Centers for Disease Control and Prevention Center for Preparedness and Response



COVID-19 Update: Clinical Guidance and Patient Education for Bivalent COVID-19 Vaccines

Clinician Outreach and Communication Activity (COCA) Call Tuesday, December 13, 2022

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Objectives

At the conclusion of today's session, the participant will be able to accomplish the following:

- 1. Discuss current data on effectiveness of COVID-19 vaccines.
- Review current recommendations for bivalent COVID-19 vaccines.
- 3. Describe strategies for communicating with patients about COVID-19 vaccination.

To Ask a Question

- Using the Zoom Webinar System
 - Click on the "Q&A" button
 - Type your question in the "Q&A" box
 - Submit your question
- If you are a patient, please refer your question to your healthcare provider.
- If you are a member of the media, please direct your questions to CDC Media Relations at 404-639-3286 or email media@cdc.gov

Today's Presenters

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LCDR, U.S. Public Health Service
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Updates on COVID-19 mRNA Vaccine Effectiveness

Ruth Link-Gelles, PhD, MPH

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Program Lead, COVID-19 Vaccine Effectiveness

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Centers for Disease Control and Prevention

Increasing Community Access to Testing (ICATT) Partnership: VE analysis for symptomatic infection

- Nationwide community-based drive-through COVID-19 testing via pharmacies
- Self-reported vaccine history at time of registration for COVID-19 testing; excluded those who
 did not report vaccination status
- Design: Test-negative, case-control analysis
- Population: Persons with ≥1 COVID-like symptom and nucleic acid amplification testing (NAAT); immunocompromised excluded

• Adjusted for:

- Demographics, social vulnerability index of the testing location, underlying conditions (presence versus absence), state of residence of person tested, pharmacy chain conducting the test, local incidence (cases per 100,000 by site zip code in the 7 days before test date), and date of testing
- Excluded individuals reporting a positive test <90 days prior to current test

Period for analysis:

- Tested: September 14, 2022 November 11, 2022
- Majority BA.4/BA.5 predominant period; included weeks when BQ.1, BQ.1.1, BF.7, etc. circulated

ICATT: <u>Absolute</u> VE against <u>symptomatic infection</u> for bivalent booster, by age group and number of monovalent COVID-19 vaccine doses — September–November 2022

Age group, years	Absolute VE (95% CI), by no. of monovalent doses received before the bivalent						
	vaccine dose						
	2 doses	3 doses	4 doses*	≥2 doses			
18–49 years	41 (31–49)	43 (39–46)	NA	43 (39–46)			
50-64 years	50 (35–61)	25 (17–33)	28 (20–34)	28 (22–33)			
≥65 years	32 (9–49)	19 (8–29)	23 (15–30)	22 (15–29)			

Absolute VE: Effectiveness of a bivalent booster received after 2, 3, or 4 monovalent doses compared with unvaccinated (i.e., receipt of no doses)

^{*} Immunocompetent persons aged <50 years were not eligible for a fourth monovalent (second booster) dose. VEs with CIs wider than 50 percentage points removed due to imprecision.

Link-Gelles, Ciesla, Fleming-Dutra, et al. MMWR https://www.cdc.gov/mmwr/volumes/71/wr/mm7148e1.htm

ICATT: Relative VE against <u>symptomatic infection</u> for bivalent booster dose by time since most recent monovalent dose, by age group and number of monovalent COVID-19 vaccine doses, September–November 2022

Age group/months since receipt of most recent monovalent dose	Relative VE (95% CI), by no. of monovalent doses received, by no. of monovalent doses received before the bivalent vaccine dose				
	2 doses	3 doses	4 doses*	≥2 doses	
18–49 years					
2–3 mos since receipt of most recent monovalent dose	45 (31–56)	24 (14–33)	N/A	30 (22–37)	
4–5 mos since receipt of most recent monovalent dose	47 (35–57)	41 (35–47)	N/A	43 (38–48)	
6–7 mos since receipt of most recent monovalent dose	42 (30–52)	47 (42–52)	N/A	46 (41–50)	
≥8 mos since receipt of most recent monovalent dose	53 (45–60)	58 (56–61)	N/A	56 (53–58)	
50-64 years					
2–3 mos since receipt of most recent monovalent dose	-	15 (-4-31)	33 (24–41)	31 (24–38)	
4–5 mos since receipt of most recent monovalent dose	44 (18–62)	31 (18–42)	36 (29–43)	36 (30–41)	
6–7 mos since receipt of most recent monovalent dose	46 (22–62)	36 (25–45)	40 (32–47)	38 (32–43)	
≥8 mos since receipt of most recent monovalent dose	61 (49–70)	51 (45–55)	N/A	48 (45–51)	
≥65 years					
2–3 mos since receipt of most recent monovalent dose			32 (23–40)	28 (19–35)	
4–5 mos since receipt of most recent monovalent dose		21 (1–36)	36 (29–42)	33 (27–39)	
6–7 mos since receipt of most recent monovalent dose		14 (-6-30)	40 (33–46)	36 (29–41)	
≥8 mos since receipt of most recent monovalent dose	45 (27–58)	42 (35–48)	N/A	43 (39–46)	

- RVE increases with longer time since last monovalent dose in comparison group
- Generally, VE is similar regardless of number of monovalent doses received.
- Overall, time since last monovalent dose in the comparison group matters more than number of doses

^{*} Immunocompetent persons aged <50 years were not eligible for a fourth monovalent (second booster) dose. VEs with CIs wider than 50 percentage points removed due to imprecision.

Link-Gelles, Ciesla, Fleming-Dutra, et al. MMWR https://www.cdc.gov/mmwr/volumes/71/wr/mm7148e1.htm

Self-Knowledge Check

- True/false: Number of doses matters more than time since last dose for VE.
 - A. True
 - B. False

Self-Knowledge Check

The correct answer is:

B. False

RVE of a bivalent booster dose after 2, 3, or 4 monovalent doses against symptomatic infection increases with longer time since last monovalent dose in comparison group. Generally, VE is similar regardless of number of monovalent doses received. Overall, time since last monovalent dose in the comparison group matters more than number of doses.

For more information, contact CDC 1-800-CDC-INFO (232-4636)

TTY: 1-888-232-6348 <u>www.cdc.gov</u>

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Bivalent COVID-19 Booster Recommendations and Coverage

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Centers for Disease Control and Prevention

COVID-19 Primary Series Vaccination Recommendations

 People ages 6 months and older are recommended to complete a primary series.

- Monovalent vaccines should be used for the primary series, with one EXCEPTION:
 - Children ages 6 months—4 years who received 2 doses of a monovalent Pfizer-BioNTech vaccine are authorized to receive a **bivalent Pfizer-BioNTech vaccine** as their third primary series dose.

COVID-19 Bivalent Booster Vaccination Recommendations

- People ages 6 months and older are recommended to receive a bivalent booster with one EXCEPTION:
 - Children 6 months—4 years who receive a 3-dose Pfizer-BioNTech
 primary series are not authorized to receive a booster dose at this
 time regardless of which Pfizer-BioNTech vaccine (i.e., monovalent or
 bivalent) was administered for the third primary dose.

COVID-19 Bivalent Booster Product Varies by Age

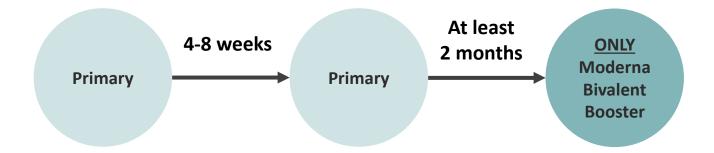
- Ages 6 months—4 years and completed the Moderna primary series:
 1 bivalent Moderna booster dose.
- Ages 6 months—4 years and completed Pfizer-BioNTech primary series:
 No booster dose is recommended at this time.
- Age 5 years and completed Moderna primary series:
 1 bivalent mRNA booster dose (Moderna or Pfizer-BioNTech)
- Age 5 years and completed Pfizer-BioNTech primary series:
 1 bivalent Pfizer-BioNTech booster dose.
- Ages 6 years and older and any primary series:
 1 bivalent mRNA booster dose (Moderna or Pfizer-BioNTech)



Pediatric Schedule: Ages 6 months-4 Years

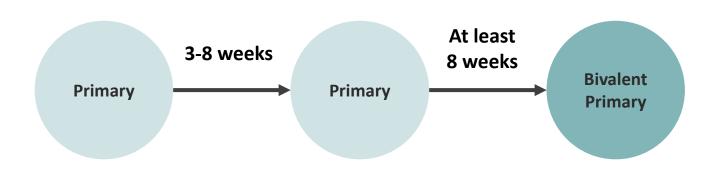
Ages 6 months— 4 years

(Primary Series: Moderna)



Ages 6 months— 4 years

(Primary Series: Pfizer-BioNTech)

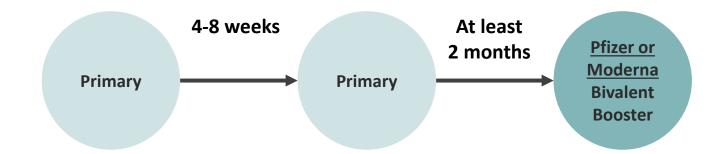




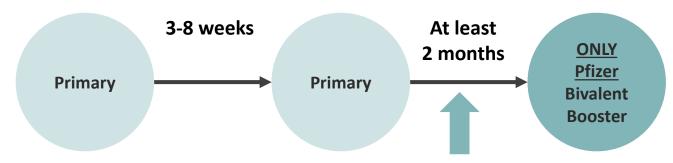


Pediatric Schedule: Age 5 Years

Age 5 years (Primary Series: Moderna)



Age 5 years (Primary Series: Pfizer-BioNTech)

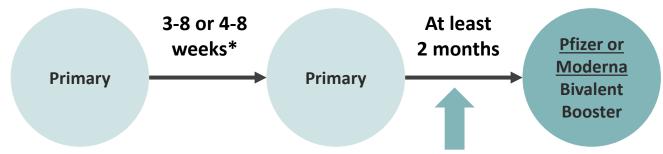


Regardless of previous monovalent booster doses given



Pediatric Schedule: Ages 6–11 Years

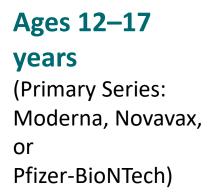
Ages 6–11 years (Primary Series: Moderna or Pfizer-BioNTech)

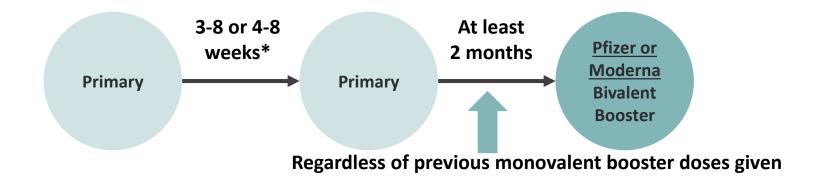


Regardless of previous monovalent booster doses given



Pediatric Schedule: Ages 12-17 Years



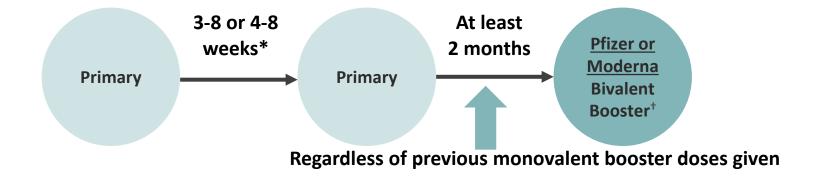




Adult Schedule: Ages 18 Years and Older

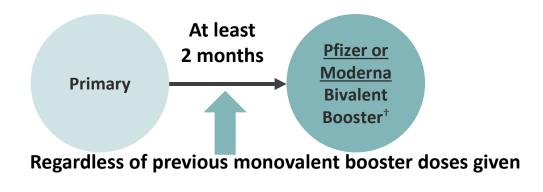
Ages 18 years and older

(Primary Series: Moderna, Novavax, or Pfizer-BioNTech)



Ages 18 years and older

(Primary Series: Janssen)



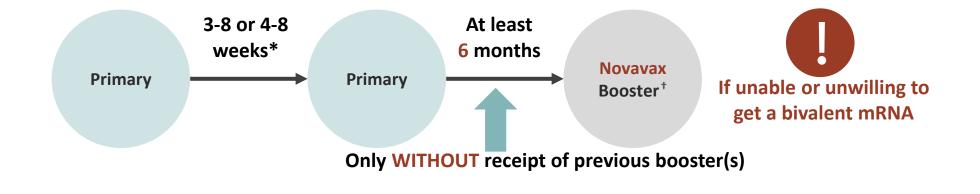
^{*3-8} week interval for Novavax and Pfizer-BioNTech; 4-8 week interval for Moderna † A monovalent Novavax booster dose (instead of a bivalent mRNA booster dose) may be used in limited situations in people ages 18 years and older who are unable to receive an mRNA vaccine (i.e., contraindicated) or unwilling to receive an mRNA vaccine and would otherwise remain unvaccinated. The Novavax booster dose is administered at least 6 months after completion of a primary series.



Adult Schedule: Ages 18 Years and Older

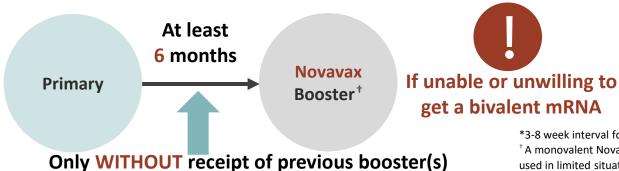
Ages 18 years and older

(Primary Series: Moderna, Novavax, or Pfizer-BioNTech)



Ages 18 years and older

(Primary Series: Janssen)



*3-8 week interval for Novavax and Pfizer-BioNTech; 4-8 week interval for Moderna [†] A monovalent Novavax booster dose (instead of a bivalent mRNA booster dose) may be used in limited situations in people ages 18 years and older who are unable to receive an mRNA vaccine (i.e., contraindicated) or unwilling to receive an mRNA vaccine and would otherwise remain unvaccinated. The Novavax booster dose is administered **at least 6 months** after completion of a primary series.

Schedule for People who are Moderately or Severely Immunocompromised

- In most cases, a third primary dose is recommended.
 Exceptions:
 - Ages 12 years and older who receive Novavax: 2-dose primary series
 - Ages 18 years and older who receive Janssen: 1-dose primary series followed by 1 additional mRNA dose

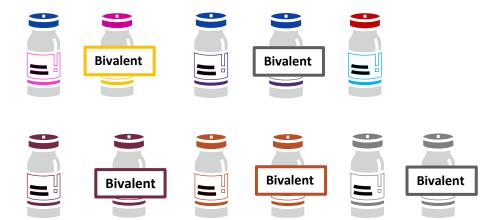
COVID-19 Vaccine Products

Moderna: 5 products

Pfizer-BioNTech: 6 products

Novavax: 1 product

Janssen: 1 product







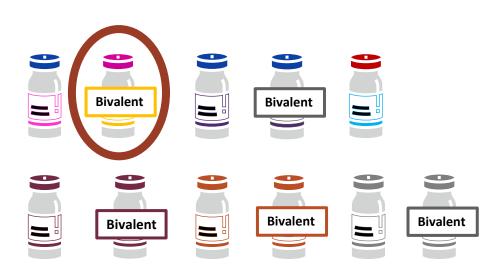
COVID-19 Vaccine Products

Moderna: 5 products

Pfizer-BioNTech: 6 products

Novavax: 1 product

Janssen: 1 product







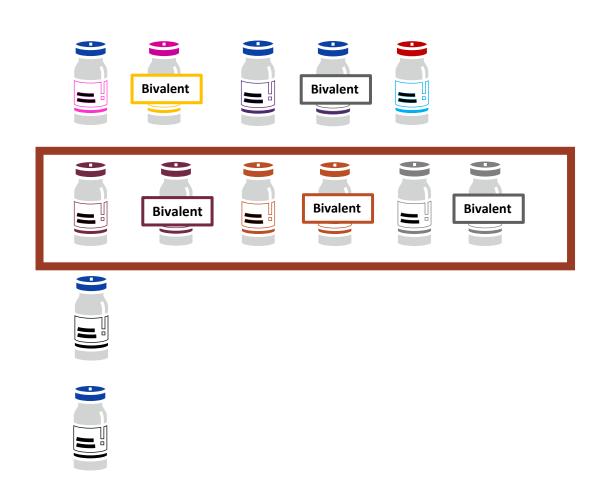
COVID-19 Vaccine Products

Moderna: 5 products

Pfizer-BioNTech: 6 products

Novavax: 1 product

Janssen: 1 product



Coadministration with COVID-19 Vaccines

 Routine administration of all age-appropriate doses of vaccines simultaneously is recommended as best practice for people for whom no specific contraindications exist at the time of the healthcare visit.

Providers should offer all vaccines for which a person is eligible.

 Extensive experience with non-COVID 19 vaccines has demonstrated that immunogenicity and adverse event profiles are generally similar when vaccines are administered simultaneously as when they are administered alone.

Coadministration of Influenza and COVID-19 Vaccines

- Providers should offer influenza and COVID-19 vaccines at the same visit, if eligible.
 - This includes adjuvanted or high-dose influenza vaccines; administer in separate limbs if possible.
- With both influenza and SARS-CoV-2 circulating, getting both vaccines is important for prevention of severe disease, hospitalization, and death.
- Studies on influenza and COVID-19 coadministration have shown a similar immune response and similar or slightly higher reactogenicity, with no safety concerns identified

Lazarus R, Baos S, Cappel-Porter H, et al. Safety and immunogenicity of concomitant administration of COVID-19 vaccines (ChAdOx1 or BNT162b2) with seasonal influenza vaccines in adults in the UK (ComFluCOV): A multicentre, randomised, controlled, phase 4 trial. Lancet 2021, 398, 2277–2287.

Izikson R, Brune D, Bolduc JS, et al. Safety and immunogenicity of a high-dose quadrivalent influenza vaccine administered concomitantly with a third dose of the mRNA-1273 SARS-CoV-2 vaccine in adults aged ≥65 years: A phase 2, randomised, open-label study. Lancet Respir. Med. 2022.

^{3.} Toback S, Galiza E, Cosgrove C, et al. Safety, immunogenicity, and efficacy of a COVID-19 vaccine (NVX-CoV2373) co-administered with seasonal influenza vaccines: An exploratory substudy of a randomised, observer-blinded, placebo-controlled, phase 3 trial. Lancet Respir. Med. 2021,10, 167–179.

^{4.} Hause AM, Zhang B, Yue X, et al. Reactogenicity of Simultaneous COVID-19 mRNA Booster and Influenza Vaccination in the US. JAMA Netw Open. 2022;5(7):e2222241. Domnich A, Grassi R, Fallani E, Ciccone R, Bruzzone B, Panatto D, Ferrari A, Salvatore M, Cambiaggi M, Vasco A, Orsi A, Icardi G. Acceptance of COVID-19 and Influenza Vaccine Co-Administration: Insights from a Representative Italian Survey. Journal of Personalized Medicine. 2022; 12(2):139.

Resources

- Schedule infographic: <u>https://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html</u>
- Immunization schedule job aid:
 https://www.cdc.gov/vaccines/covid 19/downloads/COVID-19-immunization schedule-ages-6months-older.pdf
- All COVID-19 product job aids:
 https://www.cdc.gov/vaccines/covid-19/info-by-product/index.html



COVID-19 Vaccine

Interim COVID-19 Immunization Schedule for Persons 6 Months of Age and Older



The following tables provide guidance for COVID-19 vaccination schedules based on age and medical condition and vaccine composition Table 1. Immunization Schedule for Children 6 Months through 17 Years of Age.

Туре	Recipient Age	Product [†]	For Most People		Those Who ARE Moderately or Severely Immunocompromised		
			Doses	Interval Between Doses*	Doses	Interval Between Dose	
	6 months through	MONOVALENT Moderna: Blue vial cap with magenta-bordered label	Primary series: Monovalent				
			Dose 1 to 2 At least 4–8 weeks ⁴		Dose 1 to 2	At least 4 weeks	
	5 years 9			Dose 2 to 3	At least 4 weeks		
		MONOVALENT Moderna: Blue vial cap with purple-bordered label	Primary series: Monovalent				
	6 through 11 years		D14-7 Au	ose 1 to 2 At least 4–8 weeks ⁶	Dose 1 to 2	At least 4 weeks	
			Dose I to 2		Dose 2 to 3	At least 4 weeks	
		BIVALENT Moderna: Blue vial cap with gray-bordered label	Booster dose: Bivalent				
			Dose 2 to 3	At least 8 weeks (2 months)	Dose 3 to 4	At least 8 weeks (2 month	
		MONOVALENT Moderna: Red vial cap with blue-bordered label	Primary series: Monovalent				
	44				Dose 1 to 2	At least 4 weeks	
	12 through		Dose 1 to 2	At least 4–8 weeks*	Dose 2 to 3	At least 4 weeks	
	17 years	BIVALENT Moderna: Blue vial cap with gray-bordered label	Booster dose: Bivalent				
mRNA			Dose 2 to 3	At least 8 weeks (2 months)	Dose 3 to 4	At least 8 weeks (2 mont)	
vaccine	2 2		Primary series: Monovalent				
	6 months through		Dose 1 to 2	At least 3–8 weeks1	Dose 1 to 2	At least 3 weeks	
	4 years		Doses 2 and 3	At least 8 weeks (2 months)	Dose 2 to 3	At least 8 weeks (2 mont)	
		MONOVALENT Pfizer-BioNTech: Orange vial cap with orange-bordered label	Primary series: Monovalent				
	5		Dose 1 to 2 At least 3–8 weeks 1	A contract of the contract of	Dose 1 to 2	At least 3 weeks	
	through			Dose 2 to 3	At least 4 weeks		
	11 years	BIVALENT Pfizer-BioNTech: Orange vial cap with orange-bordered label	Booster dose: Bivalent				
			Dose 2 to 3	At least 8 weeks (2 months)	Dose 3 to 4	At least 8 weeks (2 month	
	12 years through 17 years	MONOVALENT Pfizer-BioNTech: Gray vial cap with gray-bordered label	Primary series: Monovalent				
			Dose 1 to 2 At least 3-8 weeks ⁴	Dose 1 to 2	At least 3 weeks		
				Dose 2 to 3	At least 4 weeks		
		BIVALENT Pfizer-BioNTech: Gray vial cap with gray-bordered label	Booster dose: Bivalent				
			Dose 2 to 3	At least 8 weeks (2 months)	Dose 3 to 4	At least 8 weeks (2 month	
	12 years and older	MONOVALENT Novavax	Primary series: Monovalent				
			Dose 1 to 2	At least 3–8 weeks ⁴	Dose 1 to 2	At least 3 weeks	
		mRNA (Moderna, Pfizer- BioNTech) should be used for the booster dose.	Booster dose: Bivalent				
			Dose 2 to 3	At least 8 weeks (2 months)	Dose 2 to 3	At least 8 weeks (2 month	
		And the second s					

Guidance related to special situations when vaccinating children, such as those who have a birthday before completing the primary series or booster dose, see <u>Special Situations for COVID-19</u>

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[†] Complete the primary series with same product. If the vaccine product previously administered cannot be determined, is no longer available or contraindicated, any age-appropria monovalent COVID-19 vaccine may be administered at least 28 days after the first dose to complete the primary series. Moderna or Pfizer-BioNTech bivalent COVID-19 vaccine can be

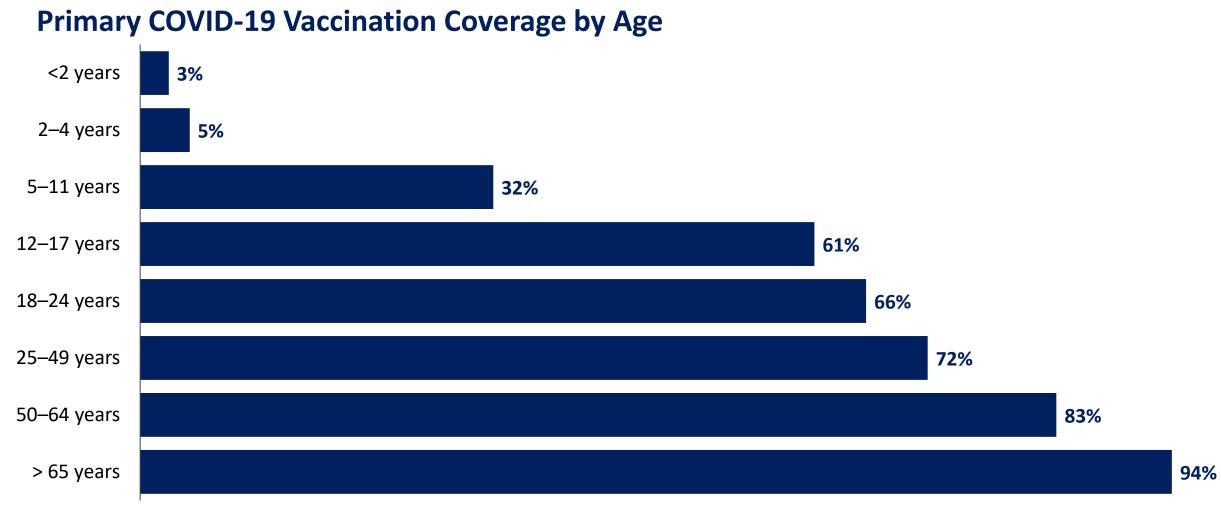
Persons with a recent SARS-COV-2 infection may consider delaying a primary series or booster doze by 3 months from symptom onset or positive test (if infection was asymptomatic).

8. Administract 1 Stear Its Artificial Number of the control of th

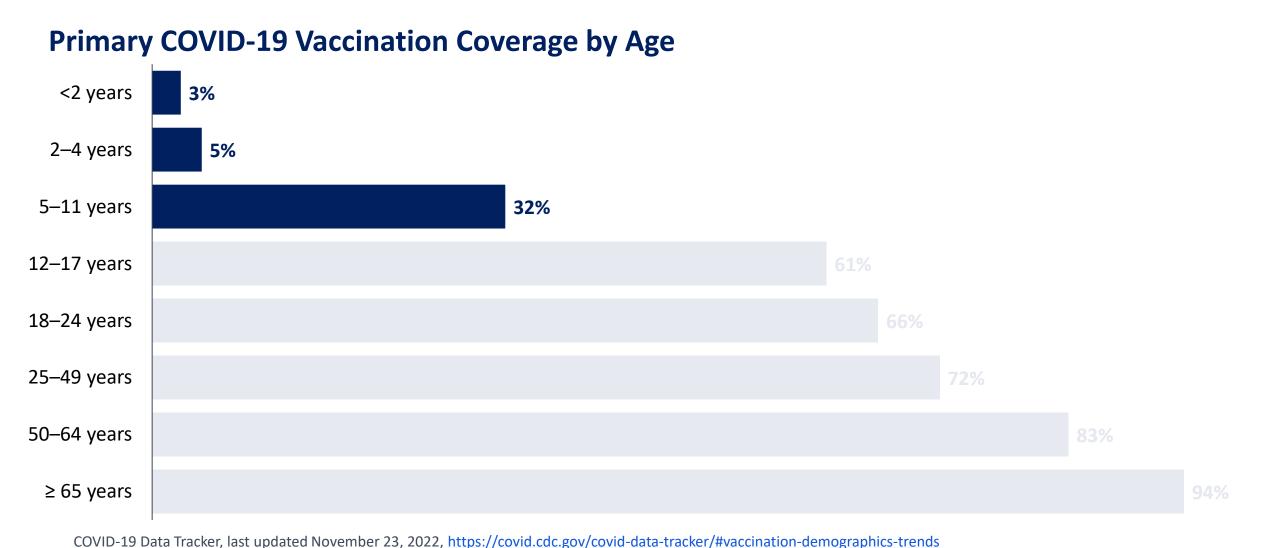
Administer 1 Pfizer Bio-NTech bivalent booster dose to children age 5 years who have completed a primary series of Moderna COVID-19 vaccine.

^{4.} An 3-week interval between the first and second primary series doses of Moderna, Nicawax, and Pffare BioMTech COVID-19 vaccines may be optimal for some people ages 6 months-64 years, a permay reject acceptance to make ages 12-39 years, as it may reject use the small sink of moderatilist associated with these vaccines may be optimal for some people ages 6 months-64 the proposed for the pro

Complete primary series vaccination coverage increases with increasing age.

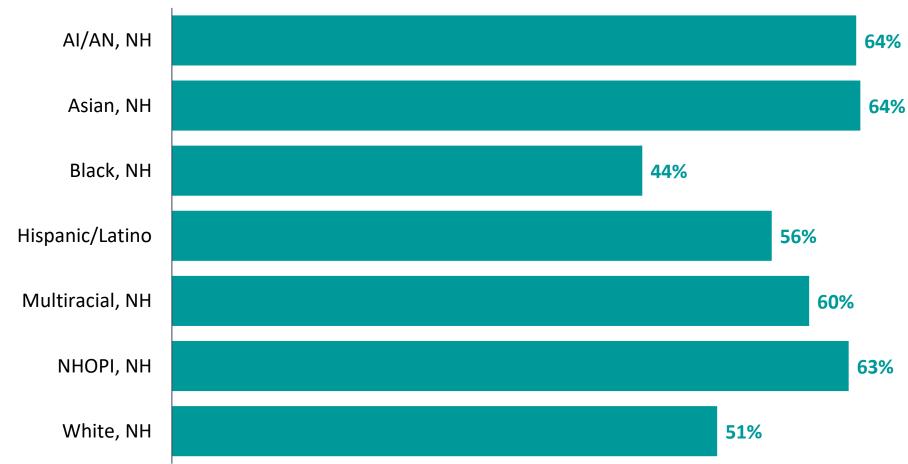


Primary vaccination coverage is **lowest** in the **youngest** age groups.



Primary vaccination coverage disparities are observed by race and ethnicity.

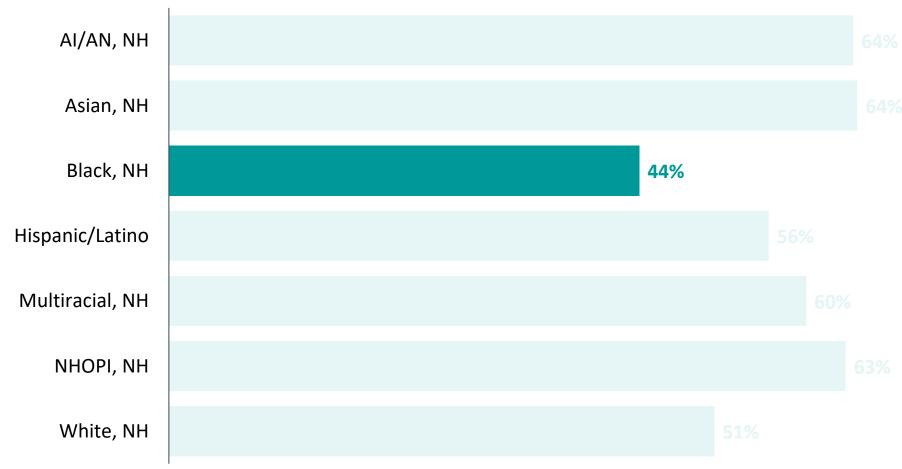
Primary COVID-19 Vaccination Coverage by Race/Ethnicity



Al or AN: American Indian or Alaska Native; NHOPI: Native Hawaiian or Other Pacific Islander; NH: non-Hispanic COVID-19 Data Tracker, last updated November 23, 2022, https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends

Coverage is lowest among Black, non-Hispanic persons.

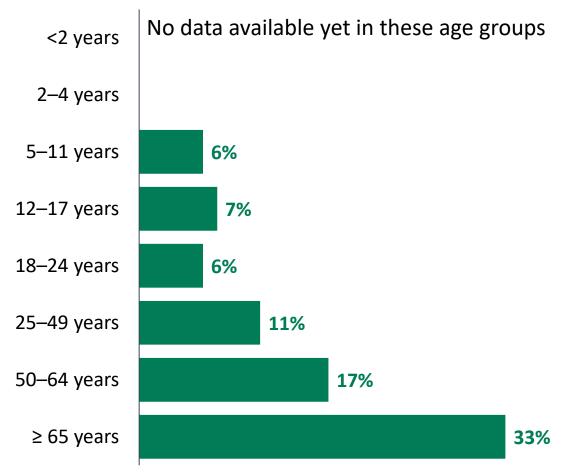
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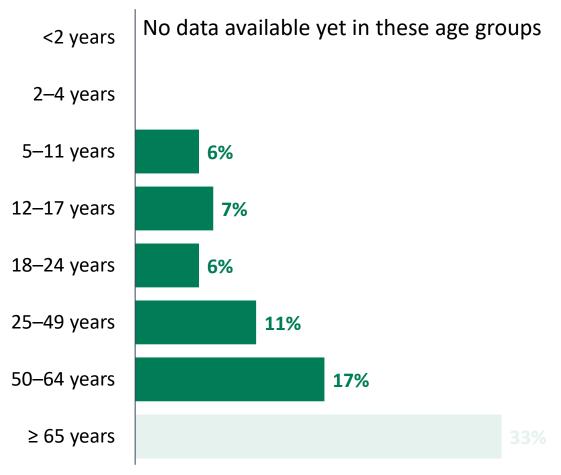
In general, bivalent booster vaccination coverage is low.

Bivalent Booster COVID-19 Vaccination Coverage by Age



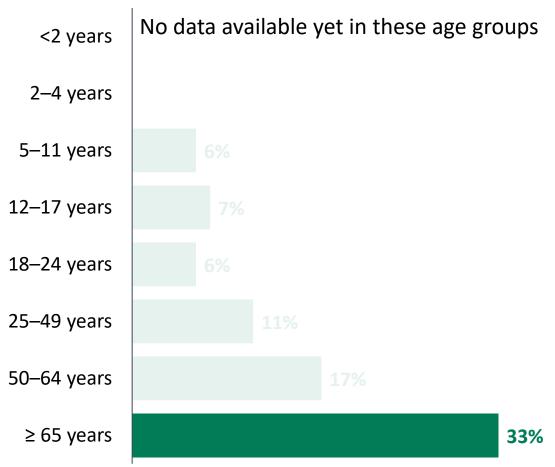
Bivalent booster vaccination coverage is **lowest** among those **younger than age 65 years.**

Bivalent Booster COVID-19 Vaccination Coverage by Age



Despite higher coverage among those age >65 years, rates are still relatively low and a booster is critical for older adults.

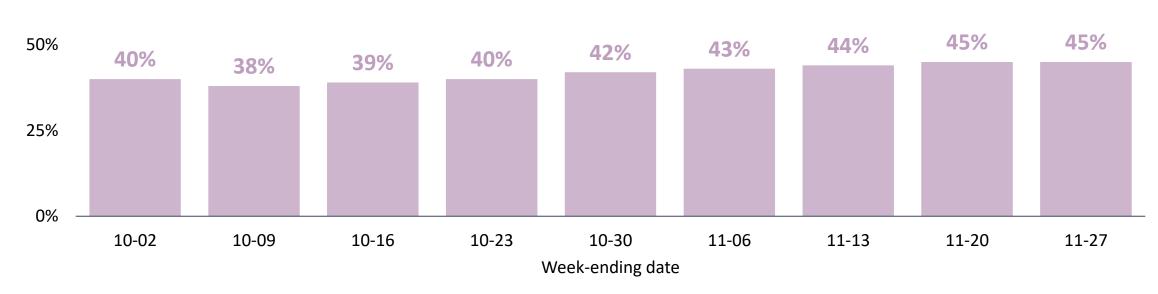
Bivalent Booster COVID-19 Vaccination Coverage by Age



Using facility-level data, about 45% of nursing home residents have received a bivalent booster

Percentage of Nursing Home Residents Who Are Up to Date with COVID-19 Vaccination (n=14,746)

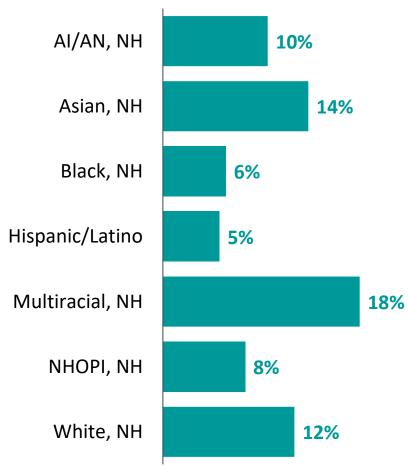
75%



The NHSN surveillance definition of Up to Date is updated quarterly to incorporate CDC guidance changes. On week-ending 7/3/2022, a new up to date definition was applied, which incorporates second boosters for individuals aged 50 and older. On week-ending 10/2/2022, the up to date definition changed again to include bivalent booster. See here for NHSN surveillance definitions, including up to date, by reporting quarter. Data for the most recent week are still accruing.

Booster vaccination coverage disparities are observed by race and ethnicity.

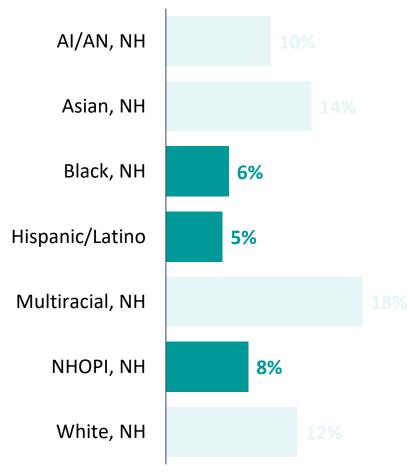
Bivalent Booster COVID-19 Vaccination Coverage by Race and Ethnicity



Al or AN: American Indian or Alaska Native; NHOPI: Native Hawaiian or Other Pacific Islander; NH: non-Hispanic COVID-19 Data Tracker, last updated November 23, 2022, https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends

Coverage is lowest among Black, non-Hispanic, Hispanic/Latino, and Native Hawaiian or Other Pacific Islander.

Bivalent Booster COVID-19 Vaccination Coverage by Race and Ethnicity



COVID-19 Data Tracker, last updated November 23, 2022, https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends

Self-Knowledge Check:

Can the bivalent booster be heterologous/mix-and-match (i.e., different manufacturer for the primary series and booster dose)?

- A. Yes
- B. No
- C. It depends on the person's age and primary series

Self-Knowledge Check:

The correct answer is:

C. It depends on the person's age and primary series.

Bivalent booster recommendations vary based on the person's age at the time of vaccination and the primary series received.

For more information, contact CDC 1-800-CDC-INFO (232-4636)

TTY: 1-888-232-6348 <u>www.cdc.gov</u>

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Centers for Disease Control and Prevention





Talking to Patients about Vaccines

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Centers for Disease Control and Prevention

Ladder to Building Demand

Make Vaccines:



Necessary

(indispensable for accessing things they want to do)



Normative

(presented as a social default)



Desirable (appealing)



Convenient

(reduce out-of-pocket, social, and opportunity costs)



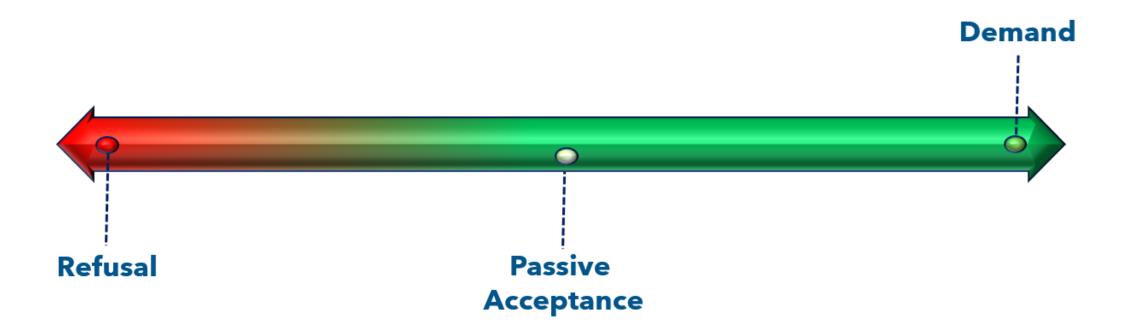
Beneficial (health benefits outweigh risks of getting ill or perceived or real side effects from vaccination)



Accessible (easy to get)

Willingness to Accept a Vaccine Falls on a Continuum

INCREASING CONFIDENCE IN VACCINE, VACCINATOR, AND HEALTH SYSTEM



Vaccine Confidence is Built on Trust

The **trust** that patients, their families, and providers have in:

- Recommended vaccines
- Providers who administer vaccines
- Processes and policies that lead to vaccine development, licensure or authorization, manufacturing, and recommendations for use







YOU are patients' and parents' most trusted source of information on vaccines.

Building and Sustaining Vaccine Confidence

- Every conversation about vaccines impacts vaccine confidence in routine and COVID-19 vaccines
- Be prepared to recommend routine vaccines and support conversations about COVID-19 vaccines
 - Professional and personal settings





Combining Multiple Approaches



- Presumptive
- Motivational
- Restorative

Presumptive Approach with a Strong Recommendation

 CDC recommends giving a strong recommendation for vaccination using the presumptive approach.

The presumptive approach assumes a patient will choose to vaccinate.

Your strong vaccine recommendation is the most important part of the vaccine conversation.

Presumptive vs Participatory Approach

Presumptive approach:
Assumes patient/parent will choose to vaccinate

James is due for his COVID-19 vaccine today.

Participatory approach:
Presents patient/parent with a decision to make



When to Use the Presumptive Approach

Use throughout the clinical experience

 Use among all staff; consistent messaging is critical



Benefits of the Presumptive Approach

- More likely to accept vaccines with a presumptive versus participatory approach.
 - True even among vaccine-hesitant and first-time patients
- More likely to express concerns when asking about vaccination plans.

Delivering a Strong Recommendation: SHARE

 Resources for delivering a strong recommendation:

https://www.cdc.gov/vaccines/hcp/adult
s/for-

practice/standards/recommend.html

https://www.cdc.gov/flu/professionals/vaccination/flu-vaccine-recommendation.htm

- S HARE the reasons why the vaccine is right for the patient.
- H IGHLIGHT positive experiences with the vaccine to reinforce benefits.
- A DDRESS patient questions and concerns.
- R EMIND patients the vaccine helps protect them and their loved ones.
- E XPLAIN the potential costs of getting the vaccine-preventable disease.

Motivational Interviewing (MI)

- Evidence-based and culturally sensitive way to speak with unvaccinated patients about getting vaccinated
- The goal is to help people manage mixed feelings and move toward healthy behavior change consistent with their values and needs
- Ideal for situations for concerned patients or patients with questions
- Studies using MI with vaccination decisions demonstrate increased intent to vaccinate and improved vaccination rates

Motivational Interviewing Quickly Builds Trust and Partnership

- Four steps to applying rapidly (1-5 minutes)
- 1 Be empathetic
- 2 Ask permission
- 3 Apply interviewing techniques
- 4 Respond to questions

Step 1: Be an Empathetic Partner

 Be compassionate and show empathy.

Be sensitive to culture, family dynamics, and circumstances that may influence how patients view vaccines.

Do not argue or debate.



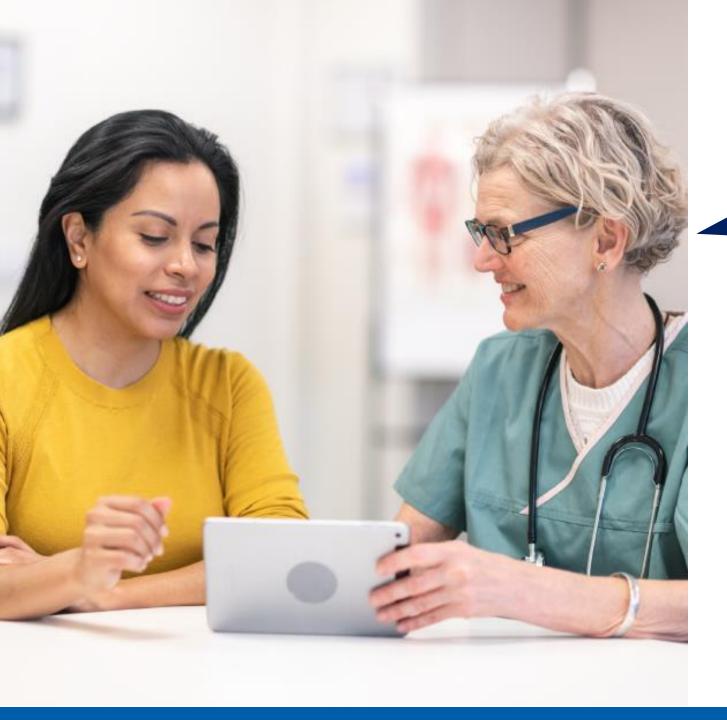
Step 2: Ask Permission to Share More Information About Vaccines

Start by asking permission to discuss vaccines.

Example: "If it is okay with you, I would like to spend a few minutes talking about COVID-19 vaccines and your family."

Step 2: Ask Permission to share more information about vaccines

- If the patient indicates they do <u>NOT</u> want to talk about vaccines:
 - Probe about why they don't want to talk about vaccines
 - "Can you tell me more about the reasons you don't want to discuss vaccination today?"
 - Respect the patient's decision
 - "You're not ready to talk about vaccines today, and that's okay."
 - Ask if they would be willing to talk about vaccines at their next visit
 - "Because I care about your overall health, maybe we could talk about the vaccine at your next visit?"



If it is okay with you, I would like to spend a few minutes talking about COVID-19 vaccines and your family.

That sounds okay.

Step 3: Motivational interviewing

- Open the conversation
 - Use open-ended starters to explore
 - Avoid yes/no questions, which stop the conversation
- Affirm positive behaviors
 - "That's great that you've gotten your flu vaccine."
- Reflect what you hear
 - "It sounds like you're feeling concerns about the vaccine."
- **Summarize** the conversation
 - "Let me see if I understand what you've said so far [summarize in your own words]."

Step 3: Motivational interviewing

- Example: Ask the patient a scaled question.
 - "On a scale of 1 to 10, how likely are you to get a COVID-19 vaccine?"
- Keep exploring and reflectively listen.
 - "Why did you choose this number?"
 - "Why wasn't it lower?" "Why wasn't it higher?"
 - "What would take to get to a higher number?"
- The goal is to help the patient become more open to moving toward high numbers (i.e., getting vaccinated).



On a scale of 1 to 10, how likely are you to get a COVID-19 vaccine?

Hmmmm...4.

Tell me more about why you said 4.



I don't think there's anything wrong with it—I've already had 2 shots. But I'm healthy, and I've already had COVID once, I just don't see why I need another shot. My immune system can handle it.

I'm hearing you're not seeing much benefit to the COVID booster. What might make you move to a 5 or 6?

I guess if I knew what's in it for me.

Knowing what's in it for you is important. Would you like to explore some of the reasons vaccination would still benefit you?



Sure.

Although there are some people at higher risk, as you've pointed out, anyone can get COVID-19 and develop severe disease. By getting vaccinated, you reduce your chances of getting really sick and then having to miss work or not being able to take care of your family. How do you feel about that?

Step 4: Respond to questions

- If a patient asks a question about vaccine safety, vaccine risks, or their health or mental health, respond within the boundaries of your competence, ethics, and scope of practice.
- Most data on safety and risk is population based. Practice reframing safety as individual risk.
 - "Based on your health, you are at an increased risk of getting very sick, and in the group the vaccine will most benefit.
- If you do not know the answer to a question, discuss how to find a good source of information.



The benefits you explained make sense, but what about risks? I heard that my immune system might stop working against COVID if I get too many shots.

That's a good question. Some people have proposed this, but so far what we know indicates this is NOT happening. We know that the updated vaccine improved antibody response after a 4th dose, both in people with and without previous infection.

Restorative Approach

• An approach to engaging people with histories of trauma that recognizes the presence of trauma symptoms and acknowledges the role that trauma has played in their lives

 Trauma decreases our space for learning, affects the ability to trust, and affects our decisions

Six Restorative Approach Principles



- Safety
- Trustworthiness and transparency
- Empowerment, voice, and choice
- Collaboration and mutuality
- Peer support
- History, culture, and gender

Restorative Communication Strategies

- Speak with a normal, controlled voice
- Invoke a sense of calm
- Express kindness, patience, and acceptance
- Use engaging eye contact and positive body language
- Ask open-ended questions
- Respect personal space

Identified Themes Regarding Bivalent COVID-19 Vaccine

- Theme 1: Some consumers, news outlets and medical professionals are concerned about the availability and eligibility requirements of the bivalent booster doses
- Theme 2: Consumers have questions and concerns about the safety of the bivalent booster dose especially given reports of lack of human trial data
- Theme 3: Consumers have questions and concerns about the effectiveness of a bivalent booster dose, including if a booster dose is even needed
- Theme 4: Some health experts and evidence suggest that combining messaging promoting uptake of the bivalent booster dose and the annual flu vaccine might not be effective for all people

CDC Healthcare Professionals Resources

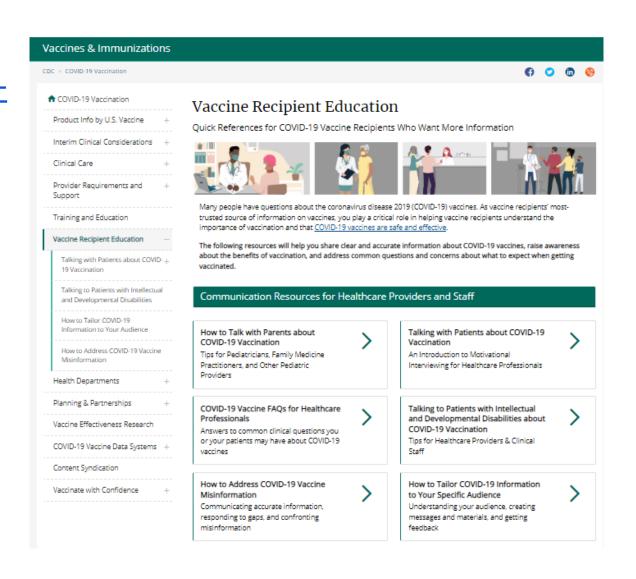
https://www.cdc.gov/vaccines/covid-19/index.html



Find a variety of tools to help you educate vaccine recipients

CDC Vaccine Recipient Education Resources

- https://www.cdc.gov/vaccines/covid-19/planning/children/resourcespromote.html
- Talking to parents and patients
- FAQs
- Addressing misinformation
- Tailoring information to your audience
- Many resources—videos, posters, social media graphics, customizable letter, and more



CDC Motivational Interviewing Information

https://www.cdc.gov/vaccines/covid-19/hcp/engaging-

patients.html



Talking with Patients about COVID-19 Vaccination

Print

An Introduction to Motivational Interviewing for Healthcare Professionals

If it is okay with you, I would like to spend a few minutes talking about COVID-19 vaccines and your family.

As a trusted source of health information and healing, your approach to a conversation with patients and families who are hesitant about receiving COVID-19 vaccines can influence their willingness to consider vaccination.

Motivational interviewing [] is an evidence-based and culturally sensitive way to speak with unvaccinated patients about getting vaccinated. The goal of motivational interviewing is to help people manage mixed feelings and move toward healthy behavior change that is consistent with their values and needs.

How to Apply Motivational Interviewing During a Patient Visit

CDC COVID-19 Vaccine Resources for Patients

https://www.cdc.gov/vaccines/covid-19/planning/children/resources-promote.html

Template Blog, Newsletter, Email for Providers and Partners Draft 3/31/22

Customizable Letter Template for COVID-19 Vaccination for Children

This sample letter template has information about COVID-19 vaccination for children who are eligible and is designed for providers and partners to send to parents and caregivers. It may be adapted and used in blogs, email communication, newsletters, etc. and can be customized with contact information. Highlighted content indicates information that may be tailored based on the vaccine provider's needs.

AUTHOR: [insert office, clinic, vaccination event name]

TITLE: COVID-19 vaccination for children: What you need to know

COVID-19 vaccines are available for children ages 6 months and older. We are excited to offer vaccines at our [insert office, clinic, or other location] to help protect children against COVID-19. Getting children vaccinated against COVID-19 can help keep them from getting really sick if they get COVID-19. Vaccinating children can also help relieve the strain on families by providing greater confidence in children participating in childrane, school, and other activities.

Schedule [insert link to organizational scheduler] or call [insert phone number] to schedule your child's COVID-19 vaccine today.

We know parents and caregivers have questions and want more information. Here's what you need to know.

Children of all ages can get very sick from COVID-19.

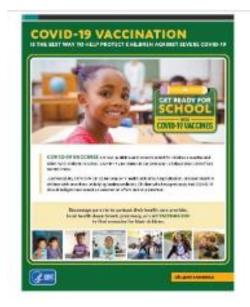
Children can get infected with COVID-19, get very sick, suffer short- and long-term health complications. and spread COVID-19 to others.

(INSERT QUOTE FROM SPOKESPERSON. Suggested quote: "In children who have been infected with COVID-19, we have seen a range of symptoms, from very mild to serious illness, and in some cases even requiring hospitalization. That's why we recommend COVID-19 vaccination for all children ages 6 months and older to help protect them.") says [INAME and TITLE].

COVID-19 vaccination is safe and effective for children.

COVID-19 vaccination has been studied carefully in children. The U.S. Food and Drug Administration (FDA), Centers for Disease Control and Prevention (CDC), and

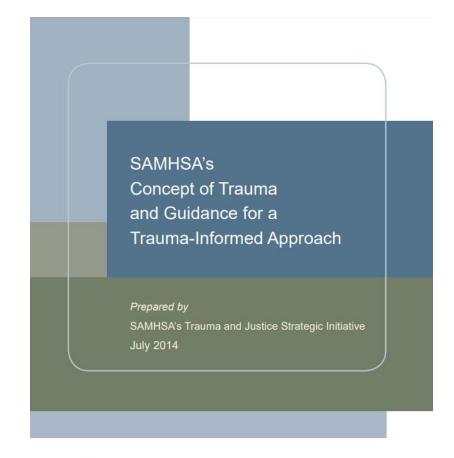






External Resources

 SAMHSA's Concept of Trauma and Guidance for a Trauma-Informed Approach: https://store.samhsa.gov/site
 s/default/files/d7/priv/sma1
 4-4884.pdf







Reimbursement Resources

CMS

- Medicaid Early and Periodic Screening Diagnostic and Treatment benefit covers vaccination counseling for eligible children under age 12 years on Medicaid: https://www.medicaid.gov/federal-policy-guidance/downloads/sho22002.pdf
- Has a code for adult patient vaccination counseling when counseling is done but a vaccine is not administered
- Refer to CMS for CPT codes: https://www.cms.gov/medicare/fraud-and-abuse/physicianselfreferral/list of codes
- Individual private insurance companies can be referenced to determine if/what CPT codes exist for vaccination counseling

Self-Knowledge Check

- Which of the following is NOT a recommended approach to communicating with patients about vaccination?
 - A. Presumptive
 - B. Motivational
 - C. Participatory
 - D. Restorative

Self-Knowledge Check

- Which of the following is NOT a recommended approach to communicating with patients about vaccination?
 - C. Participatory

The participatory approach presents a patient with a decision to make. Research has shown this approach is less effective than the presumptive approach.

For more information, contact CDC 1-800-CDC-INFO (232-4636)

TTY: 1-888-232-6348 <u>www.cdc.gov</u>

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To Ask a Question

- Using the Zoom Webinar System
 - Click on the "Q&A" button
 - Type your question in the "Q&A" box
 - Submit your question
- If you are a patient, please refer your question to your healthcare provider.
- If you are a member of the media, please direct your questions to CDC Media Relations at 404-639-3286 or email media@cdc.gov

Continuing Education

- All continuing education for COCA Calls is issued online through the CDC Training & Continuing Education Online system at https://tceols.cdc.gov/.
- Those who participate in today's COCA Call and wish to receive continuing education please complete the online evaluation by January 16, 2023, with the course code WC4520-121322.
 The access code is COCA121322.
- Those who will participate in the on-demand activity and wish to receive continuing education should complete the online evaluation between January 17, 2023, and January 17, 2025, and use course code WD4520-121322. The access code is COCA121322.
- Continuing education certificates can be printed immediately upon completion of your online evaluation. A cumulative transcript of all CDC/ATSDR CEs obtained through the CDC Training & Continuing Education Online System will be maintained for each user.

Today's COCA Call Will Be Available to View On-Demand

When: A few hours after the live call ends*

What: Video recording

Where: On the COCA Call webpage
 https://emergency.cdc.gov/coca/calls/2022/callinfo 121322.asp

 Sign up to receive future COCA Call Announcements and other timely information: https://emergency.cdc.gov/coca/subscribe.asp

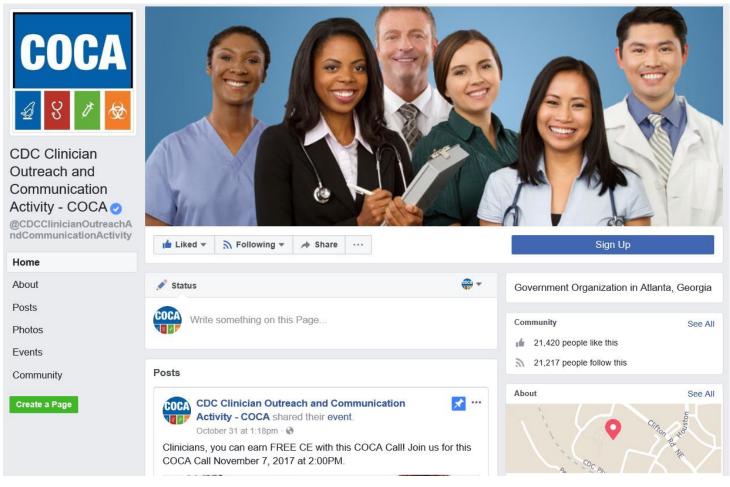
^{*}A transcript and closed-captioned video will be available shortly after the original video recording posts at the above link.

Upcoming COCA Call & Additional Resources

- Join us for our next <u>COCA Call</u>, Tuesday, December 20 at 2 PM ET.
 - Topic: Ebola: Clinical Presentation, Evaluation, and Infection Prevention
- Continue to visit https://emergency.cdc.gov/coca/ to get more details about upcoming COCA Calls.
- Subscribe to receive notifications about upcoming COCA calls and other COCA products and services at emergency.cdc.gov/coca/subscribe.asp.

Join Us on Facebook





https://www.facebook.com/CDCClinicianOutreachAndCommunicationActivity

Thank you for joining us today!

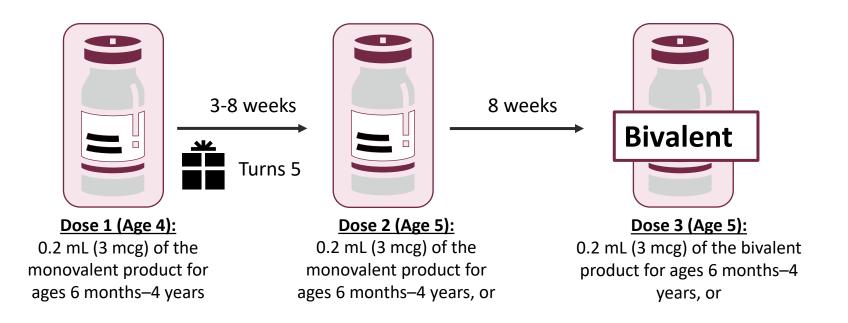


https://emergency.cdc.gov/coca/

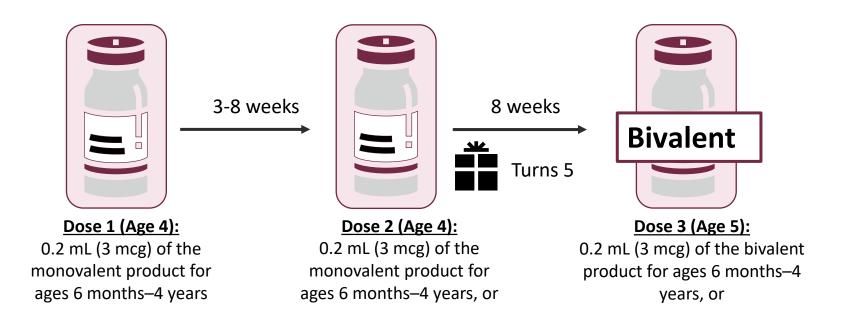
Back-up Slides for Questions

- FDA emergency use authorization (EUA) requires children who will turn from age 4 years to 5 years during the primary series to complete the series they start, either:
 - The 3-dose primary series recommended for children ages 6 months—4 years or
 - The 2-dose primary series recommended for children ages 5 months-11 years
- Because no other dosing options are authorized for this age transition, CDC's standard guidance to administer the age-appropriate vaccine product and dosage based on age on the day of vaccination does NOT apply.

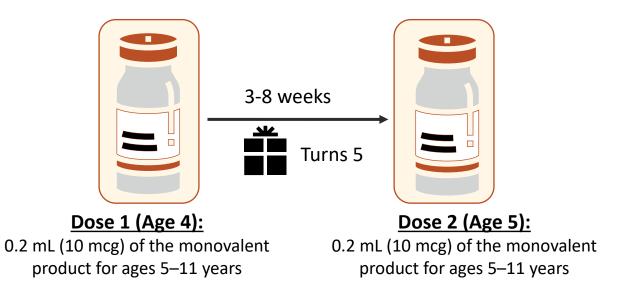
Scenario 1: If a 3-dose series is initiated, it must be completed, even if a child ages up between doses 1 and 2.



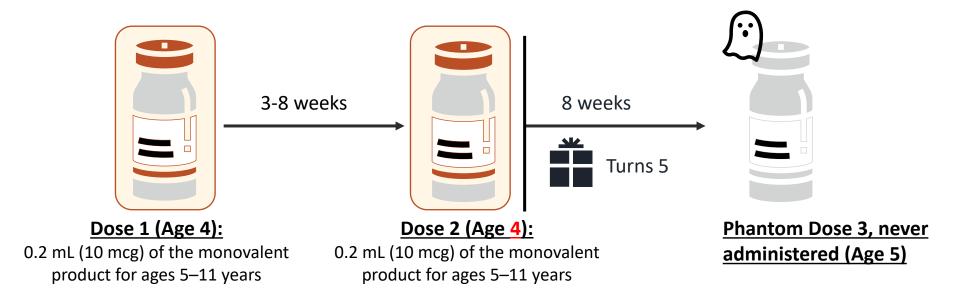
Scenario 2: If a 3-dose series is initiated, it must be completed, even if a child ages up between doses 2 and 3.



Scenario 3: If a 2-dose primary series is initiated, it must be completed using the product for people ages 5–11 years (orange cap)



Scenario 4: If a 2-dose primary series is initiated, it must be completed using the product for people ages 5–11 years (orange cap)



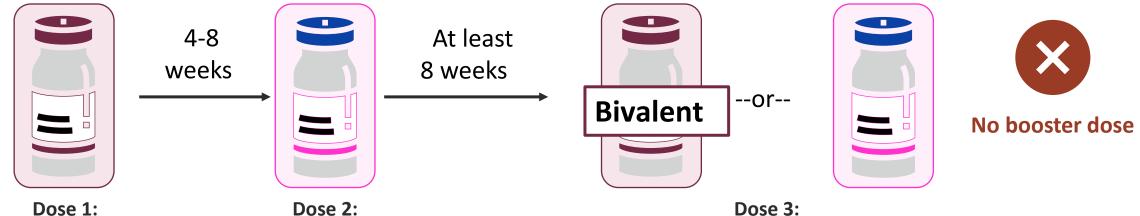
- Can a child who completes a Pfizer-BioNTech primary series at ages 6 months—4 years get a booster dose when they turn age 5 years?
- Yes. The child should receive 1 bivalent Pfizer-BioNTech booster dose when they turn age 5 years, and it has been at least 2 months since completing their primary series.
- The child can get the bivalent booster dose regardless of whether the third primary series dose was a monovalent or bivalent Pfizer-BioNTech vaccine.

Children Transitioning from a Younger to Older Age Group who ALREADY Received a Bivalent Booster Dose

- Only 1 bivalent <u>booster</u> dose total is currently authorized.
- Children transitioning from a younger to older age group who have already received 1 bivalent <u>booster</u> dose CANNOT get a second bivalent booster dose.
- Example: A child age 5 years received the Moderna primary series and Moderna bivalent booster. When this child turns age 6 years, they do not get another bivalent booster. Once a child receives 1 bivalent booster dose, no additional booster doses are indicated at this time.

Mixed Series For Children Ages 6 Months-4 Years

 Children ages 6 months—4 years who receive different mRNA products for the first 2 doses of an mRNA COVID-19 vaccine series should follow a 3-dose schedule. A third dose of either a monovalent Moderna vaccine or a bivalent Pfizer-BioNTech vaccine should be administered at least 8 weeks after the second dose to complete the 3dose primary series. These children are currently not eligible for a booster dose.



0.20 mL (3mcg) of the monovalent Pfizer-BioNTech product for ages 6 months through 4 years

0.25 mL (25mcg) of the monovalent Moderna product for ages 6 months through 5 years

0.20 mL (3mcg) of the bivalent Pfizer-BioNTech product for ages 6 months through 4 years

--Or--

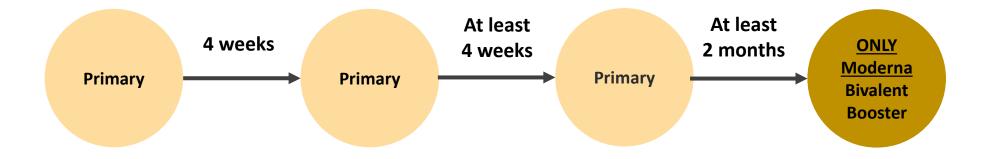
0.25 mL (25mcg) of the monovalent Moderna product for ages 6 months through 5 years



Pediatric Schedule: Ages 6 months-4 Years (Moderately or Severely Immunocompromised)

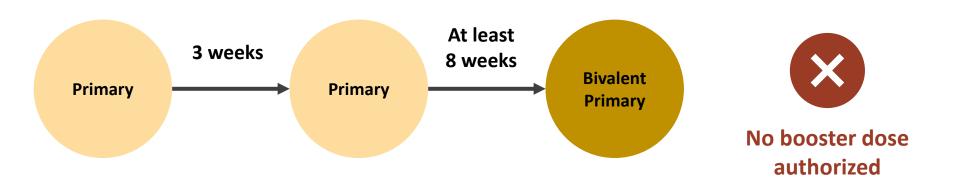
Ages 6 months— 4 years

(Primary Series: Moderna)



Ages 6 months— 4 years

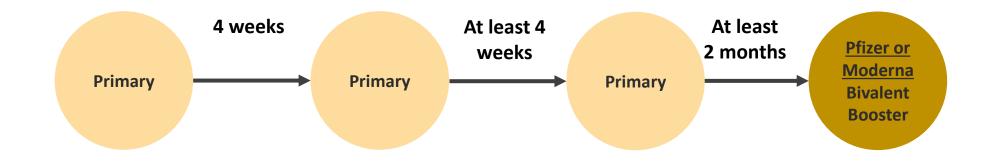
(Primary Series: Pfizer-BioNTech)



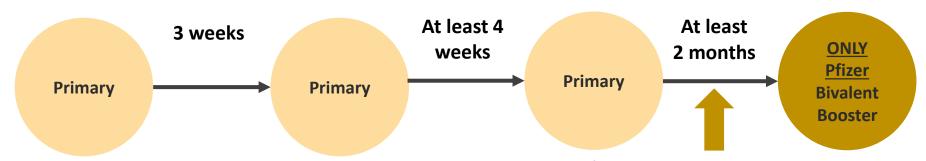


Pediatric Schedule: Age 5 Years (Moderately or Severely Immunocompromised)

Age 5 years
(Primary Series:
Moderna)



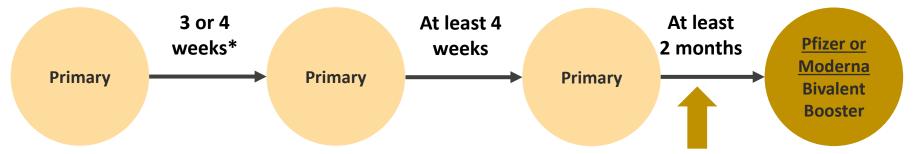
Age 5 years (Primary Series: Pfizer-BioNTech)





Pediatric Schedule: Ages 6–11 Years (Moderately or Severely Immunocompromised)

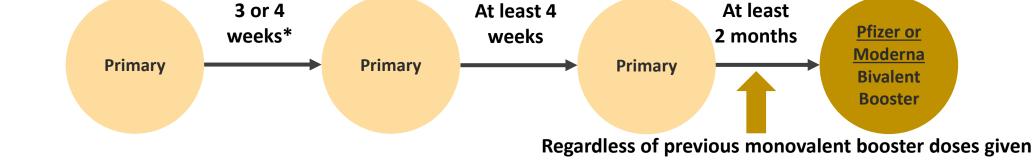
Ages 6–11 years
(Primary Series:
Moderna or
Pfizer-BioNTech)





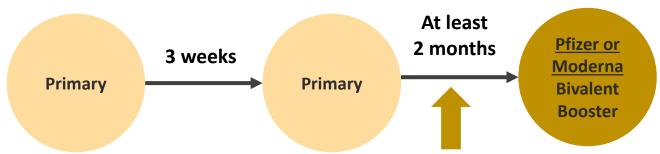
Pediatric Schedule: Ages 12–17 Years (Moderately or Severely Immunocompromised)

Ages 12–17
years
(Primary Series:
Modernaor
Pfizer-BioNTech)



Ages 12–17 years

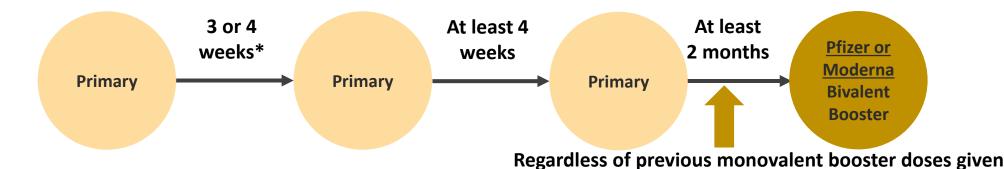
(Primary Series: Novavax)





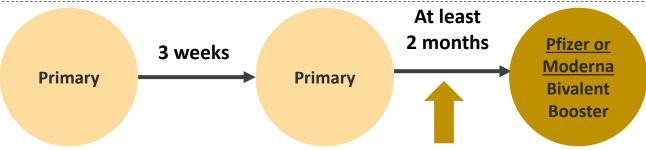
Ages 18 years and older (Primary Series: Moderna or Pfizer-BioNTech)

Adult Schedule: Ages 18 years and older (Moderately or Severely Immunocompromised)



Ages 18 years and older

(Primary Series: Novavax)

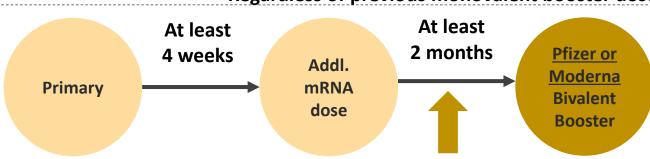


Regardless of previous monovalent booster doses given

Ages 18 years and older

(Primary Series:

Janssen)



vaccine (i.e., contraindicated) or unwilling to receive an mRNA vaccine and would otherwise remain unvaccinated



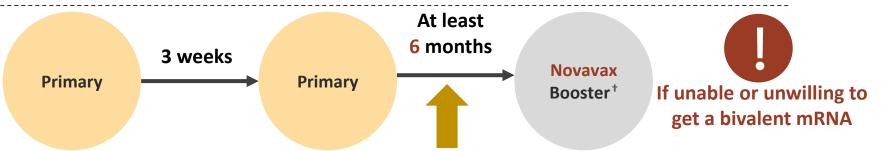
Ages 18 years and older (Primary Series: Moderna or Pfizer-BioNTech)

Adult Schedule: Ages 18 years and older (Moderately or Severely Immunocompromised) If unable or unwilling to

get a bivalent mRNA 3 or 4 At least 4 At least weeks* weeks 6 months Novavax **Primary Primary Primary** Booster[†] Only WITHOUT receipt of previous booster(s)

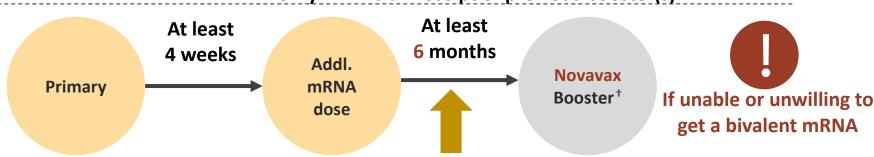
Ages 18 years and older (Primary Series:

Novavax)



Only WITHOUT receipt of previous booster(s)

Ages 18 years and older (Primary Series: Janssen)



lovavax booster dose (instead of a bivalent mRNA booster dose) may be used in limited situations in people ages 18 years and older who are unable to receive an mRNA vaccine (i.e., contraindicated) or unwilling to receive an mRNA vaccine and would otherwise remain unvaccinated

Only WITHOUT receipt of previous booster(s)

ttps://www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.htm