




COVID-19 Vaccine Storage and Handling

June 3, 2021

Housekeeping

- **How to Ask Questions**

- Click on the  icon found at the bottom part of your screen
- A box will open where you can type in questions, comments, indicate sound problems, etc.
- Use this throughout the webinar to ask questions

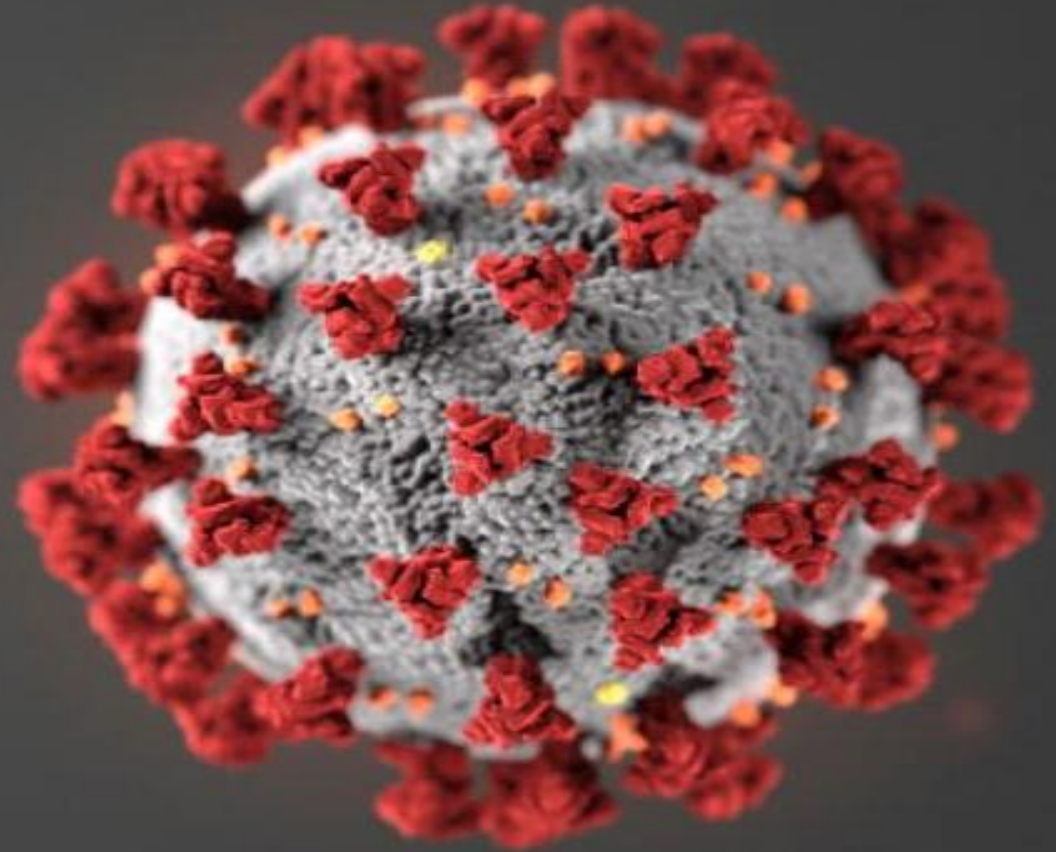
- **Slides & Recording**

- This webinar is being recorded and a link as well as slides will be emailed out through our listserv as well as posted on our website at: www.michigan.gov/COVIDvaccineprovider

Topics Covered

- Storage Equipment
- Pfizer Storage and Handling
- Moderna Storage and Handling
- Janssen (Johnson and Johnson) Storage and Handling
- Additional Q & A
- Resources

COVID-19 Vaccine Storage Equipment



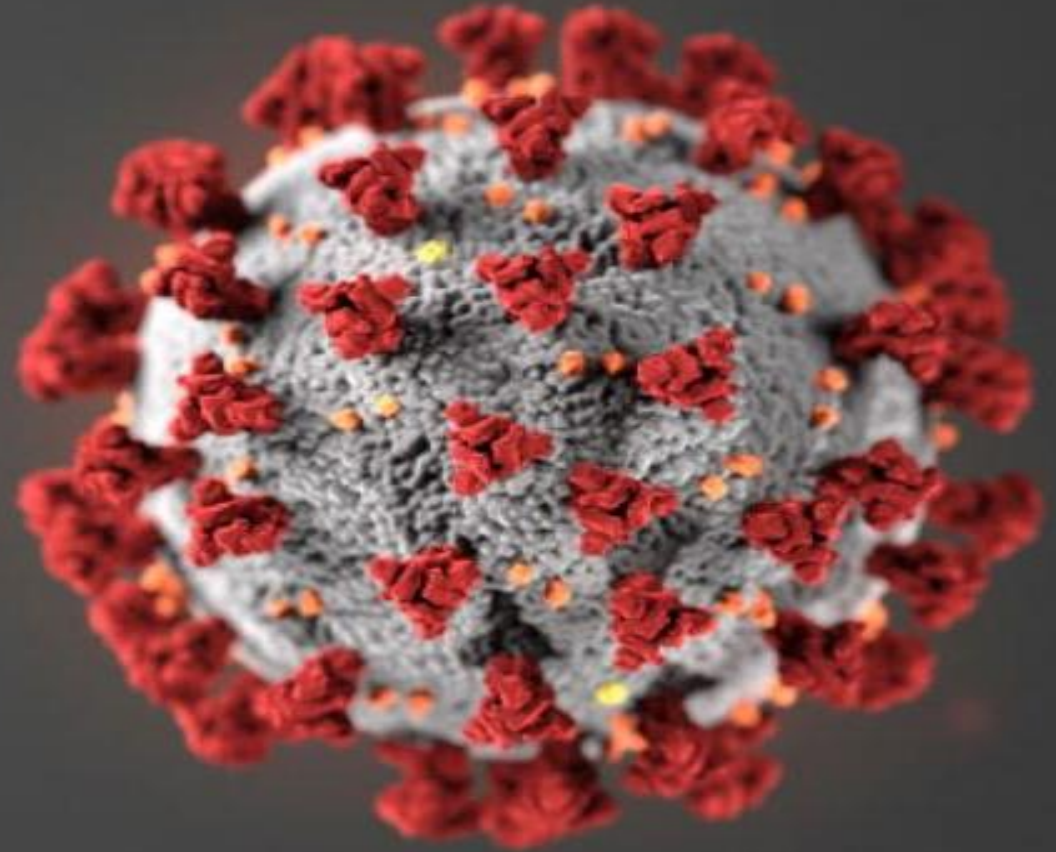
COVID-19 Vaccine Storage Equipment

Ensure storage equipment meets CDC requirements

- Preferred: Use purpose-built or “pharmaceutical-grade” units because they are built to store biologics, including vaccines. These units can be compact, under-the-counter style or large
 - Household-grade units can be an acceptable alternative if temperatures for vaccine storage can be maintained. However, do not use the freezer compartment of these units. If your facility provides frozen vaccine, a separate stand-alone freezer unit is necessary
- Ultra-cold note: Keep in mind that most standard freezer units do not meet ultra-cold freezer temperatures between -60° C and -80° C (-76° F and -112° F)
- Do not use a dormitory-style or bar-style storage unit under any circumstances
- Utilize digital data loggers (DDLs) for continuous temperature monitoring on all units, including transport

<https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-handling-toolkit.pdf>

Pfizer-BioNTech COVID-19 Vaccine Storage & Handling



Pfizer-BioNTech Storage Temperature

Before Puncture	After Puncture
Between -80°C and -60°C (-112°F and -76°F) until the expiration date	2°C to 25°C (36°F to 77°F) for up to 6 hours *Discard any unused vaccine after 6 hours
Between -25°C and -15°C (-13°F and 5°F) for up to 2 weeks	
Between 2°C and 8°C (36°F and 46°F) for up to 1 month (31 days)	

Multidose Vial: 6 doses

Diluent: 0.9% sodium chloride (preservative free, normal saline) provided in the ancillary kit. Do NOT use any other diluent

Pfizer-BioNTech **Transport** Storage Temperature

Before Puncture	After Puncture
Between -80°C and -60°C (-112°F and -76°F)	2°C to 25°C (36°F to 77°F) for up to 6 hours. *Discard any unused vaccine after 6 hours
Between -25°C and -15°C (-13°F and 5°F)	
Between 2°C and 8°C (36°F and 46°F)	

CDC recommends transporting vaccine at refrigerated or frozen temperatures

Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Transporting Vaccine for Vaccination Clinics Held at Satellite, Temporary, or Off-Site Location <https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html>


YES! After the two-week time frame, you have two options:

- You may transfer vaccine to refrigerated storage between 2°C and 8°C (36°F and 46°F) for up to 1 month (31 days)
- You may return vaccine **one time** to ultra-cold temperature storage between -80°C and -60°C (-112°F and -76°F)
 - Once returned to ultra-cold storage, the 2-week time frame is suspended

After vaccine has been stored at frozen temperature for 2 weeks, can it be stored at refrigerated temperatures for an additional 31 days?

Pfizer-BioNTech Storage and Handling Summary Handout

Pfizer-BioNTech COVID-19 Vaccine Storage and Handling Summary



Thermal Shipping Container

CDC recommends providers consider significant support to store vaccine procedures for regular maintenance. Use the Controlant temperature monitoring included with the thermal shipping container to monitor the temperature.

- Review contact information.
- If the contact for your order will NOT be notified in the event of an excursion. Contact your jurisdiction's guidance for proper program for assistance.
- If your contact is valid and you cannot load email hyperlinks for troubleshooting (https://onsitemonitoring).
- Identify up to 4 contacts to rely on the container's temperature.
- Review **DAILY** e-mails on the system.
- Click the link in daily e-mails to all temperature data. Save the temperature data for at least 30 days.

Ultra-Cold Freezer

Before mixing, the vaccine may be stored at -80°C and -60°C (-112°F and -76°F).

- Store vaccine vials upright in the container or box.
- Protect from light.
- Vaccine may be stored until the expiration date.

Freezer

Before mixing, the vaccine may be stored in a freezer that replaces the manufacturer's expiration date by 2 weeks.

- These temperatures are within the routinely recommended vaccine storage range for this vaccine is tighter.
- If storing the vaccine in a freezer, carefully adjust the freezer to the correct temperature range for storage.
- Use CDC's freezer storage temperature monitoring to document storage unit temperatures.
- Monitor how long the vaccine is stored using CDC's beyond-use date for COVID-19 vaccine.

*Dry ice will not be provided for Pfizer 450.

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Pfizer-BioNTech COVID-19 Vaccine Storage and Handling Summary

Refrigerator

Before mixing, the vaccine may be stored in a refrigerator for up to 31 days, contact the manufacturer's jurisdiction's guidance for proper storage.

- Monitor how long the vaccine is stored in the refrigerator using CDC's beyond-use date for Pfizer-BioNTech COVID-19 vaccine.
- Vaccine can be ordered in 2 amounts:

Temperature Monitoring

Ultra-cold freezer, freezer, refrigerator beginning of the workday to determine temperature monitoring, use a thermometer.

- Ultra-cold temperatures: Use a thermometer to measure ultra-cold temperatures.

Check and record the temperature.

- Option 1 (preferred): Min/Max (Min/Max) Temperature** Most DDLs display min/max temperatures.

Thermal Shipping Container:

container to monitor the temperature.

Diluent

0.9% sodium chloride (normal saline) guidance for storing the diluent.

Mixed Vaccine

- Once mixed, vaccine can be stored at 2°C to 25°C (35°F to 77°F) for up to 6 hours.
- Discard any remaining vaccine.

Disposal

Once vaccine has reached its expiration date, if instructed to dispose of vaccine, follow your local and state regulations (awardee-imz-websites.html) for disposal.

- Do NOT return vaccine in the container.

CDC's Pfizer-BioNTech COVID-19 Vaccine Storage and Handling Summary
CDC's Pfizer Beyond-Use Date (BUD) for COVID-19 Vaccine
CDC's Delivery Checklist
CDC's Freezer and Refrigerator Storage and Handling Summary

For additional information, visit <https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/storage-summary.pdf>

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Pfizer-BioNTech COVID-19 Vaccine Storage and Handling Summary

Basics

- Store vaccine in an ultra-cold freezer, thermal shipping container, freezer, or refrigerator. See guidance below for each storage unit.
- Follow the manufacturer's instructions for returning the thermal shipping container.
- Check and record storage unit temperatures each workday. See guidance below for each type of storage unit. Save storage records for 3 years, unless your jurisdiction requires a longer time period.

Deliveries

Vaccine

Use CDC's Delivery Checklist for Pfizer-BioNTech Vaccine when accepting a delivery and unpacking vaccine. When vaccine is delivered:

- Open the thermal shipping container. Press the stop shipment button on the temperature monitoring device for 5 seconds.
- The LED indicator light will change to a solid color and a temperature status report will be e-mailed to the person who ordered the vaccine.
- Proceed based on the color of the LED indicator light:
No color or red: Wait for the status report.
Green: Unpack the vaccine.
- Follow the manufacturer's guidance for unpacking the vaccine. Inspect the trays.
 - Do not open the vial trays or remove vials until ready to thaw/use the vaccine.
 - If storing the vaccine at ultra-cold temperatures, return vaccine to frozen storage within 5 minutes.
- If not using the thermal shipping container to store vaccine, return the thermal shipping container per the manufacturer's instructions.
 - Ensure ALL the vaccine has been removed before returning the container.

Dry Ice Safety

- Dry ice is needed to maintain proper temperatures in the thermal shipping container.
- Ensure staff has proper PPE and is trained to handle dry ice safely.
- Do not use or store dry ice in confined areas, walk-in refrigerators, environmental chambers, or rooms without ventilation. A leak in such an area could cause a depletion of oxygen in the atmosphere, which may lead to asphyxiation.

Ancillary Supply Kit

An ancillary supply kit will be delivered separately from the vaccine and includes:

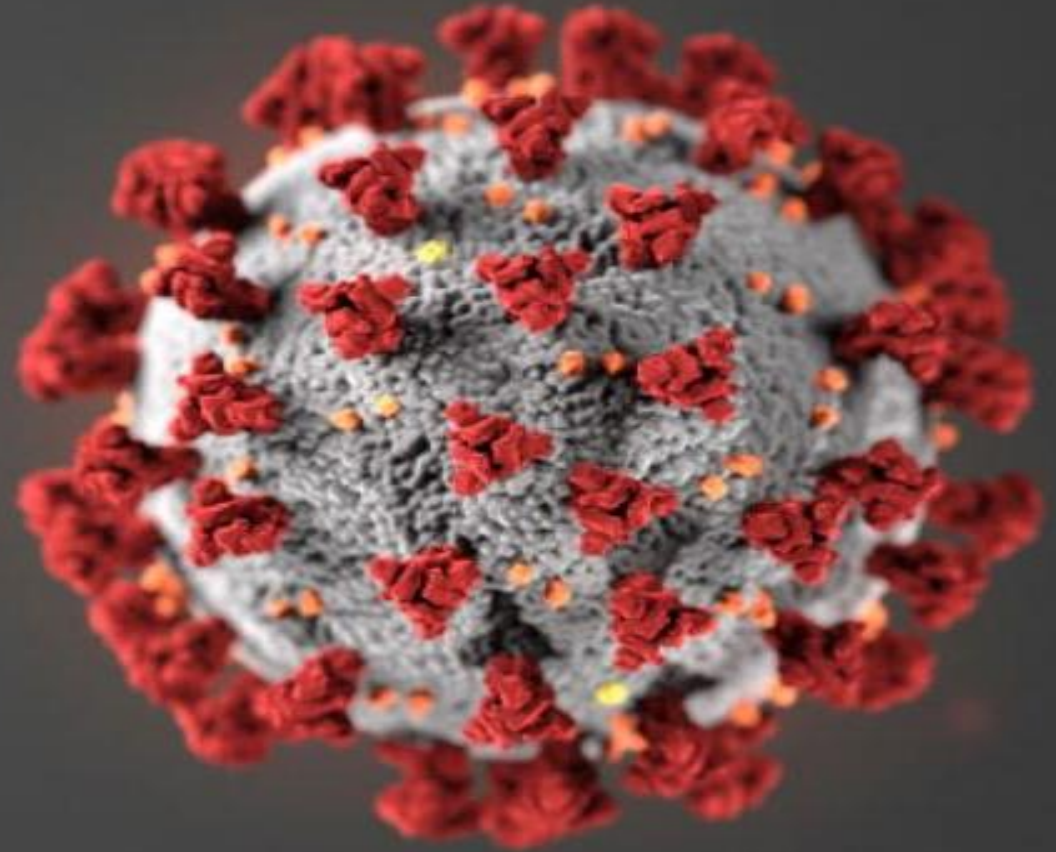
- Mixing supplies:** Diluent, needles, syringes, and sterile alcohol prep pads
 - Mixing supplies are packaged separately with a green identification label.
 - Do NOT use mixing supplies to administer vaccine.
- Administration supplies:** Needles, syringes, sterile alcohol prep pads, vaccination record cards, and some PPE.
 - Ancillary supply kits have been reconfigured to support the number of doses ordered.

1

- Basics
- Deliveries
- Dry Ice Safety
- Ancillary Supply Kit
- Thermal Shipping Container
- Ultra-Cold Freezer
- Freezer Storage
- Refrigerator Storage
- Temperature Monitoring
- Diluent
- Disposal

<https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/storage-summary.pdf>

Moderna COVID-19 Vaccine Storage and Handling



Moderna Storage Temperature

Before Puncture	After Puncture
Between -50°C and -15°C (-58°F and 5°F) until the expiration date	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 8°C (36°F and 46°F) for up to 30 days	
Between 8°C and 25°C (46° and 77°F) for a total of 24 hours	

Multidose Vial: Maximum of 11 doses or 15 doses (depending on presentation)

Diluent: None


Moderna **Transport** Storage Temperature


Before Puncture	After Puncture
Between -50°C and -15°C (-58°F and 5°F)	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 8°C (36°F and 46°F) for up to 12 cumulative hours	


CDC recommends transporting vaccine at refrigerated or frozen temperatures

Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Transporting Vaccine for Vaccination Clinics Held at Satellite, Temporary, or Off-Site Location <https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html>

Moderna Vaccine Transport Resources

Moderna COVID-19 Vaccine	
Store vaccine between 2°C and 8°C (36°F and 46°F) for up to 30 days.	
Lot number(s): _____	
Today's date: ____/____/____ USE BY* Date: ____/____/____	
*After this date/time, do NOT use. Contact the manufacturer for guidance. If directed to discard the vaccine, follow the manufacturer's and your jurisdiction's guidance on proper disposal.	
Vaccine may be transported for 12 cumulative hours.	
Transport date	
Time in transport:	
Time remaining:	
Name:	

Moderna COVID-19 Vaccine	
Store vaccine between 2°C and 8°C (36°F and 46°F) for up to 30 days.	
Lot number(s): _____	
Today's date: ____/____/____ USE BY* Date: ____/____/____	
*After this date/time, do NOT use. Contact the manufacturer for guidance. If directed to discard the vaccine, follow the manufacturer's and your jurisdiction's guidance on proper disposal.	
Vaccine may be transported for 12 cumulative hours.	
Transport date	
Time in transport:	
Time remaining:	
Name:	

Moderna COVID-19 Vaccine	
Store vaccine between 2°C and 8°C (36°F and 46°F) for up to 30 days.	
Lot number(s): _____	
Today's date: ____/____/____ USE BY* Date: ____/____/____	
*After this date/time, do NOT use. Contact the manufacturer for guidance. If directed to discard the vaccine, follow the manufacturer's and your jurisdiction's guidance on proper disposal.	
Vaccine may be transported for 12 cumulative hours.	
Transport date	
Time in transport:	
Time remaining:	
Name:	

<https://www.cdc.gov/vaccines/covid-19/info-by->

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2

Moderna COVID-19 Vaccine

Transporting Vaccine for Vaccination Clinics
Held at Satellite, Temporary, or Off-Site Locations

Procedure

Follow storage and handling best practices outlined in CDC's *Vaccine Storage and Handling Toolkit* to maintain the cold chain when packing and transporting vaccine.

CDC recommends transporting Moderna COVID-19 vaccine at frozen or refrigerated temperature using a portable freezer or refrigerator unit or a container/packout qualified to maintain the recommended temperatures.

To monitor vaccine temperatures, use a digital data logger with a buffered temperature probe that displays current, minimum, and maximum temperatures.

Upon arrival at clinic, place vaccine in an on-site storage unit that maintains recommended temperatures, if available. If there is no storage unit available, keep the vaccine in the transport container, maintaining recommended temperatures.

Temperature monitoring: Record time and min/max temperatures:

- At the start of transport
- Whenever the transport container is opened
- When transport concludes

Best Practices for Transporting mRNA Vaccines

- Protect vaccines as much as possible from drops, shocks, and vibration.
- To minimize movement, transport vials in the carton whenever possible.
- If individual vials must be transported:
 - Place vials with padding material like bubble wrap or similar materials to prevent breaking.
 - Secure storage containers during transport.
 - Keep vaccine vials upright whenever possible.

General Information

- Vaccine vials may be transported more than once.
- Transport thawed vaccine at refrigerated temperatures. Once thawed, vaccine should not be refrozen.
- Do NOT use dry ice when transporting vaccine.
- Both punctured and unpunctured vials may be transported.

Frozen transport: Between -50°C and -15°C (-58°F and 5°F)

- Only unpunctured vials may be transported frozen.
- Frozen transport is preferred if vaccine must be transported.
 - Do not freeze thawed vaccine.

Refrigerated transport: Between 2°C and 8°C (36°F and 46°F) for up to 12 total hours

- Unpunctured vials:** Vaccine may be stored at refrigerated temperatures for up to 30 days.
 - Time used for transport counts as part of the 30-day limit.
- Punctured vials:** Punctured vials may be transported at refrigerated temperatures
 - Once punctured, the vaccine must be used within 12 hours.

- CDC recommends transporting vaccine in vials. However, there may be instances when the only option is to transport predrawn vaccine in a syringe. U.S. Pharmacopeia includes guidance for transporting predrawn vaccine in syringes in the USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners.
- The 12-hour transport time frame is cumulative. Monitor and record all transport time to ensure this time frame is not exceeded.
 - Example: If the vaccine is transported for 1 hour to a clinic and for 1 hour back to the primary storage unit, the returned vials can be transported for an additional 10 hours.
 - Use CDC's beyond-use date (BUD) labels to track BOTH the refrigerator storage and transportation time frames.
 - Take care that vaccine is not refrozen during transport.

CDC's Transport Temperature Log <https://www.cdc.gov/vaccines/covid-19/downloads/transport-temperature-log.pdf>

CDC's beyond-use date (BUD) labels <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/bud-tracking-labels.pdf>

USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners <https://www.usp.org/covid-19/vaccine-handling-toolkit>

<https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/Moderna-Vaccine-Transport.pdf>

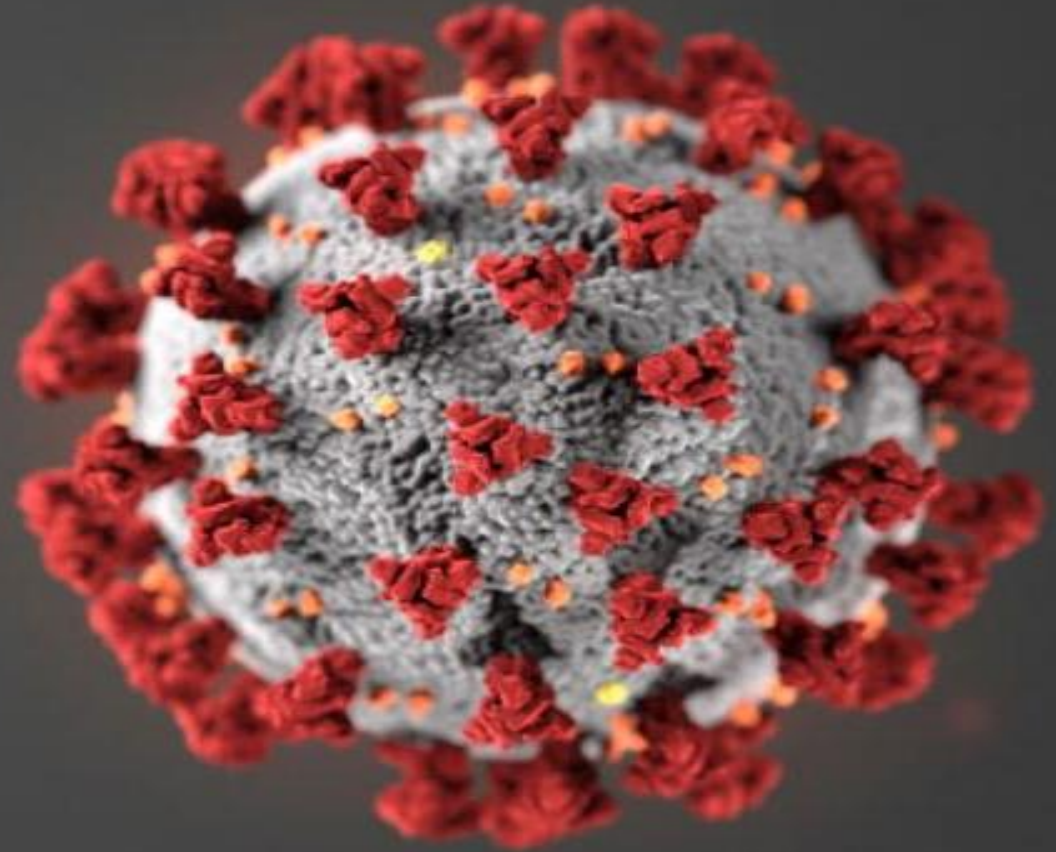
No! After the first dose has been withdrawn, vials must be stored between 2°C and 25°C (36°F and 77°F) and used within 12 hours

If I puncture a multidose vial but do not administer all doses in the multidose vial today, can I store it in the refrigerator for use the following day?

<https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/storage-summary.pdf>

- Basics
- Deliveries
- Ancillary Supply Kit
- Freezer Storage
- Refrigerator Storage
- Temperature Monitoring
- Transporting Vaccine
- Disposal

**Janssen
(Johnson & Johnson)
COVID-19 Vaccine
Storage and Handling**



Janssen Storage Temperature

Before Puncture	After Puncture
Between 2°C and 8°C (36°F and 46°F) until the expiration date	Between 2°C and 8°C (36°F and 46°F) for up to 6 hours *Discard any unused vaccine after 6 hours
	Between 9°C and 25°C (47°F and 77°F) for up to 2 hours *Discard any unused vaccine after 2 hours

Multidose Vial: 5 doses

Diluent: None

Janssen **Transport** Storage Temperature

Before Puncture	After Puncture
Between 2°C and 8°C (36°F and 46°F)	Between 2°C and 8°C (36°F and 46°F) for up to 6 hours *Discard any unused vaccine after 6 hours

Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Transporting Vaccine for Vaccination Clinics Held at Satellite, Temporary, or Off-Site Location <https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html>

Janssen Vaccine Transport Resources

Janssen COVID-19 Vaccine (Johnson & Johnson)

Transporting Vaccine for Vaccination Clinics
Held at Satellite, Temporary, or Off-Site Locations

Procedure

Follow storage and handling best practices outlined in CDC's *Vaccine Storage and Handling Toolkit* to maintain the cold chain when packing and transporting vaccine.

Transport Janssen COVID-19 Vaccine in a portable refrigerator unit or a container/packout qualified to maintain temperature between 2°C and 8°C (36°F and 46°F).

To monitor vaccine temperatures, use a digital data logger with a buffered temperature probe that displays current, minimum, and maximum temperatures. A DDL with an external temperature display is preferred to minimize opening the transport container.

Upon arrival at clinic, place vaccine in an on-site storage unit that maintains recommended temperatures, if available. If there is no storage unit available, keep the vaccine in the transport container, maintaining recommended temperatures.

Temperature monitoring: Record time and min/max temperatures:

- At the start of transport
- Whenever the transport container is opened
- When transport concludes

Detailed information and additional transport guidelines can be found in CDC's *Vaccine Storage and Handling Toolkit*.

General Information

- Vaccine vials may be transported more than once.
- Both punctured and unpunctured vials may be transported.
- Do NOT use dry ice when transporting vaccine.

Refrigerated transport: Between 2°C and 8°C (36°F and 46°F)

- Unpunctured vials:** Vaccine may be transported at refrigerated temperatures until the expiration date.
 - CDC recommends the total time for transport alone or transport plus clinic workday should be a maximum of 8 hours (e.g., if transport to an off-site clinic is 1 hour each way, the clinic may run for up to 6 hours).
- Punctured vials:** Punctured vials may be transported at refrigerated temperatures.
 - Once punctured, store the vaccine at refrigerated temperatures. Vaccine must be used within 6 hours.
 - Time used for transport counts as part of the 6-hour time limit.
- CDC recommends transporting vaccine in vials. However, there may be instances when the only option is to transport predrawn vaccine in a syringe. U.S. Pharmacopeia includes guidance for transporting predrawn vaccine in syringes in the USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners.

CDC's Transport Temperature Log

USP COVID-19 Vaccine Toolkit: Operational

YOU CALL THE SHOTS

When transporting refrigerated vaccines, use:

- A portable refrigerator or vaccine storage container qualified to maintain temperatures between 2°C and 8°C (36°F and 46°F).
- A digital data logger (DDL) with a thermal buffer and external temperature display (preferred). Place the probe as close as possible to the vaccine.
- This temperature log to document temperatures and how long the vaccine is in the portable storage container.

Temperature monitoring and transport time frames

- Most DDLs display minimum/maximum (min/max) temperatures.*
- Record the time and min/max temperatures:
 - At the start of transport
 - Every time the portable storage container is opened
 - When transport is completed
- The total time for transport alone or transport plus clinic workday should be a maximum of 8 hours.⁴
- Beyond-use date/time (BUD), if applicable, are included in transport time. For example, if the vaccine may be stored at refrigerated temperature for 120 hours, transport is included in this time frame.

!

If the temperature is out of range,
TAKE ACTION!

- Do **NOT** discard the vaccine.
- Label the vaccine "**Do Not Use.**"
- Complete the Vaccine Troubleshooting Record.
- Contact the manufacturer to determine under what conditions (refrigerated) to store the vaccine as quickly as possible.

Today's date: _____	Transport start time: _____	Transport end time: _____
Provider name: _____	Facility name: _____	PIN number: _____
Temperatures measured in (circle one): Celsius Fahrenheit		

Time															
Staff initials															
Min/max temperatures															

Temperatures lower than 2°C (36°F) and higher than 8°C (46°F) are out of range.⁴ Complete a Vaccine Troubleshooting Record. Contact the manufacturer and your immunization program.

- After packing the vaccine, open the portable storage container only when necessary.
- If using a company or personal vehicle, transport vaccines inside the passenger compartment (not in the trunk or bed of a truck, which may be too hot or too cold).
- Avoid leaving the portable storage container in direct sunlight or unattended.
- If needed, transport diluents with their corresponding vaccines to ensure there are equal amounts of vaccine and diluents. Follow the manufacturer's guidance for specific temp.

- Save this record for 3 years, unless your state/local jurisdiction requires a longer time period. See CDC's *Vaccine Storage and Handling Toolkit* for additional guidance.
- Refer to CDC's *Vaccine Storage and Handling Toolkit* for additional guidance when transporting vaccines.

* If the DDL does not measure min/max temperatures, check and record temperatures hourly.

https://www.cdc.gov/vaccines/covid-

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<https://www.cdc.gov/vaccines/covid-19/info-by-product/janssen/downloads/janssen-transportation-guidance.pdf>

No! After the vial is first punctured, the vaccine vial may be held:



- For up to 2 hours at room temperature; discard any vaccine not used within 2 hours
- OR--
- For up to 6 hours refrigerated between 2°C and 8°C; discard any vaccine not used within 6 hours

You should not add these time limits together (i.e., you may not hold the vaccine at room temperature for 2 hours and **then** hold it refrigerated for another 6 hours)

After first puncturing the vial, can the vaccine be held at room temperature for 2 hours, then in the refrigerator for an additional 6 hours, for a total of 8 hours?

Janssen (J & J) Storage and Handling Summary Handout

Janssen COVID-19 Vaccine (Johnson & Johnson) Storage and Handling Summary



» Refrigerator Storage

- CDC recommends storing vaccine between 2°C and 8°C (36°F and 46°F):
 - Unpunctured vials until the expiration date*
 - Punctured vials for up to 6 hours.† Note the date and time the vial was first punctured. Discard vaccine not used within this time.
- Do not freeze.
- Protect from light.
- As the expiration date approaches, extend the expiration date using the same "Deliveries" section. Do not ensure the expiration date tracking tool date changes.

» Temperature Monitoring

Storage unit temperatures must be monitored regularly and checked and recorded at the beginning of each workday to determine if any excursions have occurred since the last temperature check. For accurate temperature readings, use a digital data logger (DDL) with a detachable probe that best reflects vaccine temperatures (e.g., polypropylene, glass beads, sand, or Teflon®). Check and record the temperature daily using a temperature log and

▪ Option 1 (preferred): Minimum/Maximum Temperatures Most DDLs display minimum and maximum (min/max) temperatures. Check and record the min/max temperatures at the start of each workday.	▪ Option 2: Current Temperature If the DDL does not display min and max temperatures, check and record the current temperature of the workday. Review the current temperature daily.
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*Unpunctured vials may also be stored between 9°C and 25°C (47°F and 77°F) for up to 12 hours.
†Alternate option: A punctured vial may be stored at room temperature (9°C to 25°C [47°F to 77°F]) for up to 2 hours.

» Transporting Vaccine

Janssen COVID-19 vaccine may be transported at refrigerated temperatures using a portable unit or cooler to maintain appropriate temperatures.



Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Temperature Monitoring Toolkit.

CDC's Janssen COVID-19 vaccine materials <https://www.cdc.gov/vaccines/covid-19/info-by-product/janssen/index.html>
CDC's Vaccine Storage and Handling Toolkit <https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-handling-toolkit.html>
CDC's Temperature Monitoring Toolkit <https://www.cdc.gov/vaccines/hcp/admin/temperature-monitoring/toolkit/temperature-monitoring-toolkit.html>
CDC's Transport Guidance <https://www.cdc.gov/vaccines/hcp/admin/transportation/toolkit/transportation-toolkit.html>

For additional information, visit <https://www.cdc.gov/vaccines/covid-19/info-by-product/janssen/downloads/janssen-storage-handling-summary.pdf>

04/22/2021 CSJ2219

Janssen COVID-19 Vaccine (Johnson & Johnson) Storage and Handling Summary




» Basics

- Store vaccine in a refrigerator. See guidance below for further details.
- Each carton contains 10 multidose vials (50 doses).
 - A carton is approximately 3.7 in x 3.7 in x 2.1 in.
 - Each multidose vial contains 5 doses.
- Check and record storage unit temperatures each workday. See guidance below for each type of temperature monitoring device. Save storage records for 3 years, unless your jurisdiction requires a longer time period.

» Deliveries

Vaccine

1. The vaccine will arrive in a 2" to 8°C (36°F and 46°F) qualified shipping container.
2. Examine the shipment for signs of damage.
3. As a backup to the qualified shipping container, temperature monitors are placed in each shipment. Janssen vaccines may include thawed and frozen/partially frozen vaccines and due to this, only warm monitors will be included in Janssen shipments.
4. Remove the instruction card for the temperature monitor immediately. Follow the guide on the back of the card to read the monitor.
5. The expiration date is NOT printed on the vaccine vial or carton. To determine the expiration date:
 - Scan the QR code on the outer carton, or
 - Call 1-800-565-4008, or
 - Visit www.vaxcheck.jnj.com.Write the expiration date on the carton.

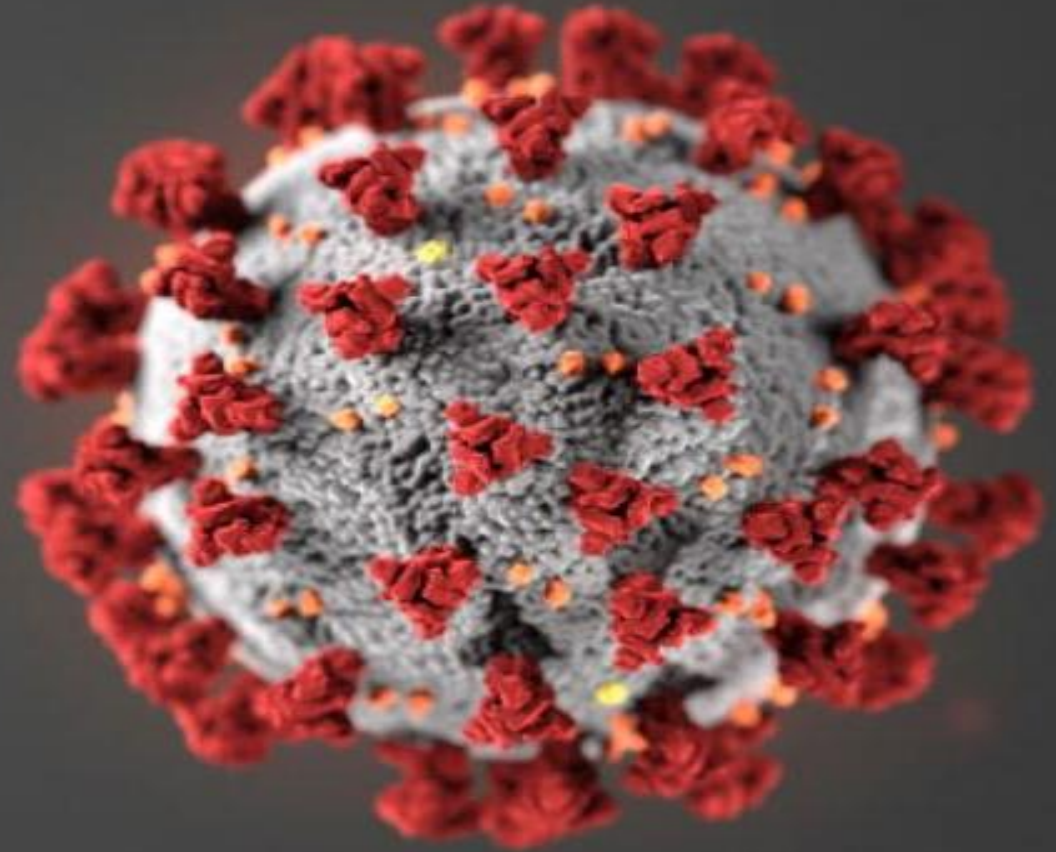


Ancillary Supply Kit

- An ancillary supply kit will be provided and includes enough supplies to administer 100 doses of vaccine.
- Administration supplies include needles, syringes, sterile alcohol prep pads, vaccination record cards (shot cards), and some PPE.
- The kit is delivered separately from the vaccine. Unpack the kit and check for receipt of the correct administration supplies and quantities.

- Basics
- Deliveries
- Ancillary Supply Kit
- Refrigerator Storage
- Temperature Monitoring
- Transporting Vaccine

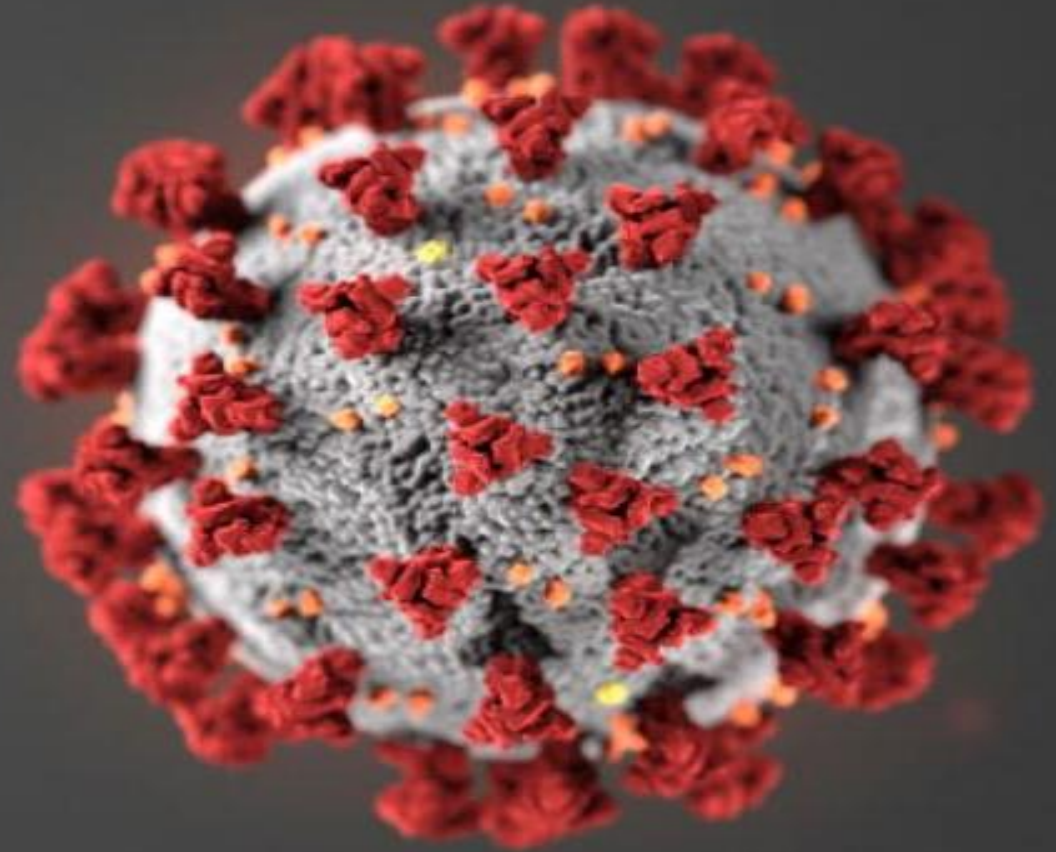
Additional Q & A



- Routine transportation of vaccines to different facilities is not generally recommended, however, there are times when this is necessary
- CDC recommends transporting COVID-19 vaccine in vials and always with a continuous temperature monitoring device to ensure adherence to authorized storage times and temperatures
- There may be instances when the only option is to transport vaccine in a predrawn syringe. CDC refers to the U.S. Pharmacopeia (USP) guidance for transporting predrawn vaccine in syringes on page 11 of the *USP COVID-19 Vaccine Toolkit: Operational Considerations for Healthcare Practitioners*. The complete document provides detailed guidance on COVID-19 vaccine transport and is available for download from this site: www.usp.org/covid-19/vaccine-handling-toolkit.

Can I
transport
vaccine in a
syringe?

Resources



COVID-19 Vaccine Quick Reference Guide

<div> <div></div> <div> COVID-19 Vaccine Quick Reference Guide for Healthcare Professionals </div> </div>		
	Pfizer	Moderna
Route	Intramuscular (IM) injection	Intramuscular (IM) injection
Site	Deltoid	Deltoid
Thawing Frozen Vaccine	Between: 2°C and 8°C (36°F and 46°F) or Room temperature up to 25°C (77°F) Do NOT refreeze thawed vaccine.	Between: 2°C and 8°C (36°F and 46°F) or 8°C to 25°C (46°F to 77°F) Do NOT refreeze thawed vaccine.
Mixing Vaccine	Mix vaccine with 1.8 mL of 0.9% sodium chloride (preservative-free, normal saline)	Do NOT mix with any diluent
VACCINE ADMINISTRATION	Contraindications • Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of the vaccine • Immediate allergic reaction† of any severity to a previous dose or known component of the vaccine Note: Persons who have a contraindication to an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) may be able to receive the Janssen COVID-19 vaccine (see footnote). ² Persons who have a contraindication to Janssen COVID-19 vaccine may be able to receive the mRNA COVID-19 vaccine (see footnote). ²	
	Precautions • Most people determined to have a precaution to a COVID-19 vaccine at the time of administration. • History of an immediate allergic reaction† to any other vaccine or injectable product, intravenous, or subcutaneous vaccines or therapies » This includes people with a reaction to a vaccine or injectable therapy or product, one of which is a vaccine component, but for whom it is unclear whether the reaction was due to the vaccine component or the other component. • People with a contraindication to mRNA COVID-19 vaccines have a precaution to Janssen COVID-19 vaccine and vice versa. (see footnote). ² • Moderate to severe acute illness	
	Post-Vaccination Observation 30 minutes: Persons with a history of an immediate allergic reaction to any injectable therapy or a history of anaphylaxis (from any cause) 15 minutes: All other persons	
	Injection site: pain, swelling, redness Systemic: fatigue, headache, muscle pain, chills, fever, joint pain	Injection site: pain, swelling, redness Systemic: fatigue, headache, muscle pain, chills, fever, nausea, joint pain
Footnote: †For the purpose of this guidance, an immediate allergic reaction is defined as any hypersensitivity-related signs or symptoms, such as hives, difficulty breathing, or swelling of the face or throat.		

<div> <div></div> <div> COVID-19 Vaccine Quick Reference Guide for Healthcare Professionals </div> <div> </div> </div>			
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 manufacturer's and CDC's webpages listed.			
	Pfizer	Moderna	Janssen
GENERAL	EUA www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/pfizer-biontech-covid-19-vaccine	EUA www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/moderna-covid-19-vaccine	EUA 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	CDC Vaccine Information www.cdc.gov/vaccines/covid-19/info-by-product/moderna/index.html	CDC Vaccine Information www.cdc.gov/vaccines/covid-19/info-by-product/janssen/index.html
	Manufacturer Contact Information Website: www.cvdvaccine.com Medical information: 800-438-1985 Customer service: 800-879-3477	Manufacturer Contact Information Website: www.modernatx.com Medical Information: 866-663-3762	Manufacturer Contact Information Website: www.vaxcheck.jnj.com Medical information: 1-800-565-4008
STORAGE & HANDLING	How supplied Multidose vial: 6 doses	Multidose vial: Maximum of 11 doses Multidose vial: Maximum of 15 doses	Multidose vial: 5 doses
	Diluent 0.9% sodium chloride (preservative-free, normal saline) provided in the ancillary kit. Do NOT use other diluent.	None	None
	Storage Temperatures: Before Puncture Between: -80°C and -60°C (-112°F and -76°F) until the expiration date -25°C and -15°C (-13°F and 5°F) for up to 2 weeks 2°C and 8°C (36°F and 46°F) for up to 1 month (31 days).	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 8°C and 25°C (46°F and 77°F) for a total of 24 hours	Between: 2°C and 8°C (36°F and 46°F) until the expiration date.
	Storage Temperatures: After puncture Between: 2°C to 25°C (36°F to 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 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 Between: -80°C and -60°C (-112°F and -76°F) until the expiration date -25°C and -15°C (-13°F and 5°F) for up to 2 weeks 2°C and 8°C (36°F and 46°F) for up to 1 month (31 days).	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 12 cumulative hours.	Between: 2°C and 8°C (36°F and 46°F) until the expiration date.
	Transport Temperatures: After Puncture Between: 2°C to 25°C (36°F to 77°F) for up to 6 hours.	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.
	Type of Vaccine mRNA	Type of Vaccine mRNA	Type of Vaccine Viral vector
	Age Indications 12 years of age and older	Age Indications 18 years of age and older	Age Indications 18 years of age and older
Schedule 2 doses, separated by 21 days. Both doses must be Pfizer-BioNTech vaccine			
Schedule 2 doses, separated by 28 days. Both doses should be Moderna vaccine			
Schedule 1 dose only			
Dosage 0.3 mL			
Dosage 0.5 mL			
Dosage 0.5 mL			

- General Information
- Storage & Handling
- Vaccine Administration

<https://www.cdc.gov/vaccines/covid-19/downloads/covid19-vaccine-quick-reference-guide-2pages.pdf>

CDC Resources by Vaccine Product

Learn more with CDC's COVID-19 vaccine tools and resources. Find information for COVID-19 vaccination administration, storage, reporting, training and education

<https://www.cdc.gov/vaccines/covid-19/info-by-product/index.html>

U.S. COVID-19 Vaccine Product Information

Find a suite of information and materials that are needed for each specific COVID-19 vaccine that cover administration, storage and handling, safety, and reporting.

Pfizer-BioNTech

Moderna

Janssen/J&J

Requirements, Trainings, and Resources

Vaccine Storage and Handling Toolkit

COVID-19 Vaccine Quick Reference Guide for Healthcare Professionals 

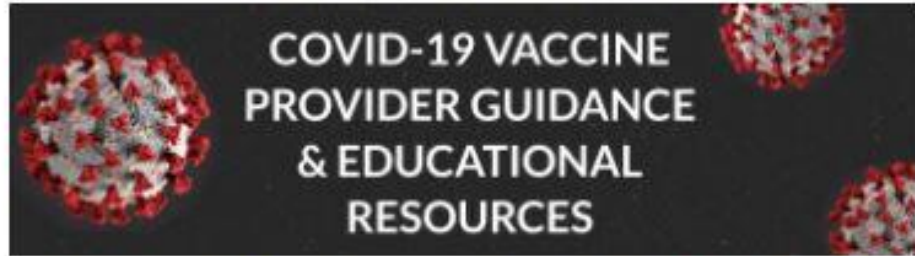
Training and Education

COVID-19 Vaccine Quick Reference Guide for Healthcare Professionals Poster 

Provider Requirements and Support

FAQs for Healthcare Professionals

COVID-19 Vaccine Provider Guidance and Educational Resources



This webpage will house materials to support COVID-19 Vaccine Providers in successful implementation of the COVID-19 Vaccination Program. Be sure to "bookmark" this page and check back frequently for updates!

GENERAL COVID-19 VACCINE RESOURCES

[COVID-19 Vaccination Clinic Preparation Checklist & Resource Toolkit](#) - **NEW**

[MDHHS COVID-19 Vaccination Interim Prioritization Guidance](#)

[CDC COVID-19 Vaccine Resources for Healthcare Professionals](#)

- Vaccine administration, storage and handling, reporting, and patient education for each specific vaccine

[COVID-19 Vaccine Training Module](#)

- Self-paced module with certificate of completion (no CE)
- MDHHS strongly recommends that all COVID-19 Vaccine Providers complete this training.

[CDC HCP Vaccine Administration Resource Library](#)

CONTENT-SPECIFIC COVID-19 RESOURCES

[Webinars](#)

- [Upcoming Noontime Knowledge: Thursday May 20, 2021 at 12:00 pm](#)

[Enrollment](#)

[Redistribution](#)

[Vaccine Billing and Vaccine Code Sets](#)

[Product-Specific Information & EUAs](#)

[Pfizer](#)

[Moderna](#)

[Janssen \(Johnson & Johnson\)](#)

MDHHS
COVID-19 Provider
Guidance and Education Website
www.michigan.gov/covidvaccineprovider

CONTENT-SPECIFIC COVID-19 RESOURCES

Webinars

- Upcoming Noontime Knowledge: Thursday June 3, 2021 at 12:00 pm

Education Corner

Enrollment

Redistribution

Vaccine Billing and Vaccine Code Sets

Product-Specific Information & EUAs

Pfizer

Moderna

Janssen (Johnson & Johnson)

Email Archive

- 5/28/21: Expired/Expiring COVID-19 Vaccine Guidance
- 5/21/21: 14-day Interval for COVID-19 Vaccines Removed
- 5/14/21: MCIR (Review Prior to Administration, What to do for Lost COVID Cards, etc.)
- 4/23/21: Is there an interval to vaccinate after a positive COVID-19 test?

MDHHS COVID-19 Provider Guidance and Education Website

www.michigan.gov/covidvaccineprovider

Thank You!

Next “Noontime Knowledge”
Update: June 17, 2021, at
12:00p.m. Topic: TBD

Please watch your email for
an updated link and topic!

www.michigan.gov/COVIDvaccineprovider

