

STORAGE AND HANDLING 21 SEPTEMBER 2023

Topics Covered

- Vaccine Storage
- Temperature Monitoring
- Temperature Excursions
- Available Presentations of COVID-19 Vaccine
 - Novavax
 - Moderna
 - Pfizer
- Ultra Cold Considerations
- Clearing Out Unauthorized COVID-19 Vaccine
- Resources

Vaccine Storage

- Position vaccines and diluents 2 to 3 inches from the sides of the unit
- Store each type of vaccine or diluent in its original packaging and in a separate container
- Label shelves and containers to clearly identify where each type of vaccine and diluent is stored
- Avoid placing or storing any items other than vaccines, diluents, and water bottles inside storage units
- Arrange vaccines and diluents in rows and allow space between them to promote air circulation
- Place vaccines and diluents with the earliest expiration dates in front of those with later expiration dates
- Ensure all inventories from CVP, AVP and Private Purchase vaccines are separated and Clearly Marked

Temperature Monitoring

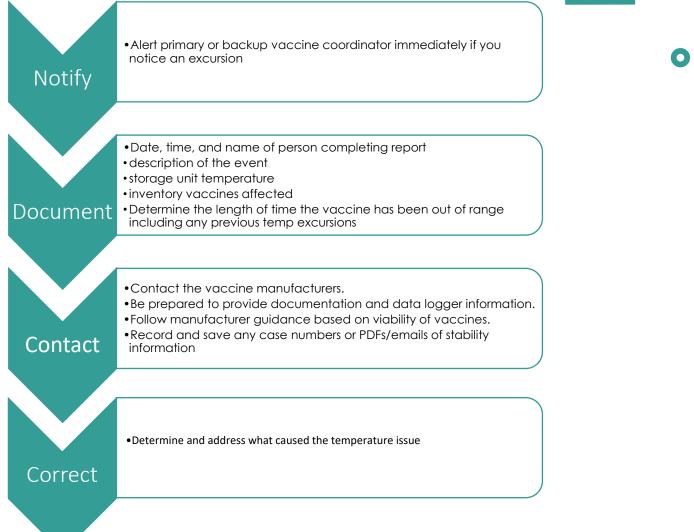
- All units should have a Temperature Monitoring Device
 - Ensure digital data logger (DDL) is working properly and the storage isn't full
 - DDL should be recalibrated every 2-3 years
- ALWAYS keep backup paper temperature logs
- When submitting temperature logs make sure to review:
 - The correct month is being uploaded
 - The correct units is being uploaded
 - All days of the month are included
 - If there are excursions on the temperature log it needs to be noted and the excursion process followed

Temperature Monitoring

COVID-19 vaccine must be kept within certain temperature ranges. Acceptable temperatures are displayed below for each type of storage unit:

	Acceptable range (C)	Acceptable range (F)
Ultracold freezer	-90° to –60° C *	-130° to –76° F
Standard freezer	-50° to –15° C	-58° to 5° F
Refrigerator	2° to 8° C	36° to 46° F

Addressing Temperature Excursions



• <u>Vaccine Temperature Excursion Guide</u> (wa.gov)

2023-2024 COVID-19 Vaccine Product Characteristics and Information

Vaccine Manufacturer/Brand Name	Age Group	Vial Cap/ Label Color	Dose	Dose Volume	Amount of Diluent Needed per Vial	Doses per Vial
Pfizer-BioNTech/Comirnaty 2023-2024 Formula adolescent/adult single-dose vial	12 years+	Gray	30 mcg	0.3 mL	NO DILUTION	10/package
Pfizer-BioNTech 2023-2024 Formula pediatric single-dose vial	5-11 years	Blue	10 mcg	0.3 mL	NO DILUTION	10/package
Pfizer-BioNTech 2023-2024 Formula pediatric/infants multi-dose vial	6 months- 4 years	Yellow	3 mcg	0.3 mL	1.1 mL	3
Moderna/Spikevax 2023-2024 Formula adolescent/adult single-dose vial	12 years +	Dark Blue	50 mcg	0.5mL	NO DILUTION	10/package
Moderna 2023-2024 Formula pediatric single-dose vial	6 months-11 years	Dark Blue Cap/	25 mcg	0.25mL	NO DILUTION	10/package
Novavax adolescent/adult primary series	12 years +	Royal Blue	5 mcg rS and 50 mcg of Matric-M adjuvant	0.5 mL	NO DILUTION	10
Deauthorized: Pfizer-BioNTech adolescent/adult bivalent	12 years +	Gray	30 mcg	0.3 mL	NO DILUTION	6
Deauthorized: Pfizer-BioNTech adolescent/adult bivalent single-dose vial	12 years +	Gray	30 mcg	0.3 mL	NO DILUTION	10/package
Deauthorized: Pfizer-BioNTech pediatric bivalent	5-11 years	Crange	10 mcg	0.2 mL	1.3 mL	10 (after dilution)
Deauthorized: Pfizer-BioNTech pediatric/infants bivalent	6 months- 4 years	Maroon	3 mcg	0.2 mL	2.2 mL	10 (after dilution)
Deauthorized: Moderna adolescent/adult bivalent	12 years +	Dark Blue Cap/ Gray Label	50 mcg	0.5mL	NO DILUTION	5
Deauthorized: Moderna pediatric bivalent	6 months- 11 years	Dark Blue Cap/ Gray Label	25 mcg	0.25 mL	NO DILUTION	10
Deauthorized: Moderna pediatric/infants bivalent	6 months- 5 years	Magenta Cap/	10 mcg	0.2mL	NO DILUTION	2



DOH 825-047 September 2023 To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email <u>civil rights@doh.wa.gov.</u>

Please review CDC's interim COVID-19 immunization schedule for ages 6 months and older.

Knowledge Check #1

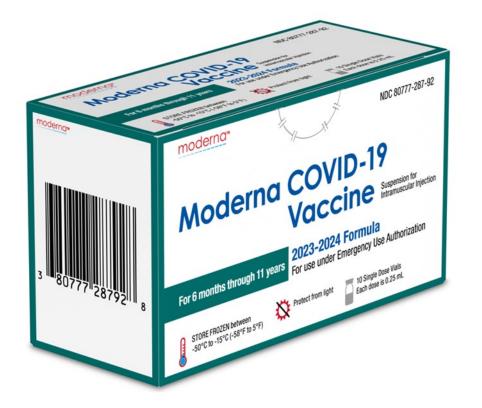
Novavax

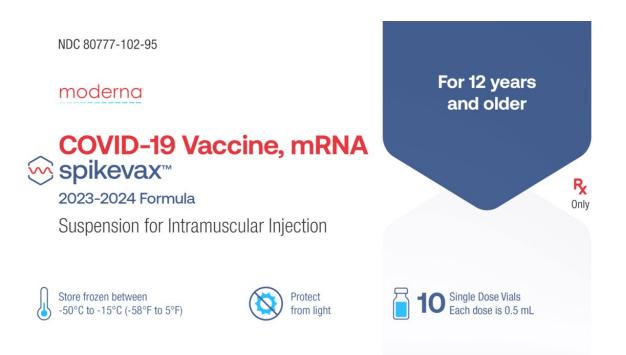
- UNPUNCTURED VIALS
 - Store between 2C° to 8°C (36F° to 46°F) until the expiration date
- PUNCTURED VIALS
 - Store between 2C° to 8°C (36F° to 46°F) up to 6 hours. Discard vial and any remaining vaccine after 6 hours.

No new updates at this time

Novavax COVID-19 Vaccine | CDC

Moderna





Moderna COVID-19 Vaccine (2023-2024 Formula) 6 Months Through 11 Years of Age	SPIKEVAX (COVID-19 Vaccine, mRNA) (2023-2024 Formula) 12 Years of Age and Older	
Roterne ODVID-19 Ver Roterne ODVID-19 Ver	O.5 mL single dose vial	0.5 mL single dose pre-filled syringe
NDC 80777-287-07	NDC 80777-102-04	NDC 80777-102-01
Individual single dose vial	Individual single dose vial	Individual single dose pre-filled
		syringe
NDC 80777-287-92	NDC 80777-102-95	
Carton of 10 single dose vials	Carton of 10 single dose vials	NDC 80777-102-96 Carton of 10 single dose pre-filled syringes
		NDC 80777-102-93 Carton of 10 single dose, blister- sealed pre-filled syringes

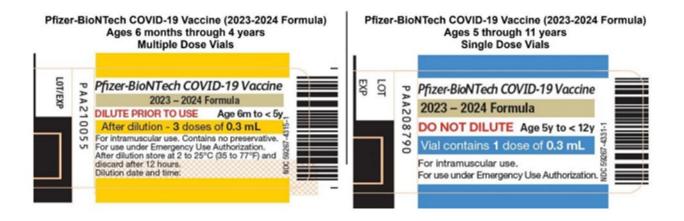
Moderna

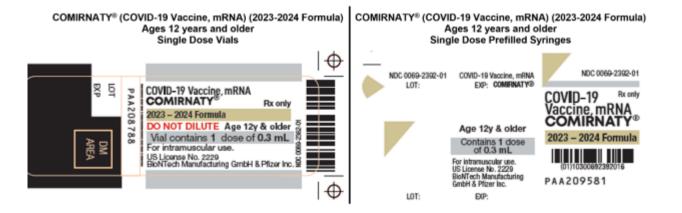
- UNPUNCTURED VIALS
 - Store in **Refrigerator 2°C and 8°C (36°F and 46°F)** for up to 30 days
 - Store in Freezer -50°C and -15°C (-58°F and 5°F) until the expiration date
 - Unpunctured vials may be held between 8°C and 25°C (46°F and 77°F) for a total of 24 hours.
- **DO NOT** refreeze thawed vaccine
- No Dilute necessary

Moderna

- Vial Expiration Checker
- Moderna COVID-19 Vaccine | CDC
- Moderna COVID-19 Vaccine: Transporting Vaccine (cdc.gov)

Pfizer-BioNTech





Pfizer-BioNTech

- UNPUNCTURED VIALS
 - Store in **Refrigerator** for up to 10 weeks
 - Store in **Ultra-Cold Freezer** until the expiration date
 - **DO NOT** store in a regular freezer
 - Unpunctured vials may be held between 8°C and 25°C (46°F and 77°F) for a total of 12 hours.
- PUNCTURED VIALS
 - Up to 12 hours
- Vaccines and diluents must be unpacked, stored at recommended temperatures, and documented immediately after arrival.
- Frozen vaccine must be thawed prior to use. Thaw vaccine between 2°C and 8°C (36°F and 46°F) or between 8° C and 25° C (46° F and 77° F). The amount of time needed to thaw vaccine varies based on the temperature and number of vials.

	Pfizer-BioNTech COVID-19 Vaccine (2023-2024 Formula) DILUTE BEFORE USE	Pfizer-BioNTech COVID-19 Vaccine (2023-2024 Formula) D0 NOT DILUTE
Age Group	6 months through 4 years ^a	5 through 11 years ^a
Cap Color & Label Cap colors and labels with matching borders	FelioNTech COVID-19 2023 - 2024 Formula TE PRIOR TO USE Age for Visition - 3 doses of 0.3 m Endor Emergency Use Author Statuscular use. Contains no pre- sudde Emergency Use Author Statuscular use. Contains no pre- sudde Emergency Use Author Thom To USE Age formula Thom To USE Age for the USE Age formula Thom To USE Age for the USE Age for t	Blue Blue Blue Blue Blue 2023 - 2024 Formula Not DILUTE Age 5y too Contains 1 dose of 0.3 Becular use. Blue
Dose	3 mcg	10 mcg
Dose Volume	0.3 mL	0.3 mL
Dilution	1.1 mL⁵	DO NOT DILUTE
Doses per Vial	Multiple Dose Vial ^{c,d} : 3 doses per vial (after dilution)	Single Dose Vial e: 1 dose per vial
	Storage Conditions	
Ultra-Low-Temperature (ULT) Freezer [-90 °C to -60 °C (-130 °F to -76 °F)]	12 months ^e	12 months ^e
Freezer [-25 °C to -15 °C (-13 °F to 5 °F)]	DO NOT STORE	DO NOT STORE
Refrigerator [2 °C to 8 °C (35 °F to 46 °F)]	10 weeks	10 weeks
Room Temperature [8 °C to 25 °C (46 °F to 77 °F)]	12 hours prior to first puncture ^{f,g}	12 hours prior to use ^f
After First Puncture [2 °C to 25 °C (35 °F to 77 °F)]	Discard 12 hours after dilution. ^e	N/A

	DO NOT DILUTE	PREFILLED SYRINGE	
Age Group	12 years and older	12 years and older	
Cap Color & Label Cap colors and labels with matching borders	D-19 Vaccine, mRNA 2023 - 2024 Formula 2023 - 2024 Formula 2024 Formula 2024 Formula 2024 Formula 2024 Formula 2024 Formula 2024 Formula 2025 Formu	NDC 0069-2392-01 COVID-19 Vaccine, mRNA LOT: COVID-19 Vaccine, mRNA EXP: COMIRNATY® NDC 0069-2392-01 COVID-19 Rx only Recently Cover 19 Vaccine, mRNA COVID-19 Rx only	
Dose	30 mcg	30 mcg	
Dose Volume	0.3 mL	0.3 mL	
Dilution	DO NOT DILUTE	N/A	
Doses per Vial/Syringe	Single Dose Vial ^a	Single Dose Prefilled Syringe ^b	
	Storage Conditions		
Ultra-Low-Temperature (ULT) Freezer [-90 °C to -60 °C (-130 °F to -76 °F)]	18 months ^c	9 months°	
Freezer [-25 °C to -15 °C (-13 °F to 5 °F)]	DO NOT STORE DO NOT STORE		
Refrigerator [2 °C to 8 °C (35 °F to 46 °F)]	Up to 10 weeks	Up to 10 weeks	
Room Temperature [8 °C to 25 °C (46 °F to 77 °F)]	A total of 12 hours	Refer to product labeling ^d	
After Puncture [2 °C to 25 °C (35 °F to 77 °F)]	N/A	N/A	

Pfizer-BioNTech

- Pfizer-BioNTech COVID-19 Vaccines | CDC
- Expiry checker
- Pfizer Transportation Guide
- Pfizer Storage and Handling-Label
- <u>Pfizer-BioNTech COVID-19 Vaccine: Storage and Beyond-Use Date Tracking</u>
 <u>Labels (cdc.gov)</u>
- <u>Pfizer-BioNTech COVID-19 Vaccine: Transporting Vaccine for Vaccination</u> <u>Clinics Held at Satellite, Temporary, or Off-Site Locations Procedure (cdc.gov)</u>

Ultra Cold Storage Considerations

- Use a DDL with and air probe or probe designed specifically for ultra cold temperatures
- Diluent will arrive in a separate shipment

Wasting/Clearing out Unauthorized COVID-19 Vaccine

Log into WA IIS:

- Expand Lot Numbers tab
- Select Reconciliation
- Please report these unused doses as waste in the IIS using
 - Physical inventory insert 0
 - Category select Expired
 - Reason select Open Multidose Vial
 - Scroll down to bottom and select save

*If you have inventory showing 0, select box stating inactive on right side, scroll to bottom and select save(this will remove from inventory list)

Please discard unused vaccines according to your local medical waste guidelines

Knowledge Check #2



Childhood Vaccine Program Main Contact Information <u>WAChildhoodVaccines@doh.wa.gov</u> Phone: (360)236-2829 Fax: (360)236-3811

Additional Resources

Resources

- Storage and Handling Summary Documents
 - <u>Pfizer</u>
 - <u>Moderna</u>
 - <u>Novavax</u>
- CDC Vaccine Storage and Handling Toolkit
 - <u>https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html</u>
- Training and Education
 - <u>https://www.cdc.gov/vaccines/covid-19/training-education/index.html</u>
- Vaccine Adverse Event Reporting System
 - <u>https://vaers.hhs.gov/index.html</u>

CDC Resources

- How to report an adverse event to VAERS
 - Go to <u>vaers.hhs.gov</u> and submit a report online
 - For help call 1-800-822-7967, email info@vaers.org
 - Video instructions <u>https://www.youtube.com/watch?v=sbCWhcQADFE</u>
- How to contact CDC at CDC-INFO
 - Go to https://www.cdc.gov/cdc-info/index.html
 - Call 1-800-CDC-INFO (1-800-232-4636)
- Safety Information resources
 - <u>https://www.cdc.gov/vaccinesafety/ensuringsafety/monitoring/vaers/index.html</u>
 - <u>https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety.html</u>

Provider Education Resources

- <u>2023-2024 COVID-19 Vaccine Product Characteristics and Information (wa.gov)</u>
- What is a Vaccine Expiration Date? TRAIN Learning Network
- What is a Vaccine Beyond-Use Date or Time? TRAIN Learning Network
- <u>The Difference Between a Vaccine Expiration Date and Beyond-Use Date or Time</u> (BUD) - TRAIN Learning Network
- How to Report Wastage of the COVID-19 Vaccine in IIS



To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email civil.rights@doh.wa.gov.

DOH 348-994 October 2023