New York State COVID-19 Vaccine Program Guidance for Vaccine Transport

Routine transport of vaccine is not recommended. Each transport increases the risk of exposing vaccineto inappropriate storage conditions, which compromises the viability of vaccines. However, in certain situations transporting vaccine may be necessary.

Any time vaccine is transported, return the completed Transport Tracking Form(s) (final page of this guidance) to the NYS COVID-19 Vaccine Program via email at covid19vaccine@health.ny.gov

Each receiving location with storage capacity must be enrolled in the COVID-19 VaccineProgram and must follow all NYS Department of Health guidance and directives, including storage and handling requirements.

How should vaccine be transported?

- 1. Portable vaccine refrigerator and freezer units are considered the best option for vaccine transport. Portable vaccine refrigerator/freezer units are preferred because they use built-in temperature regulation, controlled by a thermostat, to maintain the temperature and do not require the use of packout methods to maintain appropriate temperatures.
- 2. Use a continuous temperature monitoring device or digital data logger to monitor temperatures during transport.
- **3.** Qualified containers and packouts are tested under laboratory conditions and are acceptable to use for emergency or short-term vaccine transport, when portable vaccine refrigerator units are not available.
 - A. Qualified containers do not have built-in temperature regulation to maintain temperature but are known to maintain appropriate temperatures when a qualified packout method is also used.
 - B. Polystyrene coolers or intact Styrofoam vaccine shipping containers are examples of qualified containers. Soft-sided or collapsible coolers are never acceptable.
 - C. Qualified packouts require specific supplies and packing procedures to minimize temperature excursions. Refer to the instructions in the *CDC's: Packing Vaccines for Transport during Emergencies* on pages 3 and 4.
 - D. A **hard-sided insulated cooler** may be used for short-term or emergency transport when portable or qualified containers are not available.

4. To transport refrigerated vaccine:

- A. Temperatures during transport are to be maintained between 36° F and 46° F (2° Cand 8° C). Janssen, Moderna and Pfizer vaccine may be transported refrigerated.
- B. Use portable refrigerator unit or qualified container and packout with a digital data logger. Properly maintained packouts can hold appropriate temperatures for up to 8 hours if left undisturbed.
- C. Keep vaccines out of direct sunlight.
- D. Protect vaccines as much as possible from drops, shocks, and vibration. Transport in the original carton whenever possible. If individual vials are transported vials should be placed with dunnage (padding material like bubble wrap or similar padding). Transport container must be secured.
- E. Take care to ensure vaccine does not refreeze during transport.
- F. Include hours used for transport when calculating the beyond use date (BUD) for vaccines. For more information and sample BUD tracking labels, see <u>https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/bud-tracking-labels.pdf</u> and <u>https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/bud-tracking-labels.pdf</u>

5. To transport frozen vaccine:

- A. The Moderna vaccine and the Pfizer vaccine may be stored or transported in a frozen state. For Moderna, the acceptable temperature range for frozen storage or transport is -50° C to -15° C (-58° F to 5F). For Pfizer, the acceptable temperature range is -25° C to -15° C (-13° F to 5° F). AS long as the vaccine has not already been thawed, frozen transport is preferred for Moderna **or individual vials of Pfizer vaccine**.
- B. Use a portable freezer unit or qualified container and packout and a digital data logger acceptable for frozen temperatures. Follow steps for packing refrigerated vaccine (pages 3 and 4) except use FROZEN water bottles or ice packs instead of conditioned water bottles.
- C. Immediately upon arrival at the destination, unpack the vaccines and place them in a freezer or refrigerator at an acceptable temperature range.
- D. If individual vials of Pfizer are transported frozen, any hours used for transport count against the 2-week (14 days) limit for storage at -25° C to -15° C. Frozen vials transported at -25° C to -15° C may be returned one time to the recommended storage condition of -80° C to -60° C.
- E. Never transport or store Moderna vaccine on dry ice or below -50° C (-58° F).
- F. Keep vials out of direct sunlight.
- G. If frozen vaccine begins to thaw during transport, store in a refrigerator at receiving location. Do NOT refreeze vaccine that has started to thaw.

6. To transport ultra-frozen vaccine:

- A. The Pfizer vaccine is the only COVID vaccine that can be stored or transported in an ultra-frozen state (-80° C to -60° C or -112° F to -76° F).
- B. Use the original thermal shipping container with dry ice or aportable ultra-cold freezer that can maintain a temperature of -80° C.
- C. **Transport only full trays of vaccine**; partial trays or individual vials must be transported at -25° C to -15° C unless already thawed, which requires refrigerated transport.
- D. Keep tray(s) in original packaging to protect vaccine from light.
- E. Do not open trays or remove any vials until ready to thaw.
- F. Place trays in ultra-cold storage within five minutes of unpacking.
- G. Once Pfizer COVID-19 vaccine is removed from ultra-cold storage, it must be used within 14 days at standard freezer temperatures, or one month (31 days) at refrigerated temperatures.
- H. Never refreeze thawed vaccine.

If temperature goes above or below the appropriate range during transport, report as soon as vaccine arrives at the receiving location by emailing <u>vaccinetempexcursion@health.ny.gov</u>.

Resources

Centers for Disease Control (CDC), Packing Vaccines for Transport during Emergencies, http://www.cdc.gov/vaccines/recs/storage/downloads/emergency-transport.pdf

Centers for Disease Control (CDC), Vaccine Storage and Handling Toolkit, <u>https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-handling-toolkit.pdf</u> pages 21-24 and 49-62

Packing Vaccines for Transport during Emergencies

Be ready BEFORE the emergency

Equipment failures, power outages, natural disasters—these and other emergency situations can compromise vaccine storage conditions and damage your vaccine supply. **It's critical to have an up-to-date emergency plan with steps you should take to protect your vaccine.** In any emergency event, activate your emergency plan immediately, and if you can do so safely, follow the emergency packing procedures for refrigerated vaccines.

Gather the Supplies



1





Conditioned frozen water bottles

• Do NOT use soft-sided collapsible coolers.

refrigerated vaccines.

• Use 16.9 oz. bottles for medium/large coolers or 8 oz. bottles for small coolers (enough for 2 layers inside cooler).

• Coolers should be large enough for your location's typical supply of

Can use original shipping boxes from manufacturers if available.

Hard-sided coolers or Styrofoam™ vaccine shipping containers

- Do NOT reuse coolant packs from original vaccine shipping container, as they increase risk of freezing vaccines.
- Freeze water bottles (can help regulate the temperature in your freezer).
- Before use, you must condition the frozen water bottles. Put them in a sink filled with several inches of cool or lukewarm water until you see a layer of water forming near the surface of bottle. The bottle is properly conditioned if ice block inside spins freely when rotated in your hand.

Insulating material — You will need two of each layer

- Insulating cushioning material Bubble wrap, packing foam, or Styrofoam[™] for a layer above and below the vaccines, at least 1 in thick. Make sure it covers the cardboard completely. Do NOT use packing peanuts or other loose material that might shift during transport.
- **Corrugated cardboard** Two pieces cut to fit interior dimensions of cooler(s) to be placed between insulating cushioning material and conditioned frozen water bottles.



Temperature monitoring device – Digital data logger (DDL) with buffered probe. Accuracy of +/-1°F (+/-0.5°C) with a current and valid certificate of calibration testing. Pre-chill buffered probe for at least 5 hours in refrigerator. Temperature monitoring device currently stored in refrigerator can be used, as long as there is a device to measure temperatures for any remaining vaccines.

Why do you need cardboard, bubble wrap, and conditioned frozen water bottles? Conditioned frozen water bottles and corrugated cardboard used along with one inch of insulating material such as bubble wrap keeps refrigerated vaccines at the right temperature and prevents them from freezing. Reusing vaccine coolant packs from original vaccine shipping containers can freeze and damage refrigerated vaccines.



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Visit www.cdc.gov/vaccines/SandH for more information, or your state health department.

NYS COVID-19 Vaccine Program: Guidance for Vaccine Transport

Packing Vaccines for Transport during Emergencies

Pack for Transport

2

Conditioning frozen water bottles

- Put frozen water bottles in sink filled with several inches of cool or lukewarm water or under running tap water until you see a layer of water forming near surface of bottle.
- The bottle is properly conditioned if ice block inside spins freely when rotated in your hand.
- If ice "sticks," put bottle back in water for another minute.
- Dry each bottle.
- Line the bottom and top of cooler with a single layer of conditioned water bottles.
- Do NOT reuse coolant packs from original vaccine shipping container.



Before opening cooler – Record date, time, temperature, and your initials on vaccine temperature log. **Storage** – Transfer boxes of vaccines quickly to storage refrigerator.

Troubleshooting – If there has been a temperature excursion, contact vaccine manufacturer(s) and/or your immunization program before using vaccines. Label vaccines "Do Not Use" and store at appropriate temperatures until a determination can be made.

COVID-19 Vaccine Transport Tracking Sheet

Providers must email completed Vaccine Transport Tracking Sheet to covid19vaccine@health.ny.gov. Please include "transport tracking" in the subject line.										
Date of transport:	Name of provider releasing vaccine:	PIN:								
Name of contact person at releasing provider:	F	one number of contact person:								
Temperature of <i>releasing</i> storage unit on day	of transport: C °F Time placed i	in transport container: AM 🗌 PM								
Vaccines will be transported (Select one): Refrigerated 2°C to 8°C (36°F to 46°F)	Frozen Varies by manufacturer (see below)	○ Ultra-frozen -80°C to -60°C (-112°F to -76°F)								
 Moderna, Pfizer, and Janssen vaccines Use portable refrigerator unit or qualified container and packout with DDL Keep vaccines out of direct sunlight Transport only full, unpunctured vials Minimize shocks and vibrations during transport Include hours used for transport when calculating the beyond use date (BUD) for Moderna and Pfizer vaccines Never refreeze thawed vaccine 	 Moderna and Pfizer vaccine Use a portable freezer unit or qualifiedcontainer and packout with DDL Never transport or store Moderna vaccineon dry ice or below -50° C (-58° F) Moderna frozen temperature range is -50° C to -15° C (-58° F to 5° F) Keep vaccine out of direct sunlight Pfizer frozen temperature range is -25° C to -15° C (-13° F t 5° F) Include hours of transport in 2-week limit for Pfizer frozen storage Pfizer vaccine transported frozen may be returned to ULT storage one time Never refreeze thawed vaccine 	 Pfizer vaccine only Use original thermal shipping container with dry ice or a portableultra-cold freezer that can maintain a temperature of -80° C (-112° F) Transport only full trays of Pfizer vaccine at ultra- frozen temperatures Keep tray(s) in original packaging to protect vaccine from li Do not open trays or remove any vials until ready to thaw Place trays in ultra-cold storage within five minutes of unpacking Once removed from ultra-cold storage, vaccine must be used within one month (31 days) Never refreeze thawed vaccine 								

Vaccines included in this transport (Attach additional sheets if needed):

Manufacturer	Lot #	Expiration Date	Beyond Use Date (BUD) ¹	# of Doses ²	Cold Chain Maintained(Y/N) ³	Comments			
indiadecarei	201 #	Expiration Bate	(868)	Deses	Mantanea(1/14)	comments			
¹ The BUD for Moderna vaccine will be 30 days after thawing begins. The BUD for Pfizer vaccine is 14 days in the freezer and 31 days after thawing begins.									
² After 2/16/2021, count six doses per vial for Pfizer vaccine.									
³ If temperature goes ou	t of range during t	ransport, report imn	nediately to <u>vaccinetem</u>	pexcursion@	health.ny.gov				
Name of provider receiving vaccine (or alternate storage location):						PIN:			
Name of contact person at <i>receiving</i> provider:					Phone	e number of contact person:			

____℃___°F

Time arrived at receiving location: _____ AM PM

Temperature of *receiving* storage unit on day of transport:

Maximum temperature reached during transport:	°C		°F
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Temperature of transport container upon arrival:______ C