



West Virginia Immunization Network CME Training  
September 16, 2022

# West Virginia COVID-19 Vaccine Update

## Omicron (Bivalent) Booster Shots

**Krista D. Capehart, PharmD, MS, BCACP, FAPhA**

WV Joint Interagency Task Force on COVID-19  
WV Board of Pharmacy  
WVU School of Pharmacy

**Lisa M. Costello, MD, MPH, FAAP**

WV Joint Interagency Task Force on COVID-19  
WV State Medical Association  
WVU School of Medicine

**Julia Daisy Fraustino, PhD**

WV Joint Interagency Task Force on COVID-19  
WVU Reed College of Media  
Public Interest Communication Research Lab, Media Innovation Center

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# + Objectives

At the conclusion of this program, participants will be able to:



1. State the CDC's recommendations for COVID-19 Omicron booster vaccination;



2. Describe clinical considerations for administering the Omicron COVID-19 booster vaccines; and



3. Understand and apply data-driven communication strategies for communicating with the public to boost COVID-19 vaccination confidence.





# + Roadmap

- General Overview / Eligibility & Recommendations
  - Pfizer Omicron (Bivalent) Boosters for ages 12 years and older
  - Moderna Omicron (Bivalent) Boosters for ages 18 years and older
- Additional Clinical Considerations
- Communication & Other Resources



# + Two products authorized for emergency use as boosters only

 The FDA authorized, Advisory Committee on Immunization Practices (ACIP) voted, and CDC recommended **Pfizer-BioNtech COVID-19 Vaccine, Bivalent** (“Omicron booster shot”) as a **booster only** for ages 12 years and older.

 The FDA authorized, Advisory Committee on Immunization Practices (ACIP) voted, and CDC recommended **Moderna COVID-19 Vaccine, Bivalent** (“Omicron booster shot”) as a **booster only** for ages 18 years and older.



# + Updated Omicron Booster Updates



Updated COVID-19 boosters are **bivalent**: they are based on the original strain of SARS-CoV-2 *and* the Omicron BA.4 and BA.5 subvariants.




This booster helps the immune system restore protection that may have waned since previous vaccination by **targeting Omicron variants that are prevalent and highly transmissible in our communities** at this time.



# New EUA replaces previous EUA for boosters in ages 12 years and older

 Original (monovalent) mRNA COVID-19 vaccines are no longer authorized as boosters for ages 12 years and older.

 Omicron (bivalent) boosters are the **only** vaccines authorized as boosters for ages 12 years and older.

 Original (monovalent) mRNA COVID-19 vaccines are still authorized and recommended as the primary series for ages 6 months and older.



# + Note on Terminology

- ✓ Several terms being used across national, state, and local networks to refer to the Omicron/bivalent/updated/Fall boosters.
- ✓ CDC clinical considerations, some box/vial labels, and portions of the EUA refer to them is “Bivalent.”
  - CDC refers to the original vaccine as “monovalent.”
- ✓ “Bivalent” and “monovalent” not easily recognized by the public.
- ✓ **Consider using more common language (i.e., bivalent = Omicron, updated; monovalent = original) when discussing options with patients.**





# Bivalent (Omicron) Boosters

Eligibility & Recommendations

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# + Omicron (Bivalent) Booster Recs



Everyone ages 12 years and older is recommended to receive **one** age-appropriate bivalent mRNA booster dose **at least 2 months after** completion of a **primary series** of any authorized/approved COVID-19 vaccine *or* last monovalent booster.

- Cannot get bivalent booster without first completing at least a primary series (age-appropriate Pfizer, Moderna, Novavax, J&J).
- Age-appropriate homologous and heterologous boosters allowed; there is no preference.
- At this time, no changes to schedules for children ages 6 months through 11 years.



# + Fall Booster “Reset”

- ✓ Change from dose counting to **1 bivalent booster for all eligible**
- ✓ If eligible, an Omicron (bivalent) booster should not be denied based on total number of doses

Vaccination history	→	Next dose
Primary series	At least 2 months →	1 bivalent booster dose
Primary series + 1 booster	At least 2 months →	1 bivalent booster dose
Primary series + 2 booster	At least 2 months →	1 bivalent booster dose

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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>





# Pfizer-BioNTech

Omicron (Bivalent) Booster for ages 12 years & older



Pfizer EUA: <https://bit.ly/PfizerOmicronEUA>

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# + Pfizer Bivalent Booster: Immunogenicity

## Immunogenicity: Pfizer bivalent booster, ages >55 years

- Superiority\* criterion met against Omicron BA.1 and non-inferiority criterion met against reference strain

Assay	Timepoint	Bivalent Vaccine OMI 30µg GMT (95% CI)	BNT162b2 30µg GMT (95%)	Vaccine group/BNT162b2 30µg GMR (95% CI)
		N=178	N=163	
SARS-CoV-2 neutralization assay—Omicron BA.1—NT50 (titer)	1 month post-dose	711.0 (588.3, 859.2)	455.8 (365.9, 567.6)	1.56 (1.17, 2.08)
		N=186	N=182	
SARS-CoV-2 neutralization assay—Reference strain—NT50 (titer)	1 month post-dose	5933.2 (5188.2, 6785.2)	5998.1 (5223.6, 6887.4)	0.99 (0.82, 1.20)

\*simple superiority criterion: the lower bound of the 95% CI for GMR is >1.0; non-inferiority criterion: the lower bound of the 95% CI for GMR is >0.67

[Vaccines and Related Biological Products Advisory Committee June 28, 2022 Meeting Presentation- Pfizer/BioNTech COVID-19 Omicron-Modified Vaccine Options \(fda.gov\)](https://www.fda.gov/oc/2022/06/28/vaccines-and-related-biological-products-advisory-committee-june-28-2022-meeting-presentation-pfizer/biontech-covid-19-omicron-modified-vaccine-options)

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# Pfizer-BioNTech COVID-19 Vaccines



## Monovalent Product



## Bivalent Product

<b>Authorized for ages</b>	12 years and older	12 years and older
<b>Authorized for doses</b>	Primary series doses	Booster doses
<b>Vial cap color</b>	Gray	Gray
<b>Dose (mRNA concentration)</b>	30 mcg	30 mcg (15 mcg original, 15 mcg Omicron BA.4/BA.5)
<b>Vaccine composition</b>	Monovalent—Original	Bivalent—Original and Omicron BA.4/BA.5
<b>Injection volume</b>	0.3 mL	0.3 mL
<b>Dilution required</b>	No	No
<b>Beyond-use date</b>	12 hours after puncture	12 hours after puncture
<b>Storage</b>	Ultra-cold freezer until expiration; Refrigerator (2°C-8°C) up to 10 weeks	Ultra-cold freezer until expiration; Refrigerator (2°C-8°C) up to 10 weeks

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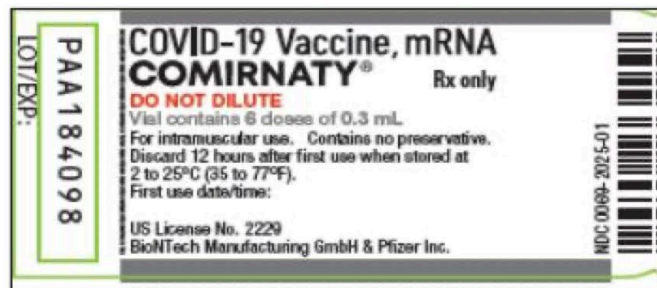
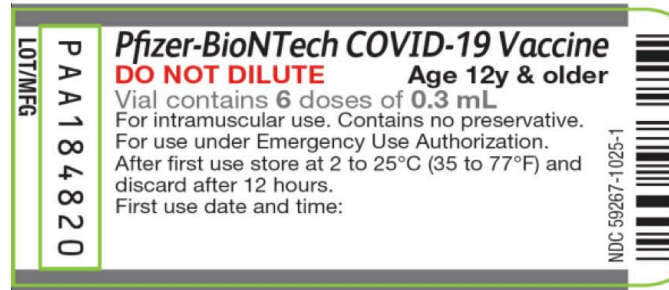
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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>

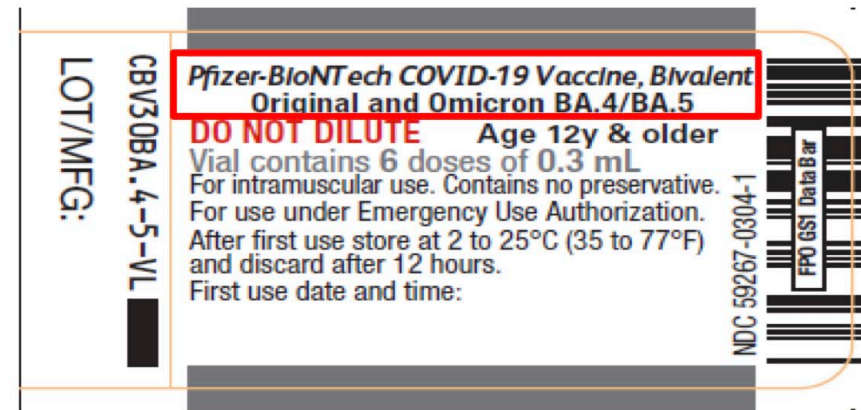


# + Pfizer-BioNTech COVID-19 Vaccine Labels

Monovalent label  
Primary series only  
Ages 12 years and older



Bivalent label  
Booster dose only  
Ages 12 years and older



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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>





# Moderna

Omicron (Bivalent) Booster for ages 18 years & older



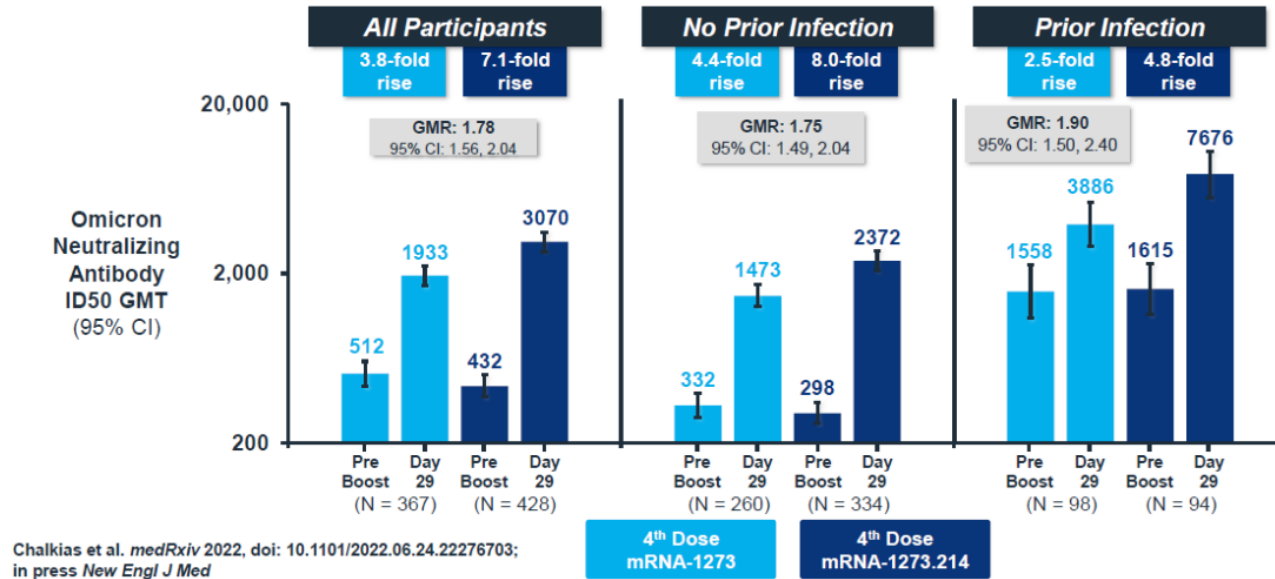
Moderna EUA: <https://bit.ly/ModernaOmicronEUA>

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# + Moderna Bivalent Booster: Immunogenicity

## Immunogenicity: Moderna bivalent booster



- Met superiority criteria\* in participants  $\geq 18$  years with or without evidence of infection on day 29

\*Superiority criterion: the lower bound of the 95% CI for GMR is  $>1.0$

<https://www.medrxiv.org/content/10.1101/2022.06.24.22276703v1.full.pdf> 31

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# + Moderna COVID-19 Vaccines



**Monovalent  
Product**



**Monovalent  
Product**



**Bivalent  
Product**

	Monovalent Product	Monovalent Product	Bivalent Product
<b>Authorized for ages</b>	12 years and older	6–11 years	18 years and older
<b>Vial cap color</b>	Red	Dark blue	Dark blue
<b>Label border color</b>	Light blue	Purple	Gray
<b>Dose (mRNA concentration)</b>	100 mcg (primary dose)	50 mcg (primary dose)	50 mcg (booster dose) <small>(25 mcg original, 25 mcg Omicron BA.4/BA.5)</small>
<b>Injection volume</b>	0.5 mL	0.5 mL	0.5 mL
<b>Dilution required</b>	No	No	No
<b>Beyond-use date</b>	12 hours	12 hours	12 hours
<b>Storage</b>	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days

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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>



# Moderna COVID-19 Vaccines



**Monovalent  
Product**



**Bivalent  
Product**

<b>Authorized for ages</b>	12 years and older	18 years and older
<b>Vial cap color</b>	Red	Dark blue
<b>Label border color</b>	Light blue	Gray
<b>Dose (mRNA concentration)</b>	100 mcg (primary dose)	50 mcg (booster dose) <small>(25 mcg original, 25 mcg Omicron BA.4/BA.5)</small>
<b>Injection volume</b>	0.5 mL	0.5 mL
<b>Dilution required</b>	No	No
<b>Beyond-use date</b>	12 hours	12 hours
<b>Storage</b>	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days

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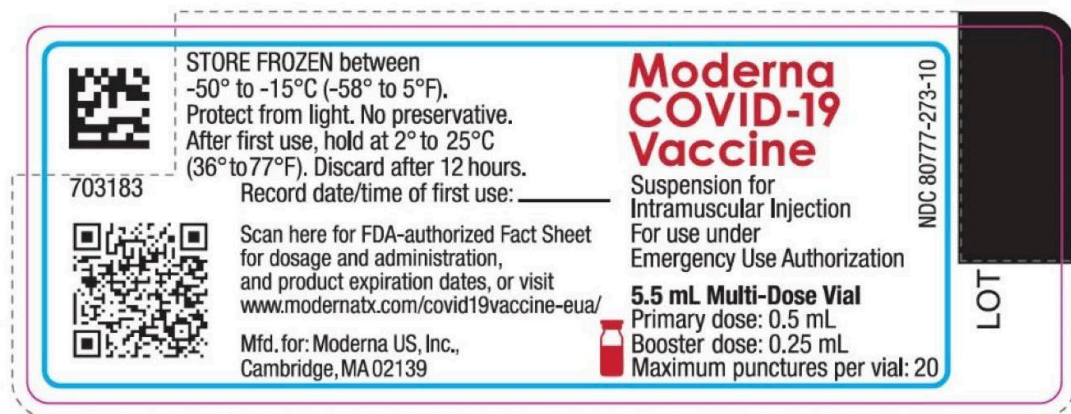
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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>

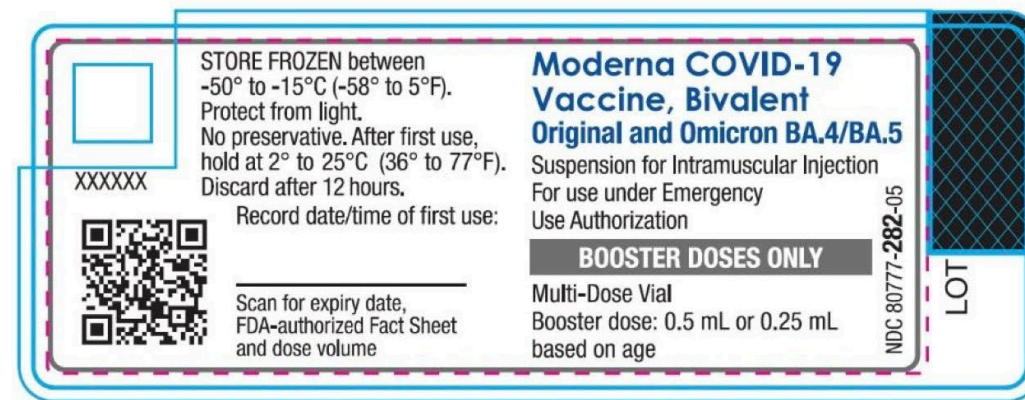


# + Moderna COVID-19 Vaccine Labels

Monovalent label  
Primary series only  
Ages 12 years and older



Bivalent label  
Booster dose only  
Ages 18 years and older



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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>



# Moderna COVID-19 Vaccines



## Monovalent Product



## Bivalent Product

<b>Authorized for ages</b>	6–11 years	18 years and older
<b>Vial cap color</b>	Dark blue	Dark blue
<b>Label border color</b>	Purple	Gray
<b>Dose (mRNA concentration)</b>	50 mcg (primary dose)	50 mcg (booster dose) (25 mcg original, 25 mcg Omicron BA.4/BA.5)
<b>Injection volume</b>	0.5 mL	0.5 mL
<b>Dilution required</b>	No	No
<b>Beyond-use date</b>	12 hours	12 hours
<b>Storage</b>	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days	Freezer (-15°C to -50°C) until expiration; Refrigerator (2°C to 8°C) up to 30 days

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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>



# + Moderna COVID-19 Vaccine Labels

Monovalent label  
Primary series only  
Ages 6–11 years



Despite label, do NOT use for booster doses

Bivalent label  
Booster dose only  
Ages 18 years and older



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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/09-COVID-Hall-508.pdf>





# COVID-19 Vaccine, Bivalent Omicron Booster Additional Clinical Considerations for ages 12 years & older

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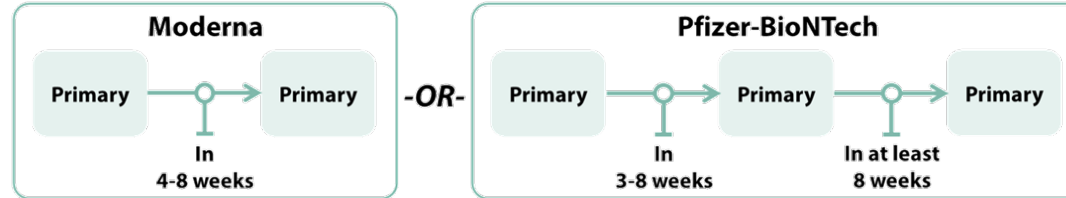
# Summary of COVID-19 Vaccine Schedule for Most People

<https://www.cdc.gov/vaccines/covid-19/images/COVID19-vaccination-schedule-most-people.png>

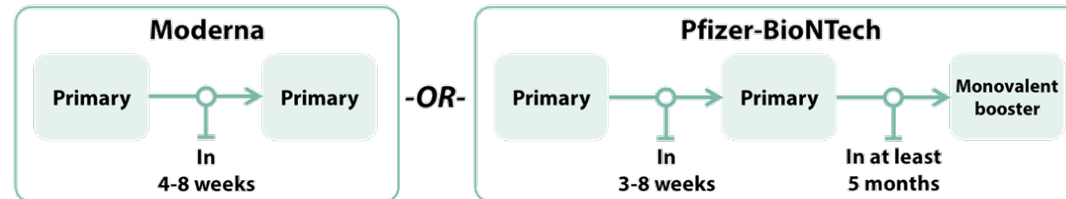
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## COVID-19 Vaccination Schedule for People who are NOT Moderately or Severely Immunocompromised

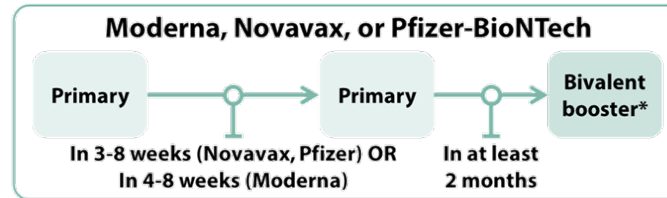
### People ages 6 months through 4 years



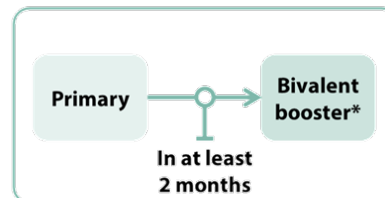
### People ages 5 through 11 years



### People ages 12 years and older



### People ages 18 years and older who previously received Janssen primary series dose<sup>†</sup>



\*The bivalent booster dose is administered at least 2 months after completion of the primary series. For people who previously received a monovalent booster dose(s), the bivalent booster dose is administered at least 2 months after the last monovalent booster dose.

<sup>†</sup>Janssen COVID-19 Vaccine should only be used in certain limited situations. See: <https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us-appendix.html#appendix-a>

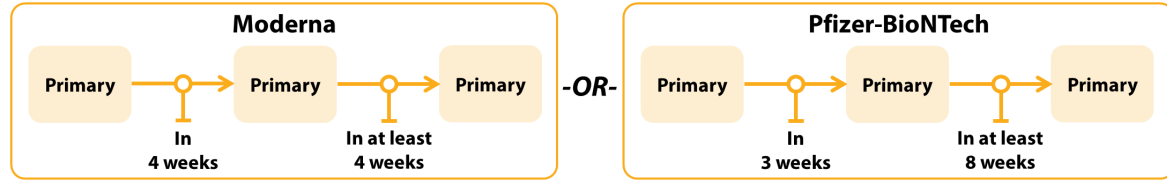




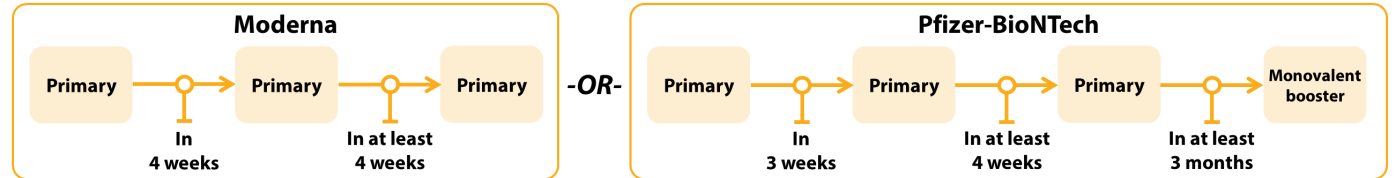
# Summary of COVID-19 Vaccine Schedule for Moderately to Severely Immunocompromised People

## COVID-19 Vaccination Schedule for People who are Moderately or Severely Immunocompromised

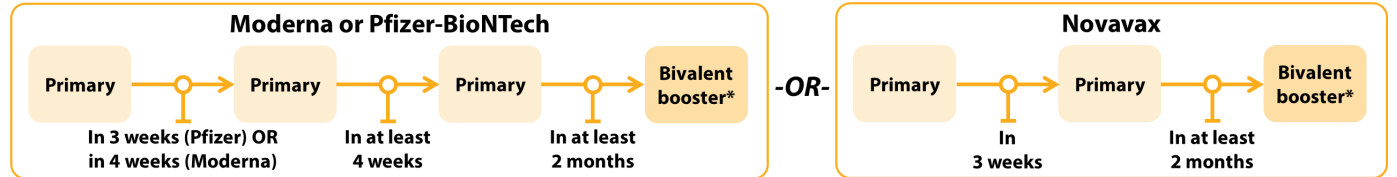
### People ages 6 months through 4 years



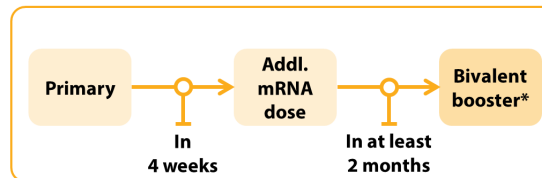
### People ages 5 through 11 years



### People ages 12 years and older

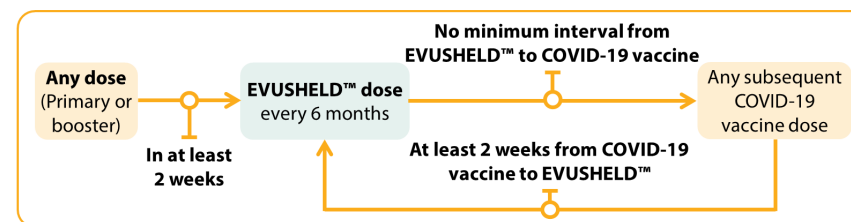


### People ages 18 years and older who previously received Janssen primary series dose<sup>†</sup>



## Monoclonal antibodies (EVUSHELD™) for COVID-19 pre-exposure prophylaxis

### People ages 12 years and older (must weigh at least 40kg)



<https://www.cdc.gov/vaccines/covid-19/images/COVID19-vaccination-schedule-immunocompromised.png>

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\*The bivalent booster dose is administered at least 2 months after completion of the primary series. For people who previously received a monovalent booster dose(s), the bivalent booster dose is administered at least 2 months after the last monovalent booster dose.

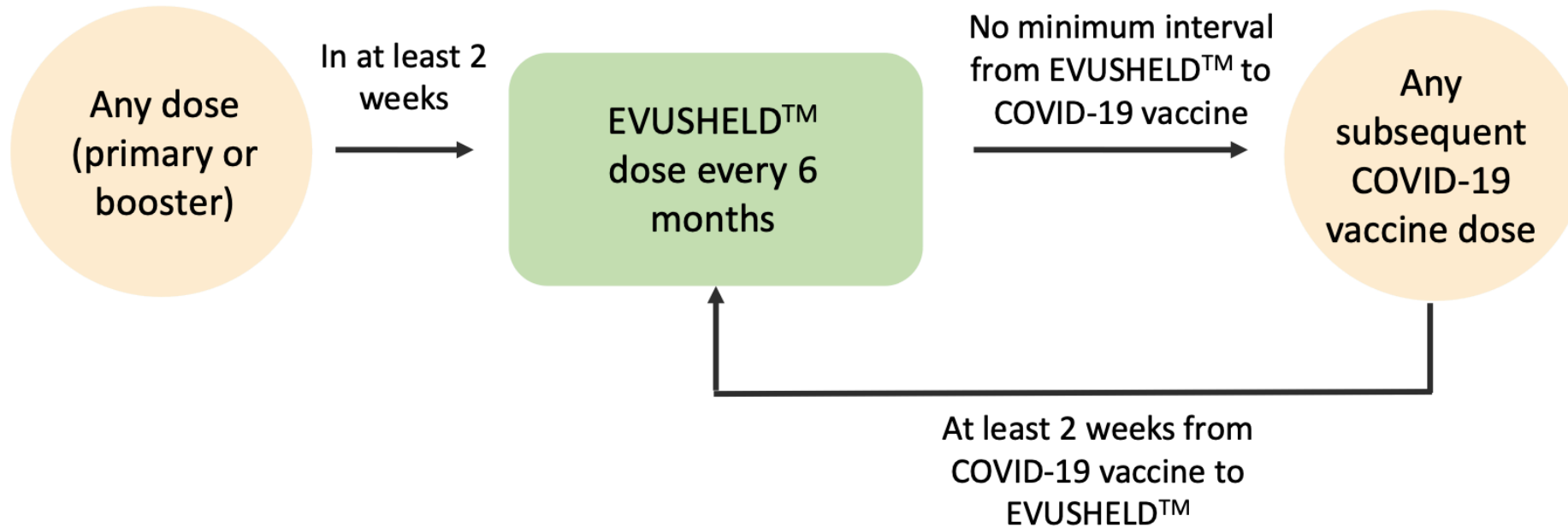
<sup>†</sup>Janssen COVID-19 Vaccine should only be used in certain limited situations. See: <https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us-appendix.html#appendix-a>



# + Supplementing COVID-19 vaccination with pre-exposure prophylaxis

## Monoclonal antibodies (EVUSHELD™) for COVID-19 pre-exposure prophylaxis

People ages 12 years and older (must weigh at least 40 kg)



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More on Evusheld in CDC Interim Clinical Considerations for Use of COVID-19 Vaccines: <https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html# covid19-vaccination-evusheld>



# Additional Considerations



## Coadministration

- Routine administration of all age-appropriate doses of vaccines **simultaneously** is recommended as CDC **best practice**.
- **Offer influenza and COVID-19 vaccines at same visit** for those eligible.
- Additional considerations for orthopoxvirus (Monkeypox) vaccine.



## Current/Prior SARS-CoV-2 Infection

- Defer any COVID-19 vaccination at least until recovery from the acute illness and criteria to discontinue isolation have been met.
- People who **recently** had SARS-CoV-2 infection **may** consider delaying COVID-19 vaccination **by 3 months** from symptom onset or positive test (if infection was asymptomatic). **Consider individual factors/risk.**

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<https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.htm>



# + Other Clinical Information



It is recommended that everyone ages 6 months and older stays up-to-date on COVID-19 vaccination.

- Staying up-to-date means completing a primary series and getting any booster shot(s) recommended by CDC.



Anticipated side effects:

- Local: pain, swelling, erythema at the injection site
- Systemic: fever, fatigue, headache, chills, myalgia, arthralgia, lymphadenopathy

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<https://bit.ly/C19cdcClinicalConsiderations>



# + Pfizer Bivalent Adverse Events

## Reactogenicity Profile of Bivalent Omicron BA.1 Variant Vaccine Candidate Overall Similar to Prototype BNT162b2 Vaccine

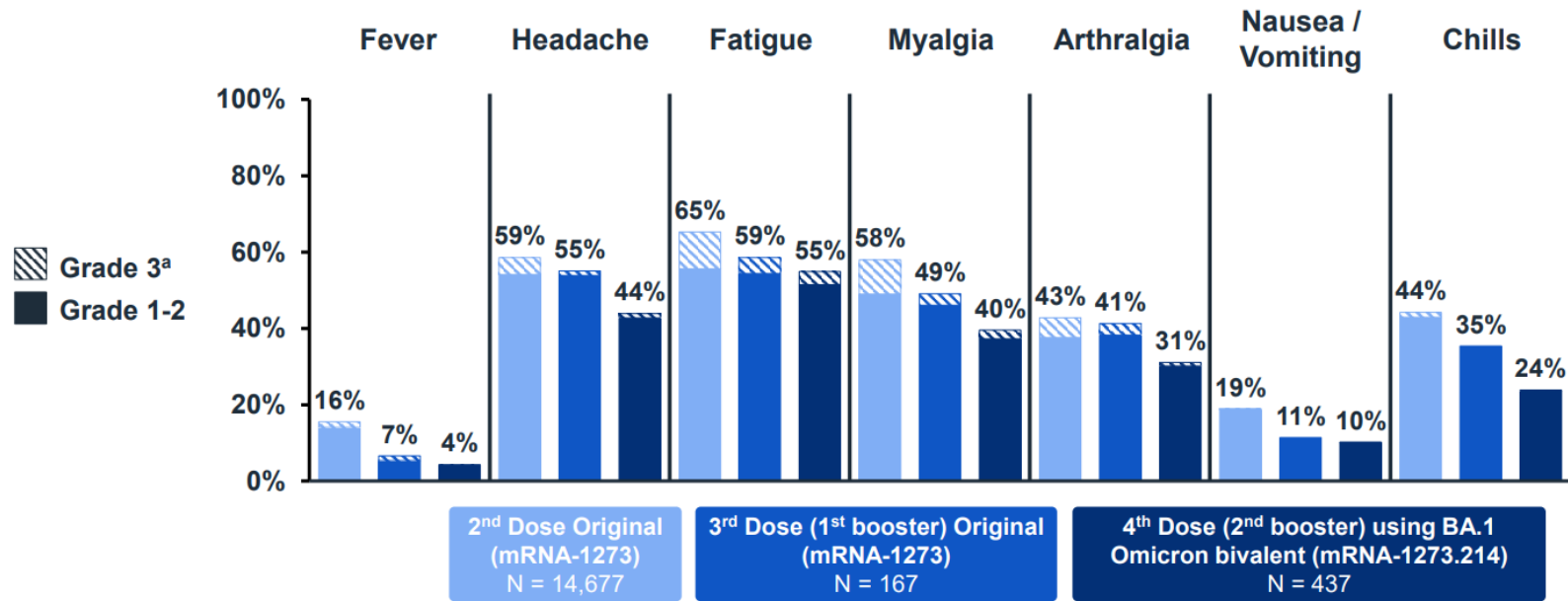
	C4591031 Substudy E <sup>a</sup> (>55y)	
	BNT162b2 30 µg	Bivalent OMI BA.1 30 µg
	Dose 4 (N=298)	Dose 4 (N=301)
<b>Local reaction at injection site</b>		
Pain	60.1%	58.1%
Swelling	6.0%	6.6%
Redness	6.4%	7.0%
<b>Systemic events</b>		
Fatigue	45.3%	49.2%
Headache	26.5%	33.6%
Muscle pain	19.8%	22.3%
Chills	16.4%	13.0%
Joint pain	9.1%	11.3%
Fever (≥38.0°C)	3.7%	5.0%
Vomiting	1.3%	1.7%
Diarrhea	4.4%	9.0%

a. BNT162b2-experienced participants (>55 years of age) who received BNT162b2 30 µg or BNT162b2 + BNT162b2 OMI BA.1 30 µg as a booster dose (Dose 4) approximately 5 to 12 months after their last dose (Dose 3).



# + Moderna Bivalent Adverse Events

**Systemic Reactogenicity of BA.1 Omicron Bivalent (mRNA-1273.214) as 4<sup>th</sup> Dose Generally Lower than 2<sup>nd</sup> Dose of Primary Series and 3<sup>rd</sup> Dose of mRNA-1273 in Adults**  
*Study 205, Safety Set*



Solicited systemic adverse reactions within 7 days after injection. a) Grade 4 systemic reactions only with 2<sup>nd</sup> dose of mRNA-1273 (<0.1%).

2<sup>nd</sup> dose mRNA-1273 (Baden et al, *NEJM*, 2021); 3<sup>rd</sup> dose mRNA-1273 (Choi et al, *Nat Med*, 2022); 4<sup>th</sup> dose mRNA-1273.214 (Chalkias et al. *medRxiv*, 2022; in press *New Engl J Med*)

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<https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/06-COVID-Miller-508.pdf>



# + Vaccine Adverse Event Reporting System (VAERS)



For reporting adverse events or administration errors for vaccines:  
**<https://vaers.hhs.gov>**

1. Must report to VAERS if error adverse event occurs, and
2. Contact WV COVID-19 Hotline **1-800-887-4304**, and further instructions will be provided by Dr. Elizabeth Scharman.

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## Follow TED to Avoid COVID-19 Vaccine Errors



### TYPE

- Are you using the recommended COVID-19 vaccine for this person?

### EXPIRATION

- Did you check the vial's expiration date?
- Is the vaccine within the usable time frame for the storage conditions?

### DOSE

- Is this the correct amount for the person's age, dose number, and vaccine type?
- Was the vaccine prepared correctly for the product type (diluted or not)?

For brand-specific COVID-19 vaccine info, visit the FDA:



If an error occurs:  
report on **[vaers.hhs.gov](https://vaers.hhs.gov)** and  
call the WV COVID-19 Hotline  
**1-800-887-4304**





# COVID-19 Vaccine Communication & Other Resources

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# + Boosting Vaccine Confidence



## You are most trusted and your recommendation matters

- #1 trusted source of COVID-19 health information among West Virginians
- A top trusted source among your family, friends, and communities

## Terminology note revisited

- As you know, word choice matters. For public:
  - **Bivalent booster** = greater barriers, more confusion, more negative attitudes, statistically lower vaccination intentions
  - **Omicron booster** = reduced barriers, less confusion, wider array of attitudes (including positive), statistically higher vaccination intentions

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Based on WV statewide data from WVU PIC Lab – contact [jdfraustino@mail.wvu.edu](mailto:jdfraustino@mail.wvu.edu)





# + Reminders: TO DO when Talking to Patients About COVID-19 Vaccines

- ✓ Start from a place of empathy and understanding
  - Listen first and fully, and ask to provide information
  - Know that it may take many conversations
- ✓ Help them find their reason(s) to get vaccinated
- ✓ Offer your recommendation
- ✓ Wrap up the conversation with openness and a call-to-action



# + Reminders: NOT TO DO when Talking to Patients About COVID-19 Vaccines

- ✓ **Don't repeat rumors, misinformation, or myths**  
DO shift from the specifics to the underlying concern  
(e.g., fertility/sterilization = vaccine safety)
- ✓ **Don't use "But"**  
DO use "Yes, and"
- ✓ **No fear, guilt, shame appeals** (no hint of judgment – including nonverbals)  
DO listen with empathy & space for questions
- ✓ **No overt persuasion, or even the perception of it**  
DO use evidence-driven facts and personal storytelling





# COVID-19 Vaccination Resources

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## Post To Timeline

### Step 1

Download the Assets



Download Image

### Step 2

Copy the Text

Are you up-to-date on your COVID-19 vaccines? That's the best way to protect yourself from getting really sick from COVID-19. To stay up-to-date: first, everyone ages 6 months and older needs a primary series (the initial shots that teach the body to recognize and fight the virus). Next, ages 5 years and older need to get boosted (booster shots help the body rebuild immunity). To find out if you're due for a COVID-19 shot, use the Vaccination Due Date Calculator at [vaccinate.wv.gov](https://vaccinate.wv.gov). #CommunityImmunityWV

Copy Text

### Step 3

Login to Facebook and post using the assets and text!

#### Want to post later?

Email this content to your mobile device to download & post. Recommended for iOS.

Email Address  SEND

\*To download videos, you must open this message in an email app, not a web browser.

Return to SPK



Many available in Spanish

## Post To Timeline

### Step 1

Download the Assets



Download Image

### Step 2

Copy the Text

Omicron booster shots are recommended for everyone ages 12 and older who completed the primary series (for most people that's the first two shots), and their most recent COVID-19 shot of any kind was at least 2 months ago. We are now offering COVID-19 Omicron booster shots to help boost your protection against the original virus and the variants most commonly spreading in our communities.

[User to insert additional clinic specifics in the caption here.]

Copy Text

### Step 3

Login to Facebook and post using the assets and text!

#### Want to post later?

Email this content to your mobile device to download & post. Recommended for iOS.

Email Address  SEND

\*To download videos, you must open this message in an email app, not a web browser.

Return to SPK

[bit.ly/C19SPK](https://bit.ly/C19SPK)

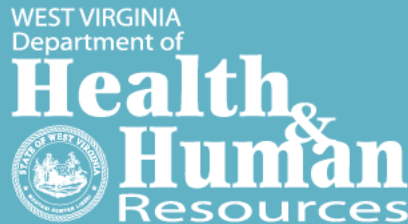


VACCINATE.WV.GOV  
#CommunityImmunityWV

# COVID-19 VACCINATION

## Due Date Calculator

*Available online at*  
**[vaccinate.wv.gov](https://vaccinate.wv.gov)**



# Step 1: Visit Vaccinate.WV.gov & scroll down

## COVID-19 Vaccination Due Date Calculator

**Welcome to the COVID-19 Vaccination Due Date Calculator.**

With the ever-changing nature of the virus that causes COVID-19, clear information about vaccination and how to stay protected is important. The purpose of this tool is to make it easier for you to stay up to date on your COVID-19 vaccination.

**Responses entered into this tool are not visible to, and are not stored by, the West Virginia state entities managing this application.** It is run on the user's web browser and is solely to provide information to the user and no other individual or entity.

In the upcoming pages, you will see:

- **Introductory information** (such as a reminder to get your COVID-19 Vaccination Card if you have one)
- **Disclaimer information** (such as what the tool is and isn't)
- **Questions** (only those required to calculate your COVID-19 vaccination due date)
- **When you may become due** for a COVID-19 vaccine shot (and for **what type**)
- A medical information **page for healthcare professionals** at the end

*Last updated on Sep 2, 2022.*

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# Step 2: View Welcome/Disclaimer

## COVID-19 Vaccination Due Date Calculator

This calculator is a tool that can be used to determine when you may be due for a COVID-19 vaccine. To do so, please fill in the following information for yourself (or, if you are the authorized guardian/caregiver using this tool for someone else, fill it in that person's information).

If you have had any previous COVID-19 shots, please have your COVID-19 Vaccination Card handy.

The tool's questions will ask about:

- birthdate,
- type and number of COVID-19 shots received (if any),
- whether you are considered moderately to severely immunocompromised,
- the date of the most recent COVID-19 shot

This will let the tool calculate for you if/when you may be due for a COVID-19 vaccine. At the end of the tool, you will receive additional information about what type of vaccines are recommended for you.

This is meant as an individual education tool and not to replace licensed medical advice. **Change, so please check back periodically.**

More information about the purpose and limitations of this tool is near the bottom of the page.

## CVDD Calculator Disclaimer

This tool is a product of the WV Governor's Joint Interagency Task Force for COVID-19 and the WV Department of Health and Human Resources' Bureau for Public Health.

This tool is based on [U.S. COVID-19 vaccination guidelines](#) and was last updated Fri, Sep 2, 2022.

The information contained in this product is not intended to be, nor should it be used as, a substitute for the exercise of professional judgement by a licensed healthcare provider.

This tool does not account for all possible medical situations. The West Virginia state partners who manage this tool have strived to use best efforts to accurately convey immunization recommendations for COVID-19 vaccines, but cannot guarantee whether it is outdated, incomplete, or accurate in all cases.

This tool is to be used as a method **for individuals to simplify and customize complex medical information** in a general way to determine when the user may be due for another shot to stay up to date on COVID-19 vaccination, and it does not constitute, or substitute for, licensed medical practice.

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# Step 3: Make Selections

## COVID-19 Vaccination Due Date Calculator

1. What is your birthdate? (Please enter as mm/dd/yyyy or select from the calendar.)

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# Birthdate





# Step 3: Make Selections

## COVID-19 Vaccination Due Date Calculator

2. Have you had a COVID-19 vaccine shot before?

Yes

How many COVID-19 shots have you received?

3

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## Previous COVID-19 Shots (if any)



# Step 3: Make Selections

## COVID-19 Vaccination Due Date Calculator

3. What type of vaccine was your first COVID-19 shot?

- ✓ Pfizer
- Moderna
- Johnson & Johnson
- Novavax
- Unsure
- Other (such as outside of the U.S.)

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FIRST COVID-19 Vaccine Type



# Step 3: Make Selections

## COVID-19 Vaccination Due Date Calculator

### 4. Are you considered moderately to severely immunocompromised (see definition below)?

Being immunocompromised in certain ways affects the number of shots a person may need to build adequate immune response for protection against COVID-19.

You may be considered as moderately or severely immunocompromised in the COVID-19 vaccination context if you have:

- Been receiving active cancer treatment for tumors or cancers of the blood
- Received an organ transplant and are taking medicine to suppress the immune system
- Received a stem cell transplant within the last 2 years or are taking medicine to suppress the immune system
- Moderate or severe primary immunodeficiency (such as DiGeorge syndrome, Wiskott-Aldrich syndrome)
- Advanced or untreated HIV infection
- Active treatment with [high-dose corticosteroids or other medications](#) that may suppress the immune response

✓ No

Yes

Unsure

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# Immunocompromised



# Step 3: Make Selections

## COVID-19 Vaccination Due Date Calculator

5. What was the date of your last (most recent) COVID-19 shot? (Please enter as mm/dd/yyyy or select from the calendar.)

Check the box if your most recent COVID-19 vaccination was an Omicron (Bivalent) booster (available as of Sept. 1, 2022)

The Omicron booster shot (bivalent) is the updated Fall 2022 booster that is based on the original virus and the Omicron BA.4/5 subvariants circulating in our communities at this time.

The original COVID-19 shots (monovalent) are the initial COVID-19 vaccines that were based on the original virus and started becoming authorized for use in December 2020.

[Unsure](#)

Previous

Finish

# Most Recent COVID-19 Shot (& Omicron?)



# Done! Get Your Due Date, Type & Stay Up-to-Date

## COVID-19 Vaccination Due Date Calculator

You are eligible for the **Pfizer or Moderna** COVID-19 Omicron booster shot ("bivalent"\*) on or after **Thu, September 1, 2022** 📅

Personal  
Calendar  
Reminder

Click here to schedule a COVID-19 vaccination appointment: <https://vaccines.gov/search>

**Schedule  
Vaccination**

Or, click the calendar icon above to add a reminder to your personal calendar that you are due for COVID-19 vaccination.

Important: Each type of COVID-19 vaccine is age-specific. When scheduling your or your loved one's vaccination, make sure that the provider carries the age-specific vaccine type. For more information on vaccines for each age group, click the Medical Info button below.

\***Omicron booster shots are referred to as "bivalent."** This means that the vaccine is updated to provide protection against multiple strains of the virus.

Please note that **you may need to look for "bivalent" "Omicron" or "updated"** as terms when scheduling your vaccination appointment, depending on the location and tool you are using. If you have any questions, contact a healthcare provider or the WV COVID-19 Vaccination Info Line at 1-833-734-0965.

Find Out When You Become Due for a Shot – and  
for What Type of COVID-19 Vaccine



# Reminder: “Medical Info” Page for Health Providers (or anybody who wants more in-depth info)

If you need help finding a COVID-19 vaccination location, including vaccination options for someone who is homebound, contact the West Virginia COVID-19 Vaccine Info Line at 1-833-734-0965.

Read COVID-19 vaccination FAQs, including more information on recommended vaccine types here: <https://dhhr.wv.gov/COVID-19/Pages/FAQs.aspx>

Medical Info

Start over

Click this button for a page that provides a summary of entries, clinical considerations & info links



# Medical Info (Summary & Clinical Considerations)

## COVID-19 Vaccination Due Date Calculator

To return to the previous page to review prior information, schedule a vaccination appointment, or add a vaccination reminder to your personal calendar, please click the browser Back button.

### Summary information

- DOB = June, 20, 1963
- First Vaccine Type = Pfizer
- Number of Doses = 3
- Immunocompromised = No
- Most Recent Shot = May, 12, 2022

Date Calculated: Thu, September 1, 2022

Recommended Vaccine Type: Pfizer or Moderna

Primary series manufacturer	Age group	Number of primary doses	Number of bivalent booster doses	Recommended bivalent booster dose†	Interval between 1st and 2nd primary dose*	Interval between primary series and booster dose‡
Moderna	18 years and older	2	1	Moderna or Pfizer-BioNTech	4 - 8 weeks	At least 2 months
Novavax	18 years and older	2	1	Moderna or Pfizer-BioNTech		
Pfizer-BioNTech	18 years and older	2	1	Moderna or Pfizer-BioNTech		

#### LINKS/RESOURCES:

For graphics depicting the dosing schedule by age and vaccine type for **most people** followed by for **moderately or severely immunocompromised people**, visit here: <https://bit.ly/C19VaxScheduleGlance>

For more detailed information about the immunization schedule and dosing, go here: <https://bit.ly/C19CDCSchedDosing>

For summary clinical considerations, go here: <https://bit.ly/C19CDCSummaryConsid>

For the full Interim Clinical Considerations for Use of COVID-19 Vaccines Currently Approved or Authorized in the United States, go here: <https://bit.ly/C19cdcClinicalConsiderations>

Clinical considerations for COVID-19 vaccination for those with current or prior SARS-CoV-2 infection: <https://bit.ly/C19VaxDuringAfterInfection>

Read COVID-19 vaccination FAQs in WV here: <https://bit.ly/C19VaxFAQ>

For more information about COVID-19 shots in West Virginia, visit <https://vaccinate.wv.gov>

#### VACCINE ADMINISTRATION ERROR PREVENTION:

Find tips for COVID-19 vaccine error prevention in WV and reporting requirements here: <https://bit.ly/C19ErrorPrevent>

Find FDA Wall Charts for Moderna and Pfizer to print and hang near your vaccine storage/handling below.

Moderna Wall Charts (scroll down to click on Wall Chart, after Fact Sheets): <https://bit.ly/C19ModernaFactSheets>

Pfizer Wall Charts (scroll down to click on Wall Chart, after Facts Sheets): <https://bit.ly/C19PfizerFactsWallCharts>

#### FDA FACT SHEETS:





**Embed the CVDD Calculator on your organization's website!**

Email [jic@wv.gov](mailto:jic@wv.gov) or use the link below for instructions



<https://bit.ly/WVCVDDCalcPartnerResources>

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Order posters, FAQs, lanyards/holders/buttons: [covidvaxwv.org/order](https://covidvaxwv.org/order)

**Estar al Día con las Vacunas Contra la COVID-19 es la Mejor Manera de Protegerse del Virus**

Consulte a su proveedor de atención médica hoy mismo si le corresponde recibir una vacuna contra la COVID-19.

Para obtener más información o para saber si le corresponde vacunarse contra la COVID-19, coloque la cámara de su teléfono inteligente sobre este código QR y haga clic en el enlace.

Más información: [vacunas.gov](https://vacunas.gov)  
 Línea directa de vacunación contra la COVID-19: 1-800-232-0233

**Staying Up-to-Date on COVID-19 Shots is the Best Way to Protect Against COVID-19**

**If you're immunocompromised, you're at greater risk for COVID-19 disease. You may need additional shots for protection.**  
 Ask your healthcare provider today if you're due for a COVID-19 shot.

For more information or to find out if you are due for a COVID-19 shot, hover over this QR code with your smartphone camera, tap on the link, and scroll down to the COVID-19 Vaccination Due Date Calculator.

Learn more: [vaccinate.wv.gov](https://vaccinate.wv.gov)  
 WV COVID-19 Hotline: 1-800-887-4304

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Learn more: [vaccinate.wv.gov](https://vaccinate.wv.gov)  
 WV COVID-19 Hotline: 1-800-887-4304

**Staying Up-to-Date on COVID-19 Shots is the Best Way to Protect You and Your Baby from COVID-19**

**Are you or your loved ones due for a COVID-19 shot?**

Talk to your healthcare provider today about COVID-19 vaccination.

For more information or to find out if you are due for a COVID-19 shot, hover over this QR code with your smartphone camera, tap on the link, and scroll down to the COVID-19 Vaccination Due Date Calculator.

Learn more: [vaccinate.wv.gov](https://vaccinate.wv.gov)  
 WV COVID-19 Hotline: 1-800-887-4304

For you. For your baby.

**Staying Up-to-Date on COVID-19 Shots is the Best Way to Protect Against COVID-19**

**Ask your healthcare provider today if you're due for a COVID-19 shot.**

For more information or to find out if you are due for a COVID-19 shot, hover over this QR code with your smartphone camera, tap on the link, and scroll down to the COVID-19 Vaccination Due Date Calculator.

Learn more: [vaccinate.wv.gov](https://vaccinate.wv.gov)  
 WV COVID-19 Hotline: 1-800-887-4304

**Follow TED to Avoid COVID-19 Vaccine Errors**



- TYPE**
- Are you using the recommended COVID-19 vaccine for this person?
- EXPIRATION**
- Did you check the vial's expiration date?
  - Is the vaccine within the usable time frame for the storage conditions?
- DOSE**
- Is this the correct amount for the person's age, dose number, and vaccine type?
  - Was the vaccine prepared correctly for the product type (diluted or not)?

For brand-specific COVID-19 vaccine info, visit the FDA:



If an error occurs: report on [www.hhs.gov](https://www.hhs.gov) and call the WV COVID-19 Hotline 1-800-887-4304

West Virginia Health Human Resources

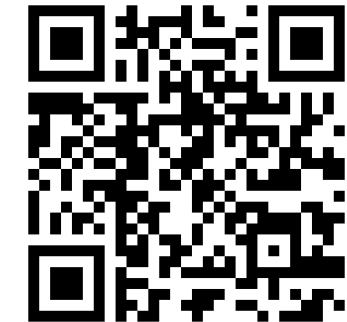
# + EUA Fact Sheets



The Fact Sheets for Healthcare Providers and Recipients/Caregivers for **Pfizer-BioNTech**: <https://bit.ly/C19PfizerFactSheets>



The Fact Sheets for Healthcare Providers and Recipients/Caregivers for **Moderna**: <https://bit.ly/C19ModernaFactSheets>



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Pfizer: <https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/comirnaty-and-pfizer-biontech-covid-19-vaccine>

Moderna: <https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/spikevax-and-moderna-covid-19-vaccine>



# Questions?



**Krista Capehart, PharmD, MS, BCACP, FAPhA**

[Krista.d.Capehart@wv.gov](mailto:Krista.d.Capehart@wv.gov)

304-206-5767



**Lisa M. Costello, MD, MPH, FAAP**

[lmcostello@hsc.wvu.edu](mailto:lmcostello@hsc.wvu.edu)



**Julia Daisy Fraustino, PhD**

[jdfraustino@mail.wvu.edu](mailto:jdfraustino@mail.wvu.edu) / [jic@wv.gov](mailto:jic@wv.gov)



**WV COVID-19 Hotline 1-800-887-4304**

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