### Preparing for Fall Vaccination: Flu, COVID, and Catch Up

Michigan Physician Peer Education Project On Immunizations

October 28, 2022



### Influenza Disease Burden

- Difficult to predict severity and timing
- Rates of serious illness and death greatest in:
  - Persons aged 65 years and older
  - Children <5 years, especially children less than 2 years of age
  - Persons with medical conditions that put them at high risk
- Only half develop classic clinical flu symptoms
- 5 categories of surveillance: viral, mortality, hospitalization, geographic spread, and outpatient influenza-like illness (ILINet)<sup>2</sup>
  - We need more ILINet providers!
  - For more information email, <u>DoeblerM@michigan.gov</u>

National Estimated Range of Annual Burden of Influenza- U.S 2010-2020<sup>1</sup>



- 1. <u>www.cdc.gov/flu/about/burden/index.html</u>
- 2. www.michigan.gov/flu/0,6720,7-321-101694-121722--,00.html

### Flu Season Timing

![](_page_2_Figure_1.jpeg)

Flu activity peak months in the U.S. from the 1982-1983 through 2019-2020 flu seasons

#### www.cdc.gov/flu/weekly/index.htm

### **Core Influenza Vaccine Recommendation**

- Routine annual flu vaccination is recommended for ALL persons aged 6 months and older who do not have contraindications
- With the exception of vaccination for adults 65 years and older, no preferential recommendation is made for one flu vaccine product over another when more than one licensed, recommended, and age-appropriate product is available

## **Timing of Flu Vaccination**

- ACIP recommends that flu vaccination be offered by the end of October
- Children aged 6 months through 8 years who need 2 doses should receive their 1st dose ASAP after vaccine becomes available to allow the 2nd dose to be received ideally by the end of October
  - Minimum interval: 4 weeks
  - If both doses haven't been received by the end of October, still complete the 2-dose series
- Children of any age needing 1 dose this season, should also ideally be vaccinated by the end of October. Vaccination of these children can occur as soon as vaccine is available, as there is less evidence to suggest waning immunity among children compared with adults
- For non-pregnant adults, influenza vaccination during July and August should be avoided unless there is concern that later vaccination might not be possible

## Timing of Flu Vaccination, Cont.

Pregnant Persons in First or Second Trimester

- Waiting to vaccinate until September or October is preferable, unless there is concern that later vaccination might not be possible
- Pregnant Persons in Third Trimester
  - Vaccination soon after vaccine becomes available (July/August) can be considered for pregnant persons during the third trimester, as vaccination of pregnant persons has been shown to reduce risk of influenza illness of their infant during the first months of life

## Timing of Flu Vaccination, Cont.

![](_page_6_Figure_1.jpeg)

This Photo by Unknown Author is licensed under <u>CC BY-SA</u>

 Continue to vaccinate as long as flu viruses are circulating, and unexpired vaccine is available

 No recommendation is made for revaccination (i.e., providing a booster dose) later in the season for persons who have already been fully vaccinated

### Types of Influenza Vaccine Available in 2022-23 Season

- Main Influenza vaccine types:
  - IIV4=inactivated influenza vaccine, quadrivalent
  - RIV4=recombinant influenza vaccine, quadrivalent
  - LAIV4=live attenuated influenza vaccine, quadrivalent
- Prefixes are used when necessary to refer to some specific IIVs
  - a=adjuvanted inactivated influenza vaccine quadrivalent (allV4)
  - cc=cell culture-based inactivated influenza vaccine quadrivalent (ccIIV4)
  - HD=high-dose inactivated influenza vaccine quadrivalent (HD-IIV4)
- Numerals following the letter abbreviations indicate the number of flu strains represented in the vaccine
  - All influenza vaccines available in the U.S. for the 2022-2023 season are quadrivalent

### Influenza Vaccination for Persons 65 Years and Older

- **NEW!** ACIP recommends that adults aged 65 years and older preferentially receive any one of the following higher dose or adjuvanted influenza vaccines:
  - Quadrivalent high-dose inactivated influenza vaccine (HD-IIV4),
  - Quadrivalent recombinant influenza vaccine (RIV4), or
  - Quadrivalent adjuvanted inactivated influenza vaccine (allV4)
- If none of these three vaccines are available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be administered

<u>Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory</u> <u>Committee on Immunization Practices — United States, 2022–23 Influenza Season | MMWR (cdc.gov)</u>

### 2022-23 Flu Vaccine Presentation Chart

- Lists flu vaccine products, brand names, age indications, product presentations
- Multi-dose vials:
  - Afluria: once stopper has been pierced, discard vial after 28 days or 20 needle punctures to the vial, whichever comes first
  - Fluzone: max 10 doses can be withdrawn (even if 0.25 mL doses)
  - Flucelvax: use up until exp. date

www.michigan.gov/flu → Resources → Resources for Health Professionals

#### Seasonal Influenza Vaccines 2022-2023

Use the Correct Product and Presentation Based on the Patient's Age and Status

Vaccine Type <sup>1</sup>	Brand	Presentation	Age Indication <sup>2</sup>					
QUADRIVALENT								
IIV4	Fluarix <sup>®</sup> Quadrivalent (GlaxoSmithKline)	Prefilled 0.5 mL syringe	6 months & older <sup>2</sup>					
IIV4	FluLaval <sup>®</sup> Quadrivalent (GlaxoSmithKline)	Prefilled 0.5 mL syringe	6 months & older <sup>2</sup>					
		5.0 ml multi doco viol <sup>4</sup>	6 through 35 months (0.25 or 0.5 mL) <sup>2</sup>					
11574	Fluzone <sup>®</sup> Quadrivalent (Sanofi Pasteur)	5.0 mL multi-dose viai	3 years & older (0.5 mL)					
1174		Prefilled 0.5 mL syringe	E-months & older <sup>2</sup>					
		0.5 mL single-dose vial	6 months & older					
		5 0 m h d a m 4 5	6 through 35 months (0.25mL) <sup>2</sup>					
IIV4	Afluria <sup>®</sup> Quadrivalent (Segirus)	5.0 mL multi-dose vial	3 years & older (0.5 mL)					
		Prefilled 0.5 mL syringe	3 years & older					
LAIV4	FluMist <sup>®</sup> Quadrivalent (AstraZeneca)	Prefilled 0.2 mL single-use intranasal sprayer	2 through 49 years if healthy and not pregnant persons					
eellV/4	Flucelvax <sup>®</sup> Quadrivalent	Prefilled 0.5 mL syringe	6 months & older <sup>2</sup>					
ccliv4	(Segirus)	5.0 mL multi-dose vial <sup>4</sup>	6 months & older (0.5 mL) <sup>2</sup>					
RIV4 <sup>6</sup>	Flublok <sup>®</sup> Quadrivalent (Sanofi Pasteur)	Prefilled 0.5 mL syringe	18 years & older					
HD-IIV4 <sup>6</sup>	Fluzone <sup>®</sup> High-Dose (Sanofi Pasteur)	Prefilled 0.7 mL syringe <sup>2</sup>	65 years & older					
allV4 <sup>6</sup>	Fluad <sup>*3</sup> Quadrivalent (Segirus)	Prefilled 0.5 mL syringe	65 years & older					

#### Available VFC presentations are in gray boxes.

<sup>1</sup>Abbreviations: Inactivated Influenza <u>V</u>accine (IIV4), Adjuvanted (aIIV4), High-Dose (HD-IIV4), <u>Cell Culture-based (cclIV4),</u> <u>Recombinant Influenza <u>V</u>accine (RIV4); <u>Live Attenuated Influenza <u>V</u>accine (LAIV4). Numbers indicate number of flu virus antigens.</u></u>

<sup>2</sup>Dose volume for standard-dose IIV is based on age and flu vaccine product. For 3 years and older, dose volume is 0.5 mL regardless of flu vaccine product (exception: Fluzone High-Dose the correct volume is 0.7 mL). Dose volume for IIV4 vaccines for children aged 6-35 months: 0.25 mL per dose of Afluria; 0.5 mL per dose for Fluzina and FluLaval; either 0.25 mL per dose or 0.5 mL per dose of Fluzone. No preference is expressed for either Fluzone dose volume for this age group. Dose volume of ccllV4 vaccine for children aged 6 months and older: 0.05 mL per dose of FluceIvax. See "2022-23 Seasonal Influenza Vaccine Dose Volumes for Children" at <a href="https://www.michigan.gov/flu/resources/resources-for-health-professionals">www.michigan.gov/flu/resources/resources-for-health-professionals</a>.

<sup>3</sup>Fluad includes the adjuvant MF59C.1.

<sup>4</sup>Per the package inserts, for Afluria Quadrivalent, "once the stopper of the multi-dose vial has been pierced the vial must be discarded within 28 days. The number of needle punctures should not exceed 20 per multi-dose vial." For Fluzone Quadrivalent, "a maximum of 10 doses can be withdrawn from the multi-dose vial," even if drawing out 0.25 mL doses. A Flucelvax Quadrivalent multi-dose vial may be used up until the expiration date.

<sup>5</sup>Afluria is approved by the Food and Drug Administration for intramuscular administration with a PharmaJet<sup>®</sup> Stratis<sup>®</sup> Needle-Free Injection System for persons aged 18 through 64 years.

<sup>6</sup>ACIP recommends that adults aged 65 years and older preferentially receive any one of the following: HD-IIV4, RIV4, or alIV4. If none of these three vaccines is available at an opportunity for vaccine administration, then any other ageappropriate influenza vaccine should be administered.

Use this chart to help prevent errors. Highlight the flu vaccine(s) you have in your storage unit and know the age indications. Ensure you give the correct vaccine at the correct dose volume to the correct person based on age. For 2-dose recommendations, see "Who Needs 2 Doses of 2022-23 Seasonal Influenza Vaccine?" at <u>www.michigan.gov/flu/resources/resources-forhealth-professionals</u>. Refer to "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the ACIP—U.S., 2022-23 Influenza Season," MMWR Recomm Rep 2022;-71(1); 1-28, located at <u>www.cdc.gov/vaccines/hcp/acip-recs/vaccspecific/flu.html</u>. For additional information regarding flu and flu vaccination, refer to <u>www.michigan.gov/flu</u>, www.cdc.gov/vaccines, or <u>www.cdc.gov/mmwr</u>.

Michigan Department of Health and Human Services — Division of Immunization Rev. September 6, 2022

### Influenza Vaccine Dose Volumes

- Five IIV4 products are approved for persons 6 months and older
- For 6-35 months, dose volume depends on the flu vaccine product that is administered

For children aged 3 years and older, dose volume for SD-IIV is **0.5 mL** regardless of the flu vaccine product being administered

If You're Using This Vaccine	Dose Volume for Ages 6-35 Months		
Afluria (Seqirus)	0.25 mL per dose		
Fluarix, FluLaval (GSK), or Flucelvax (Sequirus),	<b>0.5 mL</b> per dose		
Fluzone (Sanofi Pasteur)	0.25 mL OR 0.5 mL per dose *No preference is expressed for either dose volume		

# 2-Dose Recommendation:6 Months-8 Years

- Number of doses needed is based on child's age at time of 1st dose of 2022-23 flu vaccine and # of doses of flu vaccine received in previous seasons
- How many seasonal (i.e., trivalent, quadrivalent) flu vaccines received before 7/1/2022
  - If 2 or more doses: give 1 dose this season
  - If only 1 dose or has NEVER received flu vaccine: give 2 doses this season (separate by 4 weeks)
- 2 doses do not need to be from the same season or consecutive seasons, need to be spaced at least 4 weeks apart
- Give 1st dose as soon as possible after vaccine is available, 2nd dose by end of October
- If the child turns 9 years between dose 1 and dose 2, still give dose 2

MCIR is programmed for 2-dose assessment. Make sure to use MCIR! <u>www.michigan.gov/flu</u>  $\rightarrow$  Resources  $\rightarrow$  Resources for Health Professionals

![](_page_11_Figure_9.jpeg)

## Flu Vaccination for Persons With Egg Allergy

- History of egg allergy and only hives after exposure to egg should receive flu vaccine
  - Use any licensed, recommended vaccine (i.e., any IIV4, RIV4, or LAIV4) otherwise appropriate for age/health status
- History of egg allergy and symptoms other than hives (e.g., angioedema or swelling, respiratory distress, lightheadedness, or recurrent vomiting) or required epinephrine/another emergency medical intervention:
  - Can receive any licensed, recommended vaccine (i.e., any IIV4, RIV4, LAIV4) otherwise appropriate for age/health status
  - If a vaccine other than ccIIV4 or RIV4 is used, administer it in an inpatient or outpatient medical setting
  - Supervised by health care provider able to recognize and manage severe allergic reactions

### Flu Vaccine & Egg Allergy, Cont'd.

- For persons who report egg allergy, it is not recommended to administer divided doses of flu vaccine or to do skin testing with the vaccine before administration
- No post-vaccination observation period is recommended specifically for egg-allergic persons
- Reminder: Screen and review vaccine specific contraindications and precautions

![](_page_13_Picture_4.jpeg)

![](_page_13_Picture_5.jpeg)

### Methods to Improve Coverage in Pregnant People

- Assure you are giving a strong recommendation
- AIMS Method<sup>2</sup>:
  - Announce: vaccination will happen, assume they are ready to vaccinate
  - Inquire: seek to understand the person by asking about their concerns
  - Mirror: make sure they know you understand their concerns by mirroring but not repeating and asking questions
  - Secure: consolidate every conversation by securing their trust

![](_page_14_Figure_7.jpeg)

- I. PRAMS data provided by P.I for the study, Peterson Haak, MDHHS
- 2. Created by John Parrish-Sprowl- Professor of Communication Studies; Director, Global Health Communication Center, Indiana University

### What you Say Matters

- Research shows a patient who receives a strong recommendation from a provider is 4-5 times more likely to be vaccinated
- Personalizing the message that vaccines are safe and effective can be powerful
  - Patients often are more likely to be persuaded by stories and anecdotes about the successes of vaccines

![](_page_15_Picture_4.jpeg)

## Strategies to Reinforce Vaccine Confidence Reduce Errors and Build Trust Through:

- Effective Communication-communicate transparently about the process for authorizing, approving, making recommendations for, monitoring the safety of, distributing, and administering vaccines.
- Knowing the Recommendations-provide regular updates on benefits, safety, side effects, and effectiveness; clearly communicate what is not known
- Storing and Handling Vaccine Appropriately-vaccines not handled properly can affect how well the vaccines work (efficacy)
- Administering Vaccine Appropriately

![](_page_16_Picture_5.jpeg)

## What is Vaccine Hesitancy

- Refers to the delay in acceptance or refusal of vaccines despite availability of vaccine services
- Is complex and context specific varying across time, place, and vaccines
- Is influenced by factors such as complacency, convenience, and confidence

### Willingness to Accept a Vaccine Falls on a Continuum

![](_page_18_Figure_1.jpeg)

## **Hesitancy Versus Refusal**

![](_page_19_Picture_1.jpeg)

- Those that fall in the middle are often referred to as Fence-sitters
  - They have questions and just want to know more about vaccines
- Fence-sitters versus anti-vaccinators
  - Not likely to convince the anti-vaccinator
- We need to remember
  - Questions do not equal opposition
  - Questions are an opportunity to educate
- A focus on educating fence-sitters will be more beneficial than trying to persuade those who completely oppose vaccines

## What Influences Vaccine Confidence

- Parents/patients express concerns about the safety
  - Ingredients, too many vaccines at one visit, and not properly tested
- Parents/patients are strongly influenced by other parents/individuals and what they read
  - Often through social media and news sources
- Parents/patients consider vaccines to be ineffective
- Parents/patients don't see disease as a risk
  - Susceptibility to disease and severity of disease

### Four Steps to Apply Motivational Interviewing

Rapid Encounters (1-5 minutes) During Patient Visit

STEP 1: Embrace an Attitude of Empathy and Collaboration  Be compassionate, show empathy, and be genuinely curious about the reasons why the patient feels the way they do.

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

 Remember: Arguing and debating do not work. Taking a strong initial stand may also backfire, especially with people who have concerns about vaccines.

Talking with Patients about COVID-19 Vaccination | CDC

Start by asking permission to discuss vaccines. Say something like, "If it is okay with you, I would like to spend a few minutes talking about COVID-19 vaccines and your family."

• If the patient says no, respect that.

- **Option 1:** Move on and say, *"I respect that, and because I care about your overall health, maybe we could talk about the vaccines at a future time."*
- **Option 2:** Based on the patient's demonstrated emotions and your assessment of the patient's worldview and values, you could spend several minutes curiously exploring why the patient doesn't want to talk about it. The goal is to understand, not to change their mind. Remember: These conversations may take time, and they may continue over multiple visits.
- If the patient says yes to talking about the vaccines, move to Step 3.
- If the patient asks a question about COVID-19 vaccine safety, vaccine risks, or their health or mental health, see potential responses in Step 4.

#### Talking with Patients about COVID-19 Vaccination | CDC

STEP 2: Ask Permission to Discuss Vaccines STEP 3: Motivational Interviewing Ask the patient a scaled question. For example, "On a scale of 1 to 10, how likely are you to get a COVID-19 vaccine?" (1 = never; 10 = already have an appointment to get vaccinated). Then explore both sides of whatever number is given.

• Example: Let's assume someone says 4. This is where curiosity comes in. You can say, "Okay, why 4? And why not a lower number?" Let them answer, and ask a follow-up question like, "What would help you move to a 5 or 6?"

### The goal is to help the patient become more open to moving toward higher numbers—in other words, getting vaccinated.

- You want them to **talk about this out loud** because talking changes how they process their choices and can develop forward momentum.
- People hesitant about vaccines usually have more practice explaining why they haven't gotten vaccinated, so it's good to reverse that. Ask them to express their vaccination benefits out loud.
- Be compassionate and curious about the patient's mixed feelings, both the part of them that wants to trust that getting a vaccine is important and safe and the other part that feels hesitant. It is important to show support for the patient to incorporate their personal values and the health needs of their family and community as they make their decision.

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.

- If you feel competent and aware of how to answer the patient's question, respond with empathy and provide scientific information as needed. Refer the patient to resources on the CDC website, which is listed below.
- If the patient's question is outside of your competence or awareness, recommend that they speak with their medical or mental health provider or a knowledgeable expert, as needed.

Talking with Patients about COVID-19 Vaccination | CDC

STEP 4: Respond to Questions about Vaccines, Health, or Mental Health

### Talking with Patients about COVID-19 Vaccination

- Your approach to a conversation with patients and families who are hesitant about receiving COVID-19 vaccines can influence their willingness to consider vaccination
- Research shows a patient who receives a strong recommendation from a provider is 4-5 times more likely to be vaccinated<sup>1</sup>
- 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

<sup>1</sup>Pinkbook: Vaccine Administration | CDC

## Addressing COVID-19 Vaccine Misinformation

- Listen to and analyze misinformation circulating in your community through social and traditional media monitoring
- Engage with and listen to your community to identify and analyze perceptions, content gaps, information voids, and misinformation
- Share accurate, clear, and easy-to-find information that addresses common questions. This
  can be done through your website, social media, and other places your audience looks for
  health information
- Use trusted messengers to boost credibility and the likelihood of being seen and believed over misinformation
- Monitoring misinformation through social listening is a key strategy to quickly identify and address misinformation about COVID-19 vaccines. This includes identifying trending inaccurate information, which, if not addressed, can lead to the spread of misinformation

## **Defining Misinformation**

# How does the sharing start?

![](_page_28_Figure_2.jpeg)

- Misinformation is false information shared by people who do not intend to mislead others
- The spread of misinformation on social media and through other channels can affect COVID-19 vaccine confidence
- Misinformation often arises when there are information gaps or unsettled science, as human nature seeks to reason, better understand, and fill in the gaps

### Answers to Common COVID-19 Vaccine Questions

Helping Patients/Parents Feel More Confident in Vaccination

## Severity of COVID-19 Infection

### COVID-19 isn't even really serious for kids, is it?

- COVID-19 can make children very sick
- Some children with COVID-19 need to be hospitalized and some children have died
- Children can also develop serious complications like multisystem inflammatory syndrome (MIS-C) — a condition where different body parts become inflamed, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs
- And some children can develop post-COVID complications (also called long-COVID)

For Parents: Multisystem Inflammatory Syndrome in Children (MIS-C) associated with COVID-19 | CDC Post-COVID Conditions | CDC

## **Potential Side Effects**

### What is the risk of myocarditis or pericarditis?

- Reports of heart inflammation in adolescents and young adults are rare.
- Most adolescents who have developed this condition after vaccination have responded well to medicine and rest and felt better quickly.
- Myocarditis/pericarditis after an mRNA vaccine is lower than the risk of myocarditis associated with COVID-19 infection in adolescents and adults.
  - If 100,000 males between 16 and 29 years of age got the mRNA vaccine, about 5 would experience myocarditis. However, if 100,000 males between 16 and 29 years of age were infected with the virus that causes COVID-19, about 59 would experience myocarditis. These numbers are lower in females.

<u>Myocarditis and Pericarditis After mRNA COVID-19 Vaccination | CDC; Questions and</u> <u>Answers about COVID-19 Vaccines | Children's Hospital of Philadelphia (chop.edu)</u>

## **Potential Side Effects**

### Does the COVID-19 vaccine cause fertility issues?

- **NO!** The COVID-19 vaccine will not affect fertility.
- Confusion arose when a false report stated that the spike protein on the coronavirus was similar to the spike protein found on the placenta. Fortunately, the fact is that these two proteins share only a small stretch of amino acids, which means they aren't similar enough to be confused for one another. Our body's antibodies know what to look for.
- Additionally, the COVID-19 vaccine is processed near the injection site, so it cannot cause hormonal or other biological changes that would be expected to affect either male or female infertility.
- After a year and millions of doses we know that the vaccine is safe and effective and does not pose any fertility risk.

Questions and Answers about COVID-19 Vaccines | Children's Hospital of Philadelphia (chop.edu)

## Vaccine Development Process

### How were the vaccines developed so quickly?

- Scientists have been working for many years to develop vaccines against viruses like the one that causes COVID-19.
- Any COVID-19 vaccine that is available for children has gone through the same approval process that is required for other vaccines – including routine childhood vaccines.
- None of the clinical trial steps were skipped and no corners were cut when it comes to safety.
- The U.S. government has invested substantial resources to manufacture and distribute COVID-19 vaccines. This allowed vaccine distribution to begin as soon as FDA authorized each vaccine.
- COVID-19 vaccine safety monitoring has been the most intense and comprehensive in U.S. history. Through several monitoring systems, CDC and FDA continue to provide updated information on the safety of these vaccines.

Frequently Asked Questions about COVID-19 Vaccination | CDC

## Previous COVID-19 Infection

### My child already had COVID, does he/she need vaccine, or can we test for antibodies?

- Vaccination should be offered to individuals regardless of history of prior COVID-19 infection.
- People who are unvaccinated have a higher risk of reinfection than those who are fully vaccinated following natural infection.
- Antibody testing is not currently recommended to assess the need for vaccination in an unvaccinated person or to assess for immunity to COVID-19 following COVID-19 vaccination.
- Current antibody tests have variable sensitivity, specificity, as well as positive and negative predictive values, and are not authorized for the assessment of immune response in vaccinated people.
- Serologic correlates of protection have not been established, and antibody testing does not evaluate the cellular immune response, which may also play a role in vaccine-mediated protection.

Interim Clinical Considerations for Use of COVID-19 Vaccines | CDC

#### Interactive COVID-19 Vaccine Conversations Module for Healthcare Professionals

![](_page_35_Picture_1.jpeg)

#### Talking with Patients about COVID-19 Vaccination

Welcome to the Interactive COVID-19 Vaccine Conversation Module for Healthcare Professionals (HCPs). This tool has been developed by Centers for Disease Control and Prevention in partnership with the U.S. Department of Veteran Affairs.

Whether in your office, hospital, or through a telehealth visit, building confidence in COVID-19 vaccination among your patients is critical to setting expectations, ensuring vaccine uptake, and helping protect our communities.

![](_page_35_Picture_5.jpeg)

Before beginning the interactive module, please review the following background information about the importance of vaccine confidence.

The Role of Healthcare Providers in Building Vaccine Confidence

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in real

#### 5 COVID-19 Vaccine Conversations in Practice: Case Scenarios

Now that we have covered the basics of vaccine confidence and some tips on how to have better conversations with

patient healthc

### **COVID-19 Vaccine Conversations Tool for**

### Healthcare Professionals | CDC

![](_page_36_Picture_0.jpeg)

This webpage will house materials to support COVID-19 Vaccine Providers in successful implementation of the CO Program. Be sure to "bookmark" this page and check back frequently for updates!

#### **GENERAL COVID-19 VACCINE RESOURCES**

COVID-19 Vaccine Resource Guide for Pfizer - Currently Under Revision

COVID-19 Vaccine Resource Guide for Moderna - Currently Under Revision

How to Opt-Out of an COVID-19 Vaccine Ancillary Kit - Updated 5/5/2022

COVID-19 Vaccines During Hospital Stays and Medical Appointments - Updated 6/14/21

COVID-19 Vaccination Clinic Preparation Checklist & Resource Toolkit- Updated 6/24/22

ACIP Recommendations for COVID-19 Vaccine

Interim Clinical Considerations for COVID-19 Vaccine

CDC COVID-19 Vaccine Resources for Healthcare Professionals

Vaccine administration, storage and handing, reporting, and patient education for each specific vaccine

COVID-19 Vaccine Training Module

- Self-paced module with certificate of completion (no CE)
- MDHHS strongly recommends that all COVID-19 Vaccine Providers complete this training.

CDC HCP Vaccine Administration Resource Library

Archived Resources

CONTENT-SPECIFIC COVID-19 RESOURCES

Webinars (Click here for more Information)

Upcoming Noontime Knowledge: TBD

**Education Corner - Email Archive** 

Enrollment

**Redistribution** 

Vaccine Billing and Vaccine Code Sets

### MDHHS COVID-19 Provider Guidance and Education Website www.michigan.gov/covidvaccineprovider

### Catch-Up on Vaccines

Ensure Your Patients are Up to Date

## COVID-19 Shouldn't be Our Only Focus

![](_page_38_Picture_1.jpeg)

Fewer childhood vaccines have been given during the COVID-19 pandemic\*

To avoid outbreaks of vaccine-preventable diseases and keep children protected, vaccinations and well-child visits are essential

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*Compared with January-April. 2019
bit.ly/MMWR5820 MMWR
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- After the COVID emergency declaration, routine pediatric vaccine ordering, and doses administered have declined
- To reduce the risk of Vaccine Preventable Disease (VPD) outbreaks, it is important to catch-up these children
- Remind parents of the vital need to protect their children against other serious VPD's

Image Courtesy of CDC

CDC.GOV

### Unsure of How to Catch a Child Up?

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	,	The table	below provid	des gi	age and int	formation o	on previous dose	s (previous dose	s must be docum	nented and mu	st meet minimum	Vaccine M	Minimum Age for	1	Minimum Interval Between Doses		
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with the ch and must r	hild's age a neet minim	minimum table 2 of	age requirem the Recomm	nents nende	Recommer www.cdc.g	nded Child a 10v/vaccine:	and Adolescent I s/schedules/hcp	mmunization Sc /child-adolescer	thedule for Ages 1 nt.html.	18 Years or You	inger, found at	Hopatitis B	Birth	4 weeks	8 weeks and at least 16 weeks after first dose. Minimum age for the final close is 24 weeks.		
table in co Schedule f	njunction v or Ages 18	found at y	AND # of	/vacc		AND # of previous						Rotamnus	6 weeks Maximum age for first dose is 14 weeks, 6 day	4 woeks	4 weeks Maximum age for final dose is 8 months, 0 days.		
adolescent	html.	IF current age is	previous docor is		IF current age is	doses of DTaP,	AND	AND	AND	THEN	Next dose due	Diphtheria, totanus, and aceilular pertussis	6 weeks	4 weeks	4 weeks	6 months	6 months
IF current age is	AND # of previous		0 or			DT, Td, or Tdap is						Haemophilus influenzae type b	6 weeks	No further doses needed if first dose was administered at age 15 months or	No further doses needed if previous dose was administered at age 15 months or older. 4 weeks	8 weeks (as final dose) This dose only necessary	
	Unknown		unknown			Unknown or 0	→	→	<b>→</b>	Give Dose 1 (Tdap) today	Give Dose 2 (Td or Tdap) at least 4 weeks after Dose 1			4 weeks	If current age is younger than 12 months and first dose was administered at younger than age 7 months and at least 1 previous dose was PIP-T (ActHb, Pentacel, Hibertk) or unknown.	59 months who received 3 dost	es
	or 0		1				Dose 1 was given before 12 months of age	→	$\rightarrow$	Give Dose 2 (Tdap) today	Give Dose 3 (Td or Tdap) at least 4 weeks after Dose 2			If first dose was administered before the 14 birthday. 8 weeks (as final dose)	8 weeks and age 12 through 59 months (as final dose) If current age is younger than 12 months and first close was administered at age 7 through 11 months; CR	Conversite 1 - De tribuy.	
4 through	1	6 months						It has been at least 4 weeks	Dose 1 was Tdap	Give Dose 2 (T or Tdap) today	Give Dose 3 (Td or Tdap) at least 6 calendar months			12 through 14 months.	If current age is 12 through 59 months and first dose was administered before the 1 <sup>st</sup> birthday and seco dose administered at younger than 15 months; OR	xd	
			2			1	Dose 1 was given at 12 months of	since Dose 1	Tdap	(Tdap) today	after Dose 2	Descence of conference	6 unreke	No further derar needed by healthy	If both doses were PRP-OMP (PedvaxHB, Corrwai) and were administered before the 1* birthday.	Rumake (as final data)	
	2						age or older	It has <b>not</b> been 4 weeks since Dose 1	Dose 1 was Tdap Dose 1 was <b>not</b>	No dose today	least 4 weeks after Dose 1 Give Dose 2 (Tdap) at least	rieditootca orgagae	o more	children if first dose was administered a age 24 months or older.	A weeks     If current age is younger than 12 months and previous dose was administered at <7 months old.	This dose only necessary for children age 12 through 59 months who received	
	Unknown or 0		0				Deer twee sizes	It has been at	Tdap Dose 2 was Tdap <sup>1</sup>	Give Dose 3 (T or Tdap) today	4 weeks after Dose 1 Give Dose 4 (Td or Tdap)			If first dose was administered before the 1º birthday.	8 weeks (as final dose for healthy children) 9 if previous dose was administered between 7–11 months (walt until at least 12 months old). OR 4 control to 13 months or offer and if least 1 does and others have an 13 months.	3 doses before age 12 months or for children at high risk who roceived 3 doses at any age.	
			C L	Dose 1 before	7 through 9 years <sup>1</sup>		before 12 months of age	since Dose 2	No dose was Tdap	Give Dose 3 (Tdap) today	at least 6 calendar months after Dose 3			children) If first dose was administered at the	In carrier age to an internation when and an reast 1 show manighted before age 14 tokents.		
	"		1	0				It has <b>not</b> been 4 weeks since	Dose 2 was Tdap	No dose today	Give Dose 3 (1d or 1dap) at least 4 weeks after Dose 2 Give Dose 3 (Tdap) at least	Inactivated policylrus	6 weeks	4 weeks	4 weeks if current age is < 4 years. 6 months (as final dose) if current age is 4 years or older.	6 months (minimum age 4 yea for final dose).	rs
	1		1 1	Dos				Dose 2	Tdap		4 weeks after Dose 2	Measles, mumps, rubella	12 months	4 woeks			
			1 1	gi		2		It has been at	Any dose was	Give Dose 3 (T	d	Varicella	12 months	3 months			
	F	7 through		7 mc		-		least 6 calendar	Tdap <sup>1</sup>	or Tdap) today	Give Tdap at	Hepatitis A	12 months	6 months			
7 through		II months	1 1	C		1		months since	No dose was	Give Dose 3	11–12 years of age <sup>1,2</sup>	Meningococcal ACWY	2 months MenACWY-	8 weeks	See Notes	See Notes	
11 months							Dose 1 was	Dose 2	Tdap	(Tdap) today			0 months MonACWY/D				
			1 1	Dos			given at		Any dose was		Give Dose 3 (Td or Tdap)		S INCOUNTS INCOMENTS				
			1 1	giver			12 months of age	It has not been	Tdap <sup>1</sup>		at least 6 calendar months				Children and adolescents age 7 through 18 years		
			1 1	7 mon			OF ORDER	6 calendar		No dose today	after Dose 2	Meningococcal ACWY	Not applicable (N/A)	8 weeks			
	2		2	Dos				Dose 2	No dose was Tdap		6 calendar months after Dose 2	Totanus, cliphthoria; totanus, cliphthoria, and acellular perilussis	7 years	4 wooks	4 weeks If first does of DTaP/DT was administered before the 14 birthday. 6 months (as final does)	6 months if first dose of DTaP/ DT was administered before the T <sup>#</sup> birthday.	D
			1 1	7 m	For persons 7	7-9 years of ag	e who receive a dose	e of idap, the routin	e adolescent 1dap dos	se should be admir	istered at age 11-12.	Lines an excelling solution	0 martin	Baseline desire betarents are concern	If this dose or Dravid) or idapvid was administered at or after the 1- brinday.		
	D		1 1	c	*Tdap may be	administered i	regardless of the inte	erval since the last te	tanus- and diphtheria	a-toxoid-containing	vaccine.	Human papitomawings	9 years	Routine dosing intervals are recomm	ernet.		
		Befor to the	notos of the Ress		Reference: Re	ecommended C	Child and Adolescent	Immunization Sched	lule for Ages 18 Years on hiped-schedule pdf	or Younger-Unite	d States, 2020.	Hepatitis R	nvn	e montre	Annaha an dat hant 16 marte affect data		
		immunizatio	nguidance for chi	ildren a		and the second second second	100 m 100	and the second second	and an interest of the			Proparties is	nere a	A works	o weeks and at least 10 weeks after first dose.	A freedbackers of the factor	
<sup>1</sup> Refer to notes Schedule for A guidance for ch Reference: Rec	of the Recomm ges 18 Years or Y hildren at increas commended Chik	Reference: F Ages 18 Year downloads/c	ecommended Chi s or Younger–Unit hild/0-18yrs-child	ild and ited Sta i-combi						CDC	U.S. Department of Health and Human Services Centers for Disease	inactivated policivinus	N/A	4 WOORS	<ul> <li>mommes</li> <li>A fourth dose is not necessary if the third dose was administered at age 4 years or older and at least 6 months after the previous dose.</li> </ul>	A routin dose of IPV is indicated if all previous doses were administered at <4 years or if th third dose was administered <6 months after the second dose.	d 5
downloads/chil	d/0-18yrs-child-								a second	en C	Some of and Prevention	Measles, mumps, rubella	N/A	4 wooks			
											-	Varicella	N/A	3 months if younger than age 13 years.			
	2020	Revised Februa	ry 2020		Revised Februar	ry 2020			1		CS249275-M	0.000000		4 weeks If age 13 years or older.			

### CDC Has Some Great Catch-Up Resources!

Immunization Resources: <a href="http://www.cdc.gov/vaccines/schedules/hcp/imz/catchup.html#guidance">www.cdc.gov/vaccines/schedules/hcp/imz/catchup.html#guidance</a>

### **2022 CDC Immunization Schedules**

#### For Health Care Providers

Child and Adolescent Immunization Schedule (birth through 18 years)

Child immunization schedule.

Adult Immunization Schedule (19 years and older)

Adults immunization schedule.

#### Resources for Health Care Providers

Health care professionals on a tablet.

#### For Parents

#### Easy-to-read child schedule.

<u>Parent-Friendly Schedule for Infants and Children</u> (<u>birth-6 years</u>)

#### Easy-to-read teen schedule.

Parent-Friendly Schedule for Preteens and Teens (7-<u>18 years)</u>

#### **COVID-19 Vaccination**

- <u>Up-to-date clinical information about the</u> <u>vaccines</u>
- Information for patients and consumers

#### **Related Pages**

#### **CDC Immunization Schedules**

## Herpes Zoster (HZ)

- RZV (Shingrix) is the vaccine for use in the prevention of herpes zoster
- Routine Recommendation:
  - Recommended for immunocompetent adults 50 years and older, including:
    - Adults with prior receipt of varicella vaccine, zoster vaccine live (ZVL), or herpes zoster episode
- Special Situations-NEW:
  - Recommended for use in persons 19 years and older who are or who will be immunodeficient or immunosuppressed because of disease or therapy

#### ACIP Zoster Vaccine Recommendations | Shingles | CDC

	RZV, Shingrix
Indication for Use:	Indicated for prevention of Herpes Zoster
Vaccine Type:	Inactivated Recombinant Vaccine
Age Indication:	50 years and older 19 years and older who are or will be immunodeficient or immunocompromised because of disease or therapy
Schedule:	2 doses given at 0 and 2-6 months Absolute minimum interval: 4 weeks
Administration:	IM (reconstitute prior to use)
Storage:	Store in Refrigerator
Vaccination and Disease History:	<ul> <li>Give regardless of prior receipt of:</li> <li>Varicella vaccine-wait 2 months from varicella dose</li> <li>ZVL (Zoster Vaccine Live-Now Discontinued)-wait 2 months from ZVL dose</li> <li>Herpes zoster episode</li> </ul>

### Pneumo Recs VaxAdvisor Mobile App for Providers

![](_page_43_Picture_1.jpeg)

PneumoRecs VaxAdvisor is available for download on iOS and Android mobile devices.

- Quickly and easily determine which pneumococcal vaccines a patient needs and when
- Incorporates recommendations for all ages so internists, family physicians, pediatricians, and pharmacists alike will find the tool beneficial
- Free download on IOS or Android Devices
- Desktop Version also available

PneumoRecs VaxAdvisor: Vaccine Provider App | CDC

### Pneumococcal Vaccines

- There are 2 types of Pneumococcal Vaccines in the U.S.:
  - Pneumococcal Conjugate Vaccines (PCV13, PCV15, PCV20)
  - Pneumococcal Polysaccharide (PPSV23)
- Recommendations are based on age and medical condition
- Children Younger Than 2 Years:
  - Give 1 dose of either PCV13 or PCV15 at 2 months, 4 months, 6 months, and 12 through 15 months
- Catch-Up Vaccination for Healthy 2 through 4 Year Old's:
  - 1 dose of either PCV13 or PCV15 with any incomplete PCV series
  - For other catch-up guidance, see CDC's job aide: <u>Pneumococcal Conjugate Vaccine</u> (PCV)-Catch-up Guidance for Healthy Children 4 months through 4 years of Age (cdc.gov)

### Pneumococcal Vaccines for 2 through 5 Year Olds With Certain Medical Conditions

Medical Condition	PCV	PPSV23
CSF Leak, Cochlear Implant, Chronic Heart, Chronic Lung, Diabetes	<ul> <li>2 doses of either PCV13 or PCV15 if unvaccinated or received an incomplete PCV series with less than 3 doses (2nd dose at least 8 weeks after the first)</li> </ul>	<ul> <li>1 dose of PPSV23 at least 8 weeks after the PCV series is complete</li> </ul>
Chronic Renal Failure, Nephrotic Syndrome, Congenital Immunodeficiency, Functional or Anatomic Asplenia, HIV, Sickle Cell, and Diseases treated with immunosuppressive drugs or radiation therapy	OR • 1 dose of either PCV13 or PCV15 if they received 3 doses of PCV but none were given after 12 months of age	<ul> <li>2 doses of PPSV23 after the PCV series is complete. Give the first dose at least 8 weeks after any prior PCV dose, then give the second dose of PPSV23 at least 5 years after the first PPSV23 dose</li> </ul>

#### Recommended Child and Adolescent Immunization Schedule (cdc.gov)

### Pneumococcal Vaccines for 6 through 18 Year Olds With Certain Medical Conditions

Medical Condition	PCV13	PPSV23
Chronic Heart, Chronic Lung, Diabetes		<ul> <li>Give 1 dose of PPSV23 (if not already given earlier in childhood)</li> </ul>
CSF Leak, Cochlear Implant	<ul> <li>1 dose of either PCV13 or PCV15 if they have not received any doses of PCV.</li> <li>Administer either PCV13 or</li> </ul>	<ul> <li>1 dose of PPSV23 (if not already given earlier in childhood) at least 8 weeks after PCV</li> </ul>
Chronic Renal Failure, Nephrotic Syndrome, Congenital Immunodeficiency, Functional or Anatomic Asplenia, HIV, Sickle Cell, and Diseases treated with immunosuppressive drugs or radiation therapy	PCV15 before giving any recommended doses of PPSV23	<ul> <li>Ensure the child receives 2 doses of PPSV23. The first dose of PPSV23 should be given at least 8 weeks after any prior PCV dose, then the second dose of PPSV23 should be given at least 5 years after the first dose of PPSV23</li> </ul>

#### Recommended Child and Adolescent Immunization Schedule (cdc.gov)

#### Table 1 Recommendations for adults who have never received a pneumococcal conjugate vaccine,

by underlying medical condition or other risk factor and age group

Underlying medical condition or other risk factor	19 through 64 years old	≥ 65 years old			
None	Not recommended	Administer 1 dose of PCV20 OR 1 dose of PCV15 followed by 1 dose of PPSV23 at least 1 year later			
Alcoholism					
Chronic heart disease <sup>†</sup>					
Chronic liver disease					
Chronic lung disease <sup>§</sup>					
Cigarette smoking					
Diabetes mellitus					
Cochlear implant		Administer			
Cerebrospinal fluid leak	Administer	1 dose of PCV20 OB			
Chronic renal failure*	1 dose of PCV20	1 dose of PCV15 followed by			
Congenital or acquired asplenia*	1 dose of PCV15 followed by	1 dose of PPSV23 at least 1 year later The minimum interval (8 weeks) can be considered in adults with an immunocompromising			
Congenital or acquired immunodeficiency*1	1 dose of PPSV23 at least 1 year later				
Generalized malignancy*	Can be considered in adults				
HIV infection*	with an immunocompromising	condition, cochlear implant, or cerebrospinal fluid leak			
Hodgkin disease*	condition, cochlear implant, or	Reminder: No additional doses are			
latrogenic immunosuppression*1	cerebrospinai nuio ieak.	indicated at this age if PCV15 or PCV20			
Leukemia*		were administered at a younger age.			
Lymphoma*					
Multiple myeloma*					
Nephrotic syndrome*					
Sickle cell disease/other hemoglobinopathies*					
Solid organ transplant*					

- Considered an immunocompromising condition
- <sup>†</sup> Includes congestive heart failure and cardiomyopathies
- Includes chronic obstructive pulmonary disease, emphysema, and asthma
- Includes B- (humoral) or T-lymphocyte deficiency, complement deficiencies (particularly C1, C2, C3, and C4 deficiencies), and phagocytic disorders (excluding chronic granulomatous disease)
- Includes diseases requiring treatment with immunosuppressive drugs, including long-term systemic corticosteroids and radiation therapy

#### Use of 15-Valent Pneumococcal Conjugate Vaccine and 20-Valent Pneumococcal Conjugate Vaccine

#### Table 2 Number and timing of PPSV23 doses for patients who previously received PCV13 but who have not received all recommended doses of PPSV23, by medical condition

PCV13 but have not completed their recommended pneumococcal vaccine series with PPSV23, one dose of PCV20 may be used if PPSV23 is not available. If PCV20 is used, their pneumococcal vaccinations are complete.

Underlying medical	PPSV23** for 19	through 64 year	PPSV23** at ≥ 65 years	* Considered an		
condition or other risk factor	Recommended	Revaccination	Recommended	immunocompromising condition		
None	Not recommended	Not recommended	At least 1 year after PCV13 dose	<ul> <li>Includes congestive heart failure and cardiomyopathies</li> <li>Includes chronic obstructive</li> </ul>		
Alcoholism Chronic heart disease <sup>†</sup> Chronic liver disease Chronic lung disease <sup>§</sup> Cigarette smoking Diabetes mellitus	Not recommended	Not recommended	At least 1 year after PCV13 dose and at least 5 years after any PPSV23 dose at < 65 years	<ul> <li>pulmonary disease, emphysema and asthma</li> <li>Includes B- (humoral) or T-lymphocyte deficiency, complement deficiencies (particularly C1, C2, C3, and C4 deficiencies), and phagocytic</li> </ul>		
Cochlear implant Cerebrospinal fluid leak	At least 8 weeks after PCV13 dose	Not recommended	At least 8 weeks after PCV13 dose and at least 5 years after last PPSV23 dose at < 65 years	disorders (excluding chronic granulomatous disease) <sup>‡</sup> Includes diseases requiring treatment with		
Chronic renal failure* Congenital or acquired asplenia* Congenital or acquire immunodeficiency* <sup>11</sup> Generalized malignancy* HIV infection* Hodgkin disease* Iatrogenic immunosuppression** Leukemia* Lymphoma* Multiple myeloma* Nephrotic syndrome* Sickle cell disease/other hemoglobinopathies* Solid organ transplant*	At least 8 weeks after PCV13 dose	✓ At least 5 years after first PPSV23 dose	At least 8 weeks after PCV13 dose and at least 5 years after last PPSV23 dose at < 65 years	<ul> <li>immunosuppressive drugs, including long-term systemic corticosteroids and radiation therapy</li> <li>** For adults who have received PCV13 but have not completed their recommended pneumococc vaccine series with PPSV23, one dose of PCV20 may be used if PPSV23 is not available. If PCV2 is used, their pneumococcal vaccinations are complete.</li> </ul>		

Use of 15-Valent Pneumococcal Conjugate Vaccine and 20-Valent Pneumococcal Conjugate Vaccine

![](_page_49_Figure_0.jpeg)

## Coadministration

- COVID-19 vaccines and other vaccines (i.e., flu) may be administered without regard to timing
  - Simultaneous administration of COVID-19 vaccines on the same day or at any time before or after another vaccine
- Applicable to **ALL** other vaccines
  - Non-live
  - Live, attenuated

https://www.cdc.gov/vaccines/covid-19/clinical-considerations/covid-19-vaccines-us.html

### Resources

## **CDC Resources on Building Vaccine Confidence**

- What Is Vaccine Confidence? | CDC
- Vaccinate with Confidence COVID-19 Vaccines Strategy for Adults | CDC
- How to Address COVID-19 Vaccine Misinformation | CDC
- How to Tailor COVID-19 Vaccine Information to Your Specific Audience | CDC
- <u>Resources to Promote COVID-19 Vaccines for Children & Teens | CDC</u>
- <u>Strategies for Reaching People with Limited Access to COVID-19 Vaccines | CDC</u>
- <u>12 COVID-19 Vaccination Strategies for Your Community | CDC</u>

## Michigan's Annual Immunization Conferences

- The 2022 MDHHS Fall Immunization Conferences will be held inperson this year. Upcoming conferences include:
  - October 31<sup>st</sup>-8:00a.m.-4:00p.m.-Lansing
  - November 1<sup>st</sup>-8:00a.m.-4:00p.m.-Kalamazoo
  - November 2<sup>nd</sup>-8:00a.m.-4:00p.m.-Flint
- Registration is Open! Register here: https://register2022.mihealth.org

## In Summary

- Despite the success of vaccines, vaccine hesitancy is a common barrier to vaccination
- Factors that affect vaccine confidence include concerns about safety, vaccine effectiveness, social media and news influences, and the perception of disease risk
- Focus on educating the Fence-sitters as opposed to focusing on those who completely oppose vaccinations
- Research shows a patient who receives a strong recommendation from a provider is 4-5 times more likely to be vaccinated
- Motivational Interviewing is an evidence-based and culturally sensitive way to speak with unvaccinated patients about getting vaccinated
- Help reduce errors and build trust through effective communication, being knowledgeable about vaccine recommendations, storing, handling, and administering vaccines appropriately
- Catch-up children who are behind and strongly recommend Flu vaccine

![](_page_55_Picture_0.jpeg)

### Remember...

They are counting on you!

Ensure that **ALL** your patients are protected against Vaccine Preventable Diseases

![](_page_55_Picture_4.jpeg)