

# 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

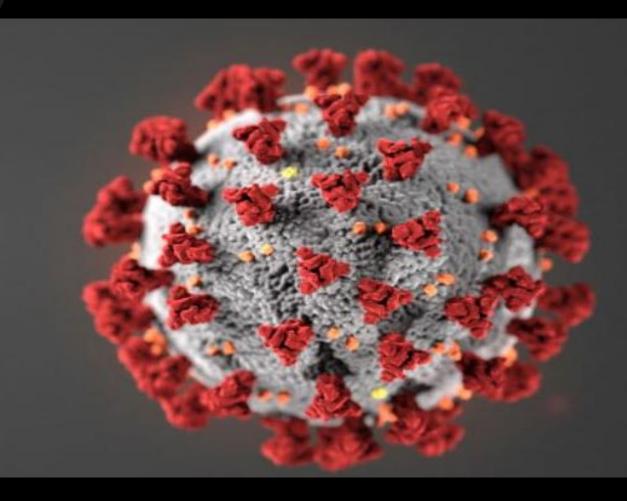
## Slides & Recording

 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: <a href="https://www.michigan.gov/COVIDvaccineprovider">www.michigan.gov/COVIDvaccineprovider</a>

# **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**

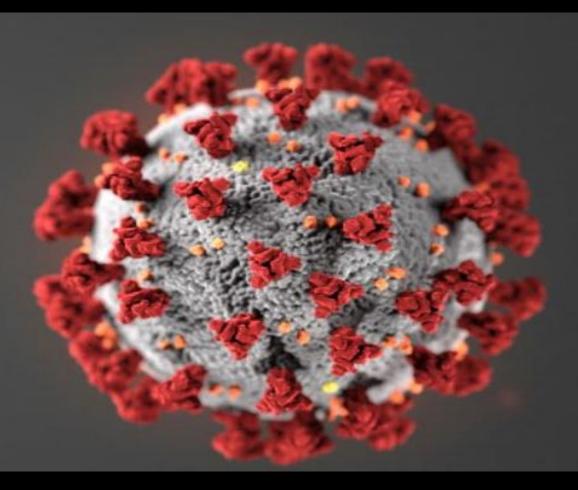


# **COVID-19 Vaccine Storage Equipment**

### 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

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							
Between -25°C and -15°C (-13°F and 5°F) for up to 2 weeks	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 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)	
Between -25°C and -15°C (-13°F and 5°F)	2°C to 25°C (36°F to 77°F) for up to 6 hours.
Between 2°C and 8°C (36°F and 46°F)	*Discard any unused vaccine after 6 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 <a href="https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html">https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html</a>

**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



#### **Thermal Shipping Contain**

CDC recommends providers cons significant support to store vaccin procedures for regular maintenan Use the Controlant temperature n

included with the thermal shippir the temperature.

- Review contact information.
- . If the contact for your order will NOT be notified in the e excursion. Contact your juris program for assistance.
- . If your contact is valid and y or cannot load email hyperli for troubleshooting (https:// onsitemonitoring).
- . Identify up to 4 contacts to r on the container's temperat
- Review DAILY e-mails on the s
- Click the link in daily e-mails to all temperature data. Save the temperature data for at least 3

#### **Ultra-Cold Freezer**

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

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

Before mixing, the vaccine may be replaces the manufacturer's expirexceed 2 weeks.

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

\*Dry ice will not be provided for Pfizer 450



Refrigerator

Before mixing, the vaccine may

31 days, contact the manufactu

jurisdiction's guidance for prop

Monitor how long the vaccing

Vaccine can be ordered in 2

**Temperature Monitoring** 

Ultra-cold freezer, freezer, ref

beginning of the workday to de

temperature monitoring, use a

Ultra-cold temperatures: Use

Check and record the temperat

Option 1 (preferred): Minis

(Min/Max) Temperature

Thermal Shipping Container:

container to monitor the tempe

0.9% sodium chloride (normal s

guidance for storing the diluen

Once mixed, vaccine can be

Discard any remaining vacci

Once vaccine has reached its ex

If instructed to dispose of vaccin

your local and state regulations

awardee-imz-websites.html) for

Do NOT return vaccine in the

CDC's Pfizer-BioNTech COVID-

CDC's Vaccine Storage and Hai

CDC's Pfizer Beyond-Use Date (

CDC's Delivery Checklist h

CDC's Freezer and Refrige

For additional information,

(2°C to 25°C [35°F to 77°F]) for

Diluent

Disposal

Mixed Vaccine

Most DDLs display min/max

the min/max temperatures a

measure ultra-cold temperat

refrigerator using CDC's bey

Pfizer-BioNTech COVID-19 va

#### Pfizer-B

Storage and

#### 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.
- Vaccine can be ordered in 2 amounts:
- 1170 doses per tray
- 450 doses divided between 3 boxes. Each box contains 25 vials.

#### Deliveries

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

- 1. Open the thermal shipping container. Press the stop shipment button on the temperature monitoring device for 5 seconds.
- 2. 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.
- 3. Proceed based on the color of the LED indicator light: No color or red: Wait for the status report. Green: Unpack the vaccine.
- 4. Follow the manufacturer's guidance for unpacking the vaccine. Inspect the travs.
- . Do not open the vial trays or remove vials until ready to
- \* If storing the vaccine at ultra-cold temperatures, return vaccine to frozen storage within 5 minutes.
- 5. 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

- 1. Dry ice is needed to maintain proper temperatures in the thermal shipping container.
- 2. Ensure staff has proper PPE and is trained to handle dry ice safely.
- 3. Do not use or store dry ice in confined areas, walkin refrigerators, environmental chambers, or rooms 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
- Ancillary supply kits have been reconfigured to support the number of doses ordered.

- without ventilation. A leak in such an area could cause a

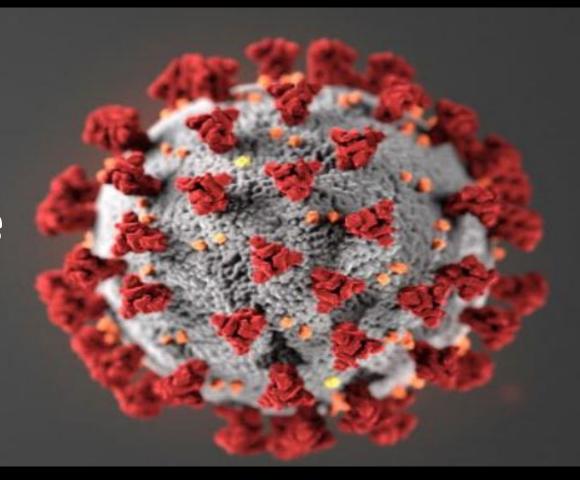
https://www.cdc.gov/vaccines/covid-19/info-byproduct/pfizer/downloads/storage-summary.pdf

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

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# 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						
Between 2°C and 8°C (36°F and 46°F) for up to 30 days	2°C and 25°C (36°F and 77°F)  for up to 12 hours  *Discard any unused vaccine after 12 hours					
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

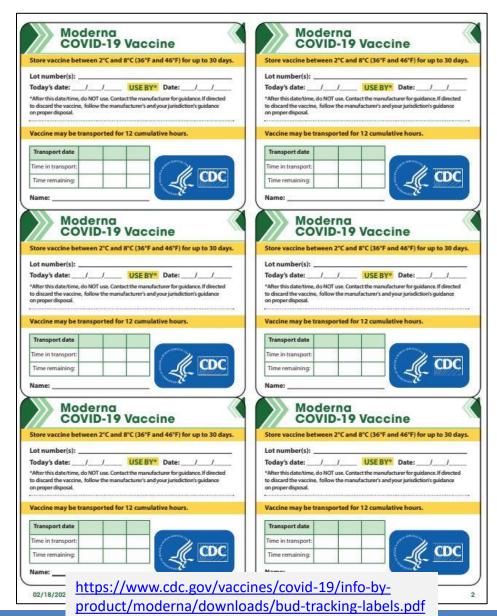
# Moderna Transport Storage Temperature

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
Between 2°C and 8°C (36°F and 46°F) for up to 12 cumulative hours	*Discard any unused vaccine after 12 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 <a href="https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html">https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html</a>

## Moderna Vaccine Transport Resources





#### 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. Pharmacopela includes guidance for transporting predrawn vaccine in syringes in the USP COVID-19 vaccine Toolklit: 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

0

**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?

# Moderna Storage and Handling Summary Handout



Unpunctured vials may be stored in the refrigerator between 2° to 8°C (36° to 46°F) for up to 30 days.

- Do NOT refreeze thawed vaccine.
- Thawed vaccine can be handled in room light.
- Monitor how long the vaccine has been in the refrigerator using CDC's beyond-use date labels.
- · Remove the box from frozen storage.
- · Complete the information on the storage label.
- · Attach it to the box holding the vaccine vials.
- Once labeled, place vaccine in the refrigerator.

Punctured vials may be stored between 2°F and 25°C (36°F and 77°F) for up to 12 hours.

#### >> Temperature Monitoring

Storage unit temperatures must be monitored regularly and checked and recorded at the beginning of if any excursions have occurred since the last temperature check. For accurate temperature monitoring, (DDL) with a detachable probe that best reflects vaccine temperatures (e.g., probe buffered with glycol, Teflon\*). Check and record the temperature daily using a temperature log and one of the options below

 Option 1: Minimum/Maximum Temperatures (preferred) 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/n check and record the current tem start and end of the workday. Rev DDL temperature data daily.

Moderna COVI

Vaccine

Today's date: 4 / 01 /2021 US

After this date/time, do NOT use. Contact the

Vaccine may be transported for 12 cu

Lot number(s): 123456A

Transport date | 4/5/21

Name: Anny Nurse RN

For CDC temperatures logs, see https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/inde

#### >> Transporting Vaccine

Moderna COVID-19 vaccine may be transported at frozen and refrigerated temperatures using a portab to maintain appropriate temperatures.

Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Transp Vaccination Clinics Held at Satellite, Temporary, or Off-Site Locations

Once vaccine has reached its expiration or beyond-use date, contact the manufacturer for guidance on instructed to dispose of vaccine, dispose of the vial (with any remaining vaccine) and packaging as med local and state regulations. Contact your jurisdiction's immunization program for guidance (https://www managers/awardee-imz-websites.html).

\*Unpunctured vials may be stored between 8° to 25°C (46° to 77°F) for a total of 24 hours.

For additional information, refer to the manufacturer's product information at https://www.modernatx.com/ CDC's Moderna COVID-19 materials https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/index.ht.

CDC's Vaccine Storage and Handling CDC's Moderna Beyond-Use Date (BUI Moderna COVID-19 Vaccine Transport vaccines/covid-19/info-by-product/mod

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#### Moderna COVID-19 Vaccine

Storage and Handling Summary



- Store vaccine in a freezer or refrigerator. See guidance below
   Use vaccine vials stored in the refrigerator before removing for each storage unit.
- Each box contains 10 multidose vials. Vaccine is supplied in two presentations:
- · -Maximum of 11 doses per vial
- -Maximum of 15 doses per vial
- Each box is approximately 2 inches by 2 inches by 5.4 inches
- vials from frozen storage.
- Check and record storage unit temperature 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

- The vaccine will arrive frozen between -50°C and -15°C (-58°F and 5°F).
- Examine the shipment for signs of damage.
- Open the box and remove TagAlert Temperature Monitor from box (placed in the inner box next to vaccine).
- 4. Check the TagAlert temperature monitoring device by pressing the blue "start and stop" button.
- Left arrow points to a green checkmark: The vaccine is ready to use. Store the vaccine at proper temperatures immediately.
- Right arrow points to a red X: The numbers 1 and/or 2 will appear in the display. Store the vaccine at proper temperatures and label DO NOT USE! Call the phone number indicated in the instructions or your jurisdiction's immunization program IMMEDIATELY!
- The expiration date is NOT printed on the vaccine vial or carton. To determine the expiration date:
- . Scan the QR code located on the outer carton, or
- Go to www.modernatx.com/covid19vaccine-eua/.

#### **Ancillary Supply Kit**

An ancillary kit with supplies will be provided for administering the vaccine. It includes enough supplies to administer 100 doses of vaccine (10 doses

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.

#### Freezer

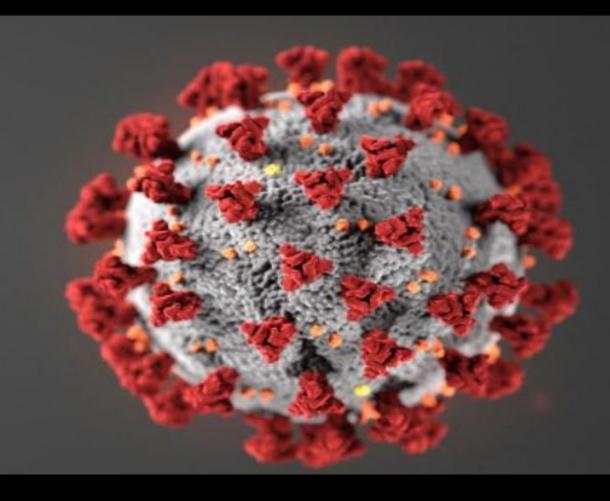
Unpunctured vials may be stored in the freezer between -50°C and -15°C (-58°F and 5°F).

https://www.cdc.gov/vaccines/covid-19/info-byproduct/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

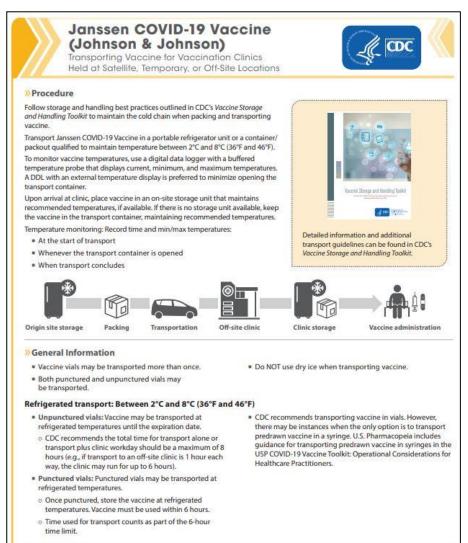
**Diluent:** None

# 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 <a href="https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html">https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html</a>

## Janssen Vaccine Transport Resources



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

USP COVID-19 Vaccine Toolkit: Operational

CDC's Transport Temperature Log



#### **Temperature Log**

when Transporting Vaccine at Refrigerated Temperatures



#### 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.\*
- 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.

	-	VALUE - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
7	n	If the temperature is out of range
		TAKE ACTION!

- Do NOT discard the vaccine.
- 2. Label the vaccine "Do Not Use."
- 3. 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:  Provider name:  Temperatures measured in (circle one): Celsius				Transport start time: Facility name: Fahrenheit						Transport end time: PIN number:					
Time															
Staff initials															
Min/max temperatures	/														
Temperatures lo	wer than 2°	C (36°F) and	higher th	an 8°C (46°	F) are out o	range.* Co	omplete a Va	ccine Troub	leshooting	Record, Cor	ntact the ma	nufacturer	and your im	munization	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 vaccines and diluents. Enllow the manufacturer's guidance.
- 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.

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https://www.cdc.gov/vaccines/covid-19/downloads/transport-temperature-log.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
- · Unpunctured vials until the expiration date
- Punctured vials for up to 6 hours.<sup>†</sup> Note the date and time the vial was first punctured. Discard vaccine not used within this time.
- Protect from light.
- been extended using the same the "Deliveries" section. Do no ensuring the expiration date expiration date tracking tool t date changes.

#### Temperature Monitoring

Storage unit temperatures must be monitored regularly and checked and recorded at the beginning determine if any excursions have occurred since the last temperature check. For accurate temperat digital data logger (DDL) with a detachable probe that best reflects vaccine temperatures (e.g., pro 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 Temperatur If the DDL does not display min and record the current tempera of the workday. Review the con data daily.

\*Unpunctured vials may also be stored between 9°C and 25°C (47°F and 77°F) for up to 12 hours <sup>1</sup>Alternate option: A punctured vial may be stored at room temperature (9°C to 25°C (47°F to 77°FI) for up to 2 hours.

#### >> Transporting Vaccine

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

Detailed guidance can be found in CDC's Storage and Handling Toolkit COVID-19 addendum and Tr Vaccination Clinics Held at Satellite, Temporary, or Off-Site Location.

CDC's Janssen COVID-19 vaccine materials https://www.cdc.gov/vaccines/covid-19/info-by-product/jansse CDC's Vaccine Storage and Handling Toolkit https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-h-

Do not freeze.

- As the expiration date approa
- Basics
  - Store vaccine in a refrigerator. See guidance below for further details.
  - Each carton contains 10 multidose vials (50 doses).

Janssen COVID-19 Vaccine

(Johnson & Johnson)

Storage and Handling Summary

- 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

- 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 OR code on the outer carton, or
- Call 1-800-565-4008, or
- Visit www.vaxcheck.ini.

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.

For additional in

https://www.cdc.gov/vaccines/covid-19/info-byproduct/janssen/downloads/janssen-storage-handling-summary.pdf Basics

Deliveries

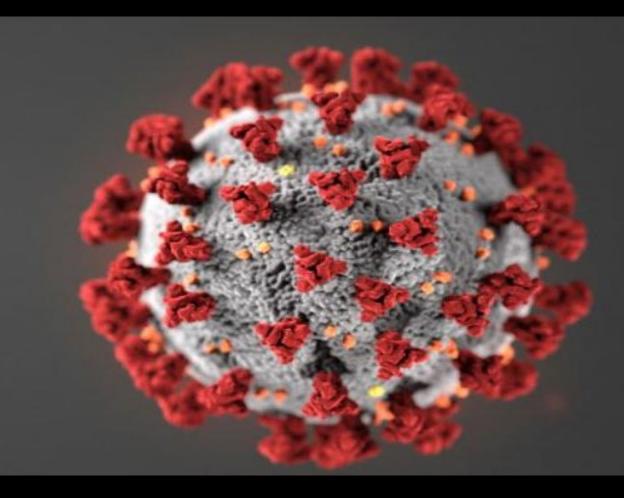
Ancillary Supply Kit

 Refrigerator Storage

 Temperature Monitoring

 Transporting Vaccine

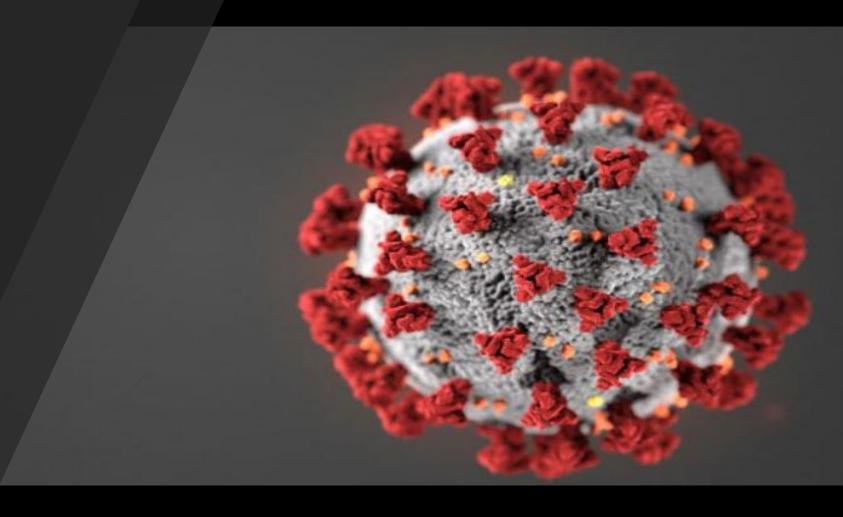
# Additional Q & A



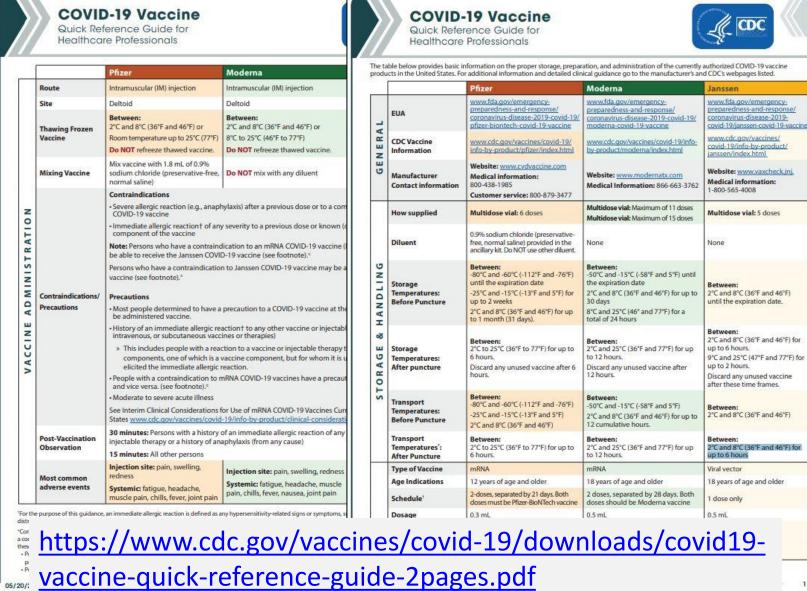
- Routine transportation of vaccines to different facilities is not generally recommended, however, there are times when this is necessary
- CDC recommends transporting COVID-19 vaccine in vials and always with a continuous temperature monitoring device to ensure adherence to authorized storage times 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: <a href="www.usp.org/covid-19/vaccine-handling-toolkit">www.usp.org/covid-19/vaccine-handling-toolkit</a>.

# Can I transport vaccine in a syringe?

# Resources



# COVID-19 Vaccine Quick Reference Guide

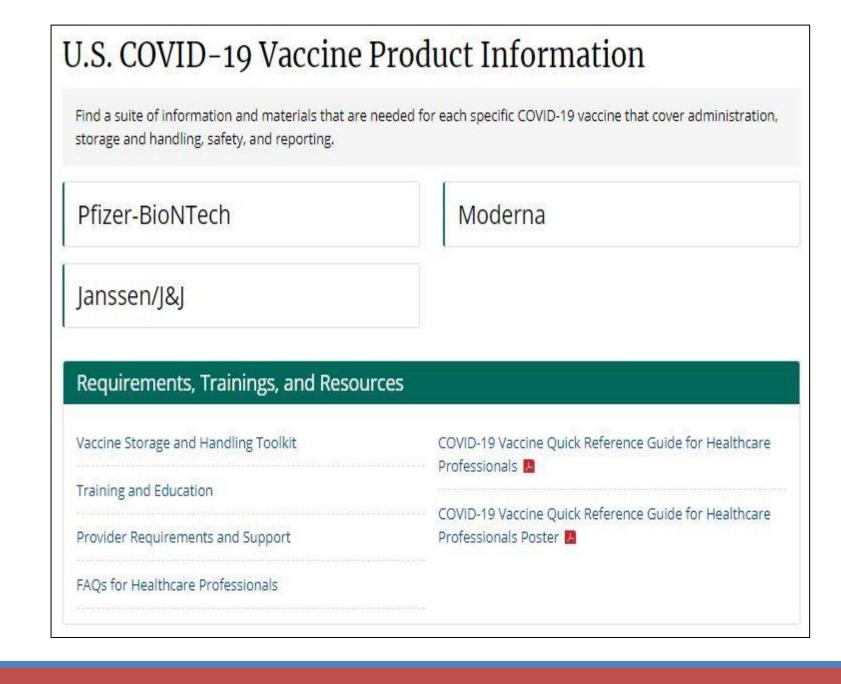


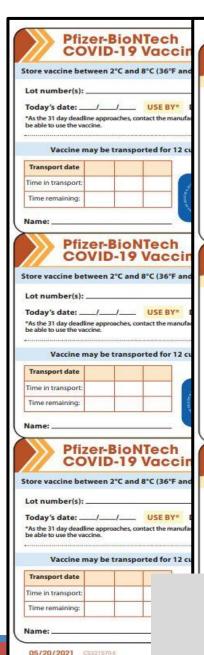
- General Information
- Storage & Handling
- Vaccine Administration

# 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







Ages:12 years of age and older Use for: Any dose in the 2-dos COVID-19 vaccines are NOT in Both doses should be COVID-

Route: Intramuscular (IM) inject Prior to administration, mix (normal saline, preservative-

#### Beyond Use Date/Time:

Freezer: Between -25°C and (-13°F to 5°F) for up to 2 weeks Refrigerator: Between 2°C an (36°F and 46°F) for up to 31 day Mixed vaccine: Use within 6 h of mixing.



Ages:12 years of age and older

Use for: Any dose in the 2-do COVID-19 vaccines are NOT in Both doses should be COVID-

Route: Intramuscular (IM) inject Prior to administration, mix (normal saline, preservative-

#### Beyond Use Date/Time:

Freezer: Between -25°C and -15 (-13°F to 5°F) for up to 2 weeks Refrigerator: Between 2°C and (36°F and 46°F) for up to 31 day Mixed vaccine: Use within 6 h of mixing.



Ages:12 years of age and older Use for: Any dose in the 2-dos COVID-19 vaccines are NOT in Both doses should be COVID-

Route: Intramuscular (IM) inject Prior to administration, mix (normal saline, preservative-

#### Prevaccine for COVID-

For vaccine recipients The following questions will help us of you should not get the COVID-19 vace to any question, it does not necessa vaccinated. It just means additional question is not clear, please ask your

- 1. Are you feeling sick today?
- 2. Have you ever received a dose of . If yes, which vaccine product di ☐ Pfizer
  - · Did you bring your vaccination
- 3. Have you ever had an allergic read to go to the hospital. It would also include an
- · A component of a COVID-19 va
- o Polyethylene glycol (PEG), wh preparations for colonoscopy
- o Polysorbate, which is found in
- A previous dose of COVID-19 va
- 4. Have you ever had an allergic read or an injectable medication? (This would include a severe allergic reaction caused you to go to the haspital. It would als including wheezing.)
- 5. Check all that apply to you:
  - Am a female between ages 18
  - ☐ Had a severe allergic reaction t environmental or oral medicat
- ☐ Had COVID-19 and was treated
- ☐ Diagnosed with Multisystem In
- ☐ Have a weakened immune syst
- ☐ Take immunosuppressive drug
- ☐ Have a bleeding disorder
- ☐ Take a blood thinner

#### Pfizer-BioNTech COVID-19 Vaccine

Vaccine Preparation and Administration Summary



#### General Information

Vaccine: Pfizer-BioNTech COVID-19 Vaccine Diluent: 0.9% sodium chloride (normal saline, preservative-free) Use a new vial every time. Multidose vial: 6 doses per vial

Dosage: 0.3 mL

Vaccine MUST be mixed with diluent before administration.

#### Thawing Frozen Vaccine

- Frozen vaccine must be thawed before using.
- Thaw vaccine in the refrigerator or at room temperature:
- Refrigerator: Between 2°C and 8°C (36°F and 46°F) Unpunctured vials may be stored in the refrigerator for up to 1 month (31 days).
- Room temperature (for immediate use): Up to 25°C (77°F) Unpunctured vials cannot be kept at room temperature for more than 2 hours (including thaw time).

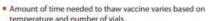
#### Age Indications

12 years of age and older Schedule

2-dose series separated by 21 days A series started with Pfizer-BioNTech COVID-19 Vaccine should be completed with this product.

Administration

Intramuscular (IM) injection in the deltoid muscle



- Do NOT refreeze thawed vaccine.
- Use CDC's beyond-use date labels for this vaccine to track
- temperature and number of vials.
- Use vials in the refrigerator before removing vials from ultracold temperature or freezer storage.
- storage time at refrigerated and frozen temperatures.

#### Prepare the Vaccine

Follow aseptic technique. Perform hand hygiene before vaccine preparation, between patients, when changing gloves (if worn), and any time hands become soiled."



Remove vaccine from the freezer or refrigerator. Allow vaccine to come to room temperature. Vials can be held at room temperature for up to 2 hours before mixing.



Before mixing, check the expiration dates of the vaccine and diluent. NEVER use expired vaccine or diluent. The expiration dates for the diluent and the vaccine are located on the respective vials.



With the vaccine at room temperature, gently invertival 10 times. Do not shake the vial. If the vial is shaken, contact the manufacturer. The vaccine is white to off-white in color and may contain opaque particles. Do not use if liquid is discolored.



Using a new, sterile alcohol prep pad for each vial, wipe off the stoppers of the diluent and vaccine vials. Using a 21-gauge (or narrower) needle, withdraw 1.8 mL of 0.9% sodium chloride (normal saline, preservative-free) into



Inject 1.8 mL 0.9% sodium chloride (normal saline, preservative-free) diluent into the vaccine vial.



Using the mixing syringe, remove 1.8 mL of air from the vaccine vial to equalize the pressure in the vaccine vial.



Gently invert the vial containing vaccine and diluent 10 times. The vaccine will be off-white in color. Do not use if discolored or contains particulate matter. Do not shake, If the vial is shaken, contact the manufacturer.



Note the date and time the vaccine was mixed on the vial.



Keep mixed vaccine between 2°C and 25°C (36°F to 77°F), minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. Administer within 6

any unused vaccine after ot return to freezer storage.

ctious body fluids or has open lesions on the

Administration Summary

 Prevaccination Screening Checklist

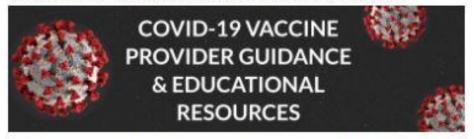
Preparation &

- **BUD Labels** (Pfizer & Moderna)
- Storage and Handling Labels

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

MOHHS | ADULT & CHILDREN'S SERVICES | CHILDREN & FAMILIES | IMMUNIZATION INFO FOR FAMILIES & PROVIDERS

#### 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 handing, reporting, and patient education for each specific vaccine.

#### COVID-19 Vaccine Training Module

- Self-paced module with cartificate of completion (no CE).
- MDHH 8 strongly recommends that all COVID-18 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?

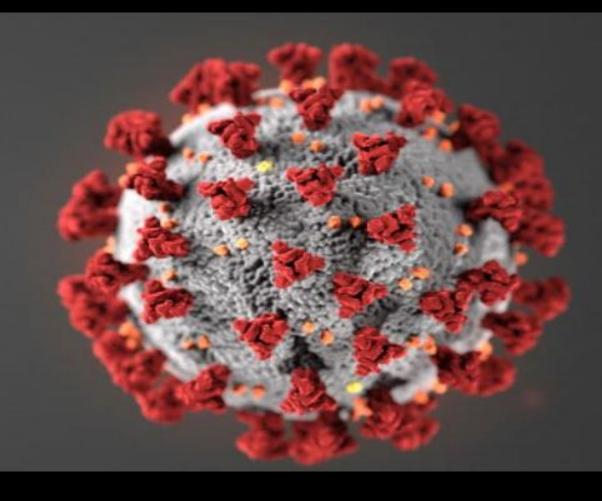
## MDHHS COVID-19 Provider Guidance and Education Website

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