

2026- 2027 Respiratory Season Immunization Updates and Recommendations: Storage and Handling

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Brand/trade names are used throughout this presentation for clarity and identification purposes only.

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2026-2027 Products - Influenza



Product	Route of Administration	Type	Presentation	Age Indication
Fluarix®	IM	Egg-based IIV3	Single-dose prefilled syringe	≥ 6 months
FluLaval®	IM	Egg-based IIV3	Single-dose prefilled syringe	≥ 6 months
Fluzone®	IM	Egg-based IIV3	Single-dosed prefilled syringe or multidose vial	≥ 6 months

2026-2027 Products - Influenza



Product	Route of Administration	Type	Presentation	Age Indication
Fluzone® – High Dose	IM	Egg-based IIV3	Single-dose prefilled syringe	≥ 65 years
Fluad®	IM	Egg-based, adjuvanted IIV3	Single-dose prefilled syringe	≥ 65 years

2026-2027 Products - Influenza



Product	Route of Administration	Type	Presentation	Age Indication
Flublock®	IM	Recombinant (egg-free) (RIV3)	Single-dose prefilled syringe	≥ 9 years
Flucelvax®	IM	Cell-based (egg-free)	Single-dosed prefilled syringe	≥ 6 months
FluMist®	Intranasal	Live attenuated, intranasal	Manufacturer—filled nasal sprayer	2 – 49 years
mFLUSIVA®	IM	mRNA	Prefilled syringe	≥ 50 years

2026-2027 Products – COVID-19



Product	Route of Administration	Type	Presentation	Age Indication
Comirnaty®	IM	mRNA	Single-dose prefilled syringe or single-dosed vial	≥ 65 years, or 5-64 years & high-risk
Spikevax®	IM	mRNA	Single-dosed prefilled syringe	≥ 65 years, or 6 months-64 years & high-risk
mNEXSPIKE®	IM	mRNA	Single-dose prefilled syringe	≥ 65 years, or 12-64 years & high-risk
Nuvaxovid®	IM	Protein subunit, adjuvanted	Single –dose vial	≥ 65 years, or 12-64 years & high-risk

2026-2027 Products – RSV



Product	Route of Administration	Type	Presentation	Age Indication
Arvexvy®	IM	Adjuvanted protein subunit	Two-vial kit, requires reconstitution	≥ 50 years
Abrysvo®	IM	Bivalent protein subunit	Vial and prefilled syringe kit, requires reconstitution	≥ 18 years, pregnant patients 32-36 weeks
mRESVIA®	IM	mRNA	Single-dose prefilled vial, no reconstitution needed	≥ 60 years

2026-2027 Products – RSV



Product	Route of Administration	Type	Presentation	Age Indication
Beyfortus® (nirsevimab-alip)	IM	Monoclonal antibody	Prefilled syringe – 50 mg or 100 mg (weight-based dosing)	Infants < 8 months; high-risk 8-19 months (2 nd season)
Enflonsia® (clesrovimab-cfor)	IM	Monoclonal antibody	Prefilled syringe, single fixed dose	Infants < 8 months (1 st season)

CDC Vaccine Storage and Handling Toolkit



Vaccine Storage and Handling Toolkit

With Key Resources and
Addendum for SNS-supplied Jynneos



Key Updates:

- Section 2 – Staffing and training
- Section 3 – Equipment
- Section 4 – Inventory Management
- Section 5 – Vaccine preparation

Centers for Disease Control and Prevention. *Vaccine Storage and Handling Toolkit*. Centers for Disease Control and Prevention; July 2026. Accessed September 6, 2026.

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

Standard Operating Procedures

CHECKLIST OF GENERAL INFORMATION

Up-to-date contact information for

- 
- ☐ Primary vaccine coordinator
 - ☐ Backup vaccine coordinator
 - ☐ Additional staff to assist in emergencies
 - ☐ Immunization program
 - ☐ Vaccine manufacturers
 - ☐ Refrigerator and freezer maintenance and repair companies
 - ☐ Temperature monitoring device (TMD) companies
 - ☐ Utility/power company
 - ☐ Vaccine storage unit alarm company (if applicable)
 - ☐ Generator repair company (if applicable)
 - ☐ Sources for qualified containers and packouts
 - ☐ Descriptions of the roles and responsibilities of the primary and backup vaccine coordinators
 - ☐ Information for each storage unit, including serial numbers, links to equipment websites, installation dates, and routine maintenance and repair records
 - ☐ Samples of all vaccine-related forms used in your facility
 - ☐ Protocols for staff education and training

CHECKLIST FOR NON-EMERGENCY VACCINE STORAGE, HANDLING, AND TRANSPORT

Protocols for

- 
- ☐ Ordering and accepting vaccine deliveries
 - ☐ Unpacking deliveries
 - ☐ Managing inventory
 - ☐ Storing each vaccine and diluent
 - ☐ Placing vaccines and diluents in storage units
 - ☐ Handling vaccines prior to administration
 - ☐ Disposing of vaccines and supplies
 - ☐ Monitoring storage unit and temperature
 - ☐ Maintaining storage equipment and TMDs
 - ☐ Responding to storage and handling problems
 - ☐ Transporting vaccines to off-site/satellite facilities

Vaccine Ordering - guidance

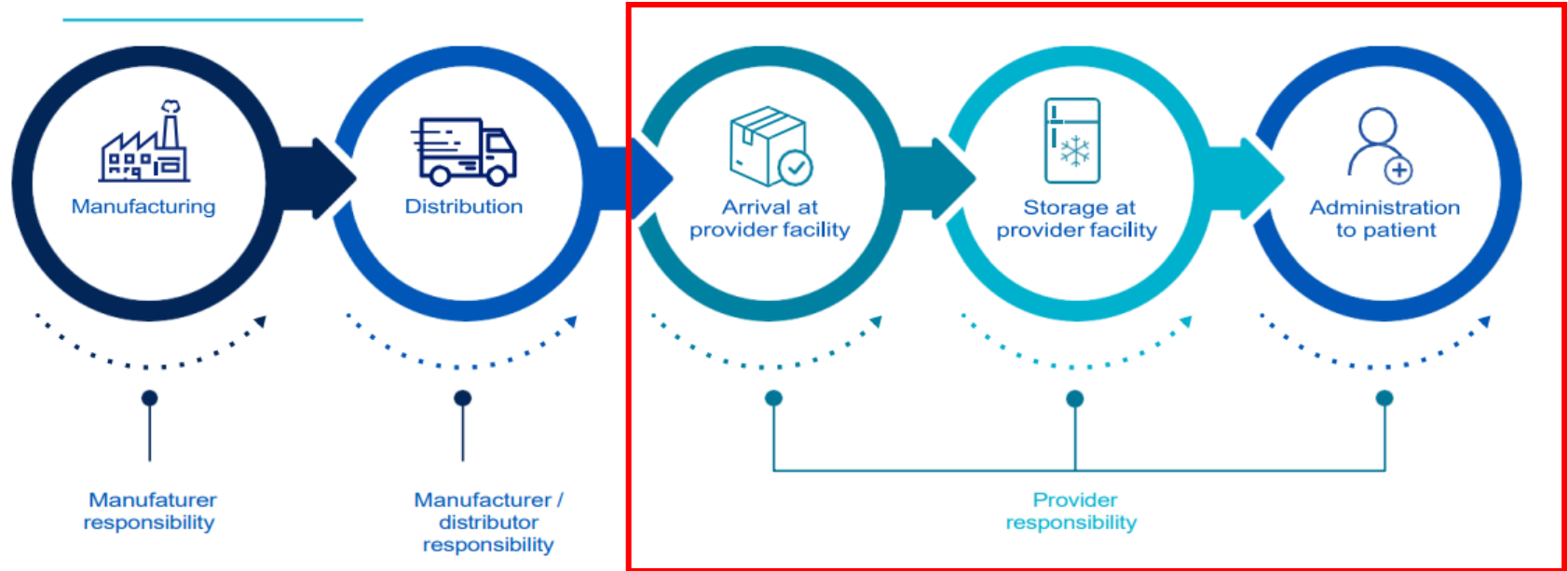
- As a general guide, reorder when inventory reaches a 4-week supply
- Order and stock only enough vaccine to meet patient needs

2026-2027 Respiratory Viral Seasons Vaccination Ordering

- Varies by ordering channel
- Patterns for this season:
 - RSV products – Ordering open
 - Influenza – Shipping has started
 - COVID-19 – Recently FDA approved, shipments TBD

Safe vaccine storage and handling

Vaccine Cold Chain Flowchart



Source: CDC

Which fridge / freezer is best?

1. Units that conform to National Sanitation Foundation/ American National Standards Institute (NSF/ANSI) Standard 456
2. Purpose-built units
3. Pharmaceutical-grade units
4. Household-grade units (for vaccine refrigeration only)

If a household-grade unit is used

Best Practices for Using Water Bottles in a Household-grade Unit

- Place water bottles on the top shelf, in the door racks, and on the unit floor of household-grade units. Doing so can help guard against temperature fluctuation caused by a power failure or frequent door opening and closing.
- Water bottles are not recommended for use with the majority of pharmaceutical-grade and purpose-built units. For such units, follow the manufacturer's guidance.



Storage Best Practices for Refrigerated Vaccines—Fahrenheit (F)

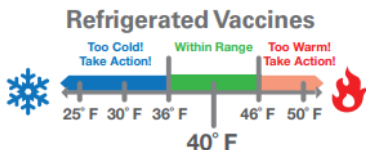
1 Unpack vaccines immediately



1. Place the vaccines in trays or containers for proper air flow.
2. Put vaccines that are first to expire in front.
3. Keep vaccines in original boxes with lids closed to prevent exposure to light.
4. Separate and label by vaccine type and public (VFC) or private vaccine.

2 Store vaccines at ideal temperature: 40° F

Never freeze refrigerated vaccines!
Exception: MMR can be stored in refrigerator or freezer



Report out-of-range temperatures immediately!

3 Use vaccine storage best practices



DO

- ✓ Do make sure the refrigerator door is closed!
- ✓ Do replace crisper bins with water bottles to help maintain consistent temperature.
- ✓ Do label water bottles "Do Not Drink."
- ✓ Do leave 2 to 3 inches between vaccine containers and refrigerator walls.
- ✓ Do post "Do Not Unplug" signs on refrigerator and near electrical outlet.

DON'T

- ✗ Don't use dormitory-style refrigerator.
- ✗ Don't use top shelf for vaccine storage.
- ✗ Don't put food or beverages in refrigerator.
- ✗ Don't put vaccines on door shelves or on floor of refrigerator.
- ✗ Don't drink from or remove water bottles.

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



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Storage Best Practices for Frozen Vaccines—Fahrenheit (F)

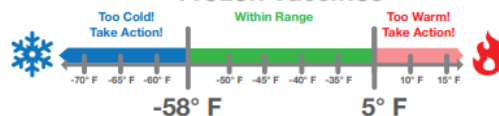
1 Unpack vaccines immediately



1. Place the vaccines in trays or containers for proper air flow.
2. Put vaccines that are first to expire in front.
3. Keep vaccines in original boxes with lids closed to prevent exposure to light.
4. Separate and label vaccines by type and public (VFC) or private.

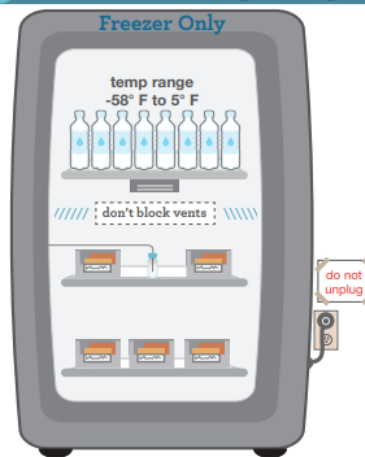
2 Thermostat should be at the factory-set or midpoint temperature setting

Frozen Vaccines



Report out-of-range temperatures immediately!

3 Use vaccine storage best practices



DO

- ✓ Do make sure the freezer door is closed!
- ✓ Do use water bottles to help maintain consistent temperature.
- ✓ Do leave 2 to 3 inches between vaccine containers and freezer walls.
- ✓ Do post "Do Not Unplug" signs on freezer and by electrical outlet.

DON'T

- ✗ Don't use dormitory-style refrigerator/freezer.
- ✗ Don't use combo refrigerator/freezer unit.
- ✗ Don't put food in freezer.
- ✗ Don't store vaccines on shelves in freezer door.

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

Refrigerated vs. Frozen



Influenza Vaccinations

All available products 2026-2027

Refrigerated (2°C to 8°C (36°F to 46°F). Do not freeze.

Refrigerated vs. Frozen



COVID-19 Vaccinations

Comirnaty® prefilled syringes	Refrigerated (2°C to 8°C (36°F to 46°F). Never freeze. Max 12 hours total time out of refrigeration before use.
Comirnaty® single-dose vials	Frozen or refrigerated. Ultra-low freezer: -90°C to -60°C (-130°F to -76°F); or thaw and refrigerate 2°C–8°C for up to 10 weeks
Spikevax®	Frozen; thaw before use. Thawed vials refrigerator stable up to 30 days
mNEXSPIKE®	Refrigerated, never frozen
Nuvaxovid®	Refrigerated, ready to use vial

Refrigerated vs. Frozen



RSV Immunization Products

Arexvy®	Refrigerated (2°C to 8°C (36°F to 46°F). Reconstituted vaccine: use within 4 hours (refrigerated or room temperature)
Abrysvo®	Refrigerated (2°C to 8°C (36°F to 46°F). Reconstituted vaccine: use within 4 hours (room temperature)
mRESVIA®	Frozen or refrigerated Frozen: -40°C to -15°C (-40°F to 5°F) — narrower than the standard vaccine freezer range; Refrigerated: up to 90 days; Room temp: up to 24 hrs

Refrigerated vs. Frozen



RSV Immunization Products

Monoclonal antibodies

Refrigerated (2°C to 8°C (36°F to 46°F). Do not freeze.

Beyfortus®: May be kept at 20°C to 25°C (68°F to 77°F) for a maximum of 48 hours. (Prior to August 2026 – 8 hours)

Enflonsia®: Remove prefilled syringe from refrigerator and allow to come to room temperature for ~15 minutes. May be kept at 20°C to 25°C (68°F to 77°F) for a maximum of 48 hours.

Best practices for vaccine storage

Best Practices for Vaccine Organization and Storage



- Rotate vaccine and diluent stock at least once a week, as well as each time the facility receives a vaccine delivery. This will ensure that vaccines expiring sooner are used first.
- Remove expired vaccine and diluent immediately from the

Best Practices for Vaccine Prep

Best Practices for Vaccine Preparation



Follow standards of medication administration:

- Use a designated, clean medication area that is not adjacent to areas where contaminated items are placed. For example, do not prepare vaccines in a specimen collection area.
- Follow strict aseptic medication preparation practices.
- Use a separate, sterile needle and syringe for each injection.
- Prepare vaccines for one patient at a time.
- Before preparing the vaccine, always check the
 - ☞ Vial to ensure it is the correct vaccine.
 - ☞ Expiration date and beyond-use date/time to ensure neither has passed.
- Prepare and draw up vaccines just before administration.
- Providers should administer vaccines they have prepared themselves. This is a quality control and patient safety issue, as well as a standard of medication administration.

Beyond Use Date (BUD)

The BUD is the last date or time a vaccine can be safely used after it has been

- Moved from one storage space (e.g., frozen to refrigeration)
- Prepared for administration (e.g., reconstituted)
- First punctured with a needle (for multidose vials)

Examples of products with BUD:

- Comirnaty®
- Spikevax®
- Arexvy®
- Abrysvo®
- mRESVIA®

Implications for pharmacists

- Pharmacists are permitted per W.Va. 15 CSR 12-5.2.2 to order and administer immunizations based on current CDC recommendations
 - Influenza: Pharmacists with an immunizing pharmacist permit in WV may order the 26/27 based on CDC vaccine schedule
 - 26/27 COVID-19 vaccine ages 3 years and up: Until new CDC recommendations come out for the 26/27 COVID-19, an individual prescription OR healthcare provider signed protocol will be needed

But... will my insurance pay for these vaccines?

Long story short... **yes** per America's Health Insurance Plans (AHIP)

Summary

- A notable update to this respiratory viral season's vaccine product composition is the addition of mFLUSIVA
- Notable updates to the storage and handling of to this respiratory viral season's vaccine products is the “never frozen” mNEXSPIKE, the narrower temperature range of mRESVIA, and the updated room temperature excursion time for Beyfortus®
- The CDC recently updated their Vaccine Storage and Handling Toolkit, which is an excellent resource
- The vaccine landscape remains dynamic – please refer to the latest package insert for individual products as updates to storage and handling may occur after this presentation

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