
- Clean the top of the 0.9% sodium chloride vial with a single-use alcohol swab.
- Draw up 1.8 milliliters of diluent with a 3 milliliter or 5 milliliter syringe using a 21 gauge or narrower needle.
- Clean the top of the thawed Pfizer BioNTech vaccine vial with a single-use alcohol swab.
- Add 1.8 milliliters of 0.9% sodium chloride into the vaccine vial.

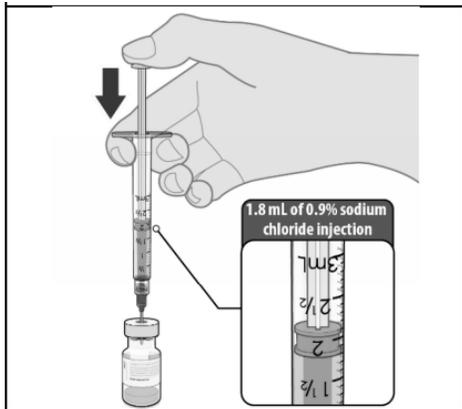


Photo from Pfizer-BioNTech

APPENDIX A: PFIZER-BIONTECH COVID-19 VACCINE

- Before removing the needle from the vial, equalize pressure in the vial by withdrawing 1.8 milliliters of air into the empty diluent syringe.

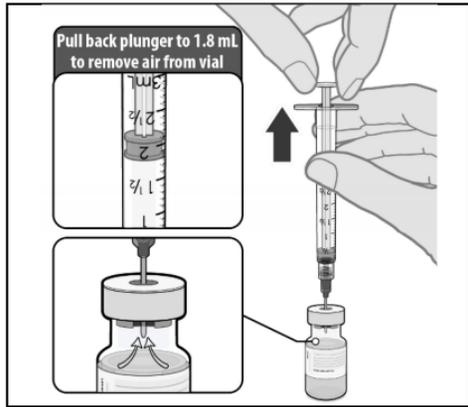


Photo from Pfizer-BioNTech

- Remove needle/syringe from the vial, invert the vial, and gently mix 10 times. Do not shake! Vaccine will be an off-white suspension. There should be no particulates or discoloration.

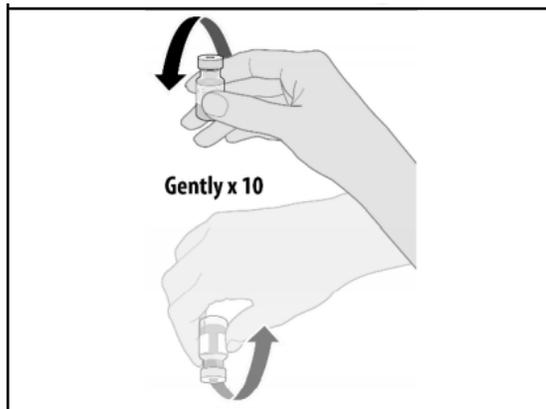


Photo from Pfizer-BioNTech

- Record date and time of reconstitution on the Pfizer-BioNTech COVID-19 vaccine label.

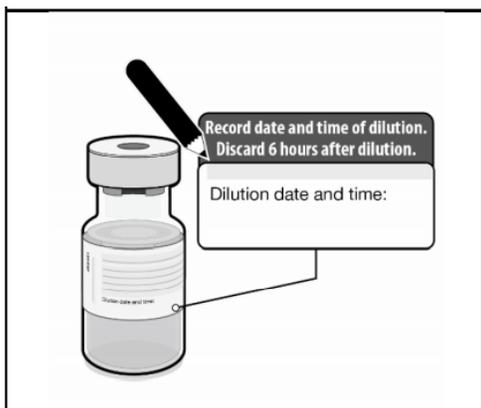


Photo from Pfizer-BioNTech

- Store reconstituted vaccine at 2 to 25 degrees Celsius (35 to 77 degrees Fahrenheit) and use within six hours.
- **Once the multi-dose vial has been reconstituted, you must discard it after six hours, even if all doses have not been administered.**

- Important: Administering this vaccine after six hours of being reconstituted may cause harm, as it poses a risk of bacterial infection.

Preparing individual doses

Follow strict aseptic technique when preparing the vaccine dose for administration.

- Gather ancillary kit supplies. Use low dead-volume syringes and/or needles to withdraw six doses.
- If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial. If only five doses are obtained, report one dose as wastage. If sufficient quantities of low dead-volume syringes are not available, withdraw vaccine using a combination of low dead-volume syringes and non-low dead-volume (standard) syringes (e.g., three low dead-volume syringes and three non-low dead-volume syringes).
- Refer to [Pfizer-BioNTech COVID-19 Vaccine: Vaccine Preparation \(www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/diluent-poster.pdf\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/diluent-poster.pdf) for “do’s and don’ts” when mixing vaccine and withdrawing six doses of vaccine from the vial.
- Using aseptic technique, cleanse the vial stopper with a single-use antiseptic swab, and withdraw 0.3 mL of the Pfizer-BioNTech COVID-19 Vaccine preferentially using a low dead-volume syringe and/or needle.

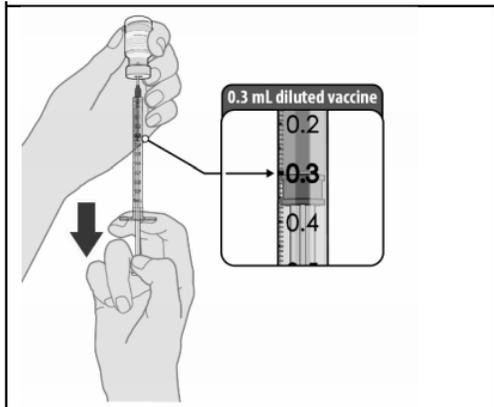


Photo from Pfizer-BioNTech

- When withdrawing additional doses from the same vial, clean the vial stopper each time with a new single-use sterile alcohol swab. Insert the needle into a different place on the vial stopper. Do NOT use the same insertion point every time or the vial may leak.
- Since there is no preservative in the Pfizer-BioNTech multi-dose vial, discard the vial when there is not enough vaccine to obtain a complete dose. Do **not** "pool" or combine residual vaccine from multiple vials to obtain a dose.

Administration

Follow strict aseptic technique when administering vaccine.

- Before administering the vaccine, inspect each dose in the dosing syringe. Reconstituted vaccine will be in an off-white suspension.
 - Verify final dosing volume of 0.3 milliliters.
 - Confirm the vaccine in the syringe has no particulates and is not discolored.
- Administer immediately.

Do not miss an opportunity to vaccinate

Ensuring that everyone has an opportunity to receive vaccine should be balanced with vaccine wastage. Use these strategies to minimize wastage, but do not miss an opportunity to vaccinate someone, even if that means not every dose in a vial can be used.

- Store your vaccine at the temperature with the longest expiration time possible until you need it.
- In a clinic setting, look ahead at your schedule and the patients' records and/or MIIC to assess the need for COVID-19 vaccine. This will help anticipate how much vaccine will need to be used on a daily or weekly basis.
- Do not reconstitute vials in advance, to avoid wasting vaccine. Once you have punctured the vial:
 - Make a plan to administer all the doses in the vial.
 - Consider having a waiting list.
 - Be aware of people who may be able to come at short notice to get vaccinated.
 - All the doses must be administered within 6 hours, or they must be discarded.
- Do not open another vial until you have used all the doses in the current vial.
- Keep multi-dose, labeled vials in a central location, so multiple vaccinators have access to the same vial to increase the likelihood of all doses being used.

Resources

- CDC: [Interim Considerations: Preparing for the Potential Management of Anaphylaxis at COVID-19 Vaccination Sites \(www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/anaphylaxis-management.html\)](https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/anaphylaxis-management.html)
- Morbidity and Mortality Weekly Report: [The Advisory Committee on Immunization Practices' Interim Recommendation for Use of Pfizer-BioNTech COVID-19 Vaccine — United States, December 2020 \(www.cdc.gov/mmwr/volumes/69/wr/mm6950e2.htm?s_cid=mm6950e2_w\)](https://www.cdc.gov/mmwr/volumes/69/wr/mm6950e2.htm?s_cid=mm6950e2_w)

- Pfizer: [Pfizer-BioNTech COVID-19 Vaccine Resources \(www.cvdvaccine-us.com/resources\)](http://www.cvdvaccine-us.com/resources)
 - Vaccine preparation and administration, storage and handling, and not giving within 14 days of another vaccine.
 - EUA Fact Sheet for Healthcare Providers; EUA Fact Sheet for Recipients and Caregivers.
 - Contact information:
 - Medical information: PfizerMedicalInformation.com, 1-800-438-1985.
 - General product inquiries: 1-877-829-2619.
 - Shipment support, U.S. Trade Customer Service: 1-800-666-7248 (option 8) for vaccine viability questions, or email CVGovernment@Pfizer.com.
- CDC: [Pfizer-BioNTech COVID-19 Vaccine \(www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html\)](http://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html)
 - Pfizer beyond use date (BUD) guidance and labels, and storage and handling summary and labels.
 - Temperature logs (Celsius or Fahrenheit): Ultra-cold, refrigerator.
 - EUA Fact Sheet for Healthcare Providers; EUA Fact Sheet for Recipients and Caregivers.
- [Immunization Courses: Webcasts and Self Study \(www.cdc.gov/vaccines/ed/courses.html\)](http://www.cdc.gov/vaccines/ed/courses.html)
 - Course: Pfizer-BioNTech COVID-19 Vaccine: What Healthcare Professionals Need to Know.
- [CDC: Interim Clinical Considerations for Use of mRNA COVID-19 Vaccines Currently Authorized in the United States \(www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html\)](http://www.cdc.gov/vaccines/covid-19/info-by-product/clinical-considerations.html)
- Vaccine protocol template: [COVID-19 Pfizer-BioNTech BNT162b2 Vaccine \(www.health.state.mn.us/people/immunize/hcp/protocols/covidpfizer.docx\)](http://www.health.state.mn.us/people/immunize/hcp/protocols/covidpfizer.docx)



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