Pediatric and Adult Influenza Recommendations 2023-2024 Season

Michigan Physician Peer Education Project On Immunizations

October 2023



Presenter Disclosure

• ACCME Disclosure

Pediatric and Adult Influenza Update Objectives

- Discuss influenza disease rates, surveillance, and vaccine coverage levels
- Discuss influenza vaccine recommendations
- Identify strategies to improve influenza vaccination rates



Influenza Disease Burden

- Difficult to predict severity and timing
- Rates of serious illness and death are greatest in:
 - Persons aged 65 years and older
 - Children less than 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)²
 - We need more ILINet providers!
 - For more information email, <u>DoeblerM@michigan.gov</u>



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

Influenza-Associated Pediatric Deaths

- Became nationally reportable in 2004 for people younger than 18 years of age
- Total influenza-associated pediatric deaths in the U.S. by season are listed in the table below:

Seasons	Total Deaths
2019-20	199
2020-21	1
2021-22	49
2022-23	177

- "Influenza-Associated Pediatric Deaths in the United States, 2010–2016²"
 - Published February 2018
 - Average annual number: 113
 - Highest incident rate among children less than 6 months (0.66 per 100,000)
 - 65% died within a week of symptom onset
 - Half had no pre-existing medical conditions
 - Only 31% of children 6 months and older had received any flu vaccinations

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

2. https://pediatrics.aappublications.org/content/141/4/e20172918

2023-2024 Influenza Vaccination Strains

• Egg-based IIV4s and LAIV4

- A/Victoria/4897/2022 (H1N1) pdm09-like
- A/Darwin/9/2021 (H3N2)-like
- B/Austria/1359417/2021 (Victoria lineage)-like
- B/Phuket/3073/2013 (Yamagata lineage)-like
- Cell-culture-based IIV4 and RIV4
 - A/Wisconsin/67/2022 (H1N1) pdm09-like
 - A/Darwin/6/2021 (H3N2)-like
 - B/Austria/1359417/2021 (Victoria lineage)-like
 - B/Phuket/3073/2013 (Yamagata lineage)-like

Red type denotes change compared to 2022-2023

Recommended composition of influenza virus vaccines for use in the 2023-2024 northern hemisphere influenza season (who.int)

Flu Season Timing



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

2023-2024 Seasonal Influenza Vaccine Recommendations

ACIP RECOMMENDATIONS

FLU VACCINE TIMING

INFLUENZA VACCINE PRODUCTS

2023-2024 Influenza Recommendations

Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2023–24 Influenza Season

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Summary

This report updates the 2022–23 recommendations of the Advisory Committee on Immunization Practices (ACIP) concerning the use of seasonal influenza vaccines in the United States (MMWR Recomm Rep 2022;71[No. RR-1]:1–28). Routine annual influenza vaccination is recommended for all persons aged 26 months who do not have contraindications. All seasonal influenza vaccines expected to be available in the United States for the 2023–24 season are quadrivalent, containing hemaggluinin (HA) derived from one influenza A(H1N1) Jpdm09 virus, one influenza A(H3N2) virus, one influenza BV/storia lineage virus, and one influenza BI/Samagata lineage virus. Inactivated influenza vaccines (IIV4s), recombinant influenza vaccine (RIV4), and live attenuated influenza vaccine (L1V4) are expected to be available.

For most persons who need only 1 dose of influenza vaccine for the season, vaccination should ideally be offered during September or October. However, vaccination should continue after October and throughout the season as long as influenza viruses are circulating and unexpired vaccine is available. Influenza vaccines might be available as early as July or August, but for most adults (particularly adults aged 265 years) and for pregnant persons in the first or second trimester, vaccination during July and August should be avoided unless there is concern that vaccination later in the season might not be possible. Certain children aged 6 months through 8 years need 2 doses; these children should receive the first dose as soon as possible after vaccine is available, including during July and August. Vaccination during July and August can be considered for children of any age who need only 1 dose for the season and for pregnant persons who are in the third trimester during these months if vaccine is available.

ACIP recommends that all persons aged ≥ 6 months who do not have contraindications receive a licensed and age-appropriate seasonal influenza vaccine. With the exception of vaccination for adults aged ≥ 65 years, ACIP makes no preferential recommendation for a specific vaccine when more than one licensed, recommended, and age-appropriate vaccine is available. ACIP recommends that adults aged ≥ 65 years preferentially receive any one of the following higher dose or adjuvanted influenza vaccine: quadrivalent highdose inactivated influenza vaccine (HD-IIV4), quadrivalent recombinant influenza vaccine (RIV4), or quadrivalent adjuvanted inactivated influenza vaccine (aIIV4). If none of these three vaccines is available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be used.

Primary updates to this report include the following two topics: 1) the composition of 2023–24 U.S. seasonal influenza vaccines and 2) updated recommendations regarding influenza vaccination of persons with egg allergy. First, the composition of 2023– U.S. influenza vaccines includes an update to the influenza A(H1N1)pdm09 component. U.S.-licensed influenza vaccines will contain HA derived from 1) an influenza A/Victoria/4897/2022 (H1N1)pdm09-like virus (for egg-bused vaccines) or an influenza A/Visconsin/67/2022 (H1N1)pdm09-like virus (for cell culture-based and recombinant vaccines); 2) an influenza ADarwin/9/2021 (H3N2)-like virus (for egg-based vaccines) or an influenza A/Darwin/9/2021 (H3N2)-like virus (for (for cell culture-based and recombinant vaccines); 3) an influenza B/Austria/1359417/2021 (Victoria lineage)-like virus; and 4) an influenza B/Dhuke/13073/2013 (Yamagata lineage)-like virus. Second, ACIP recommends that all persons aged 56 months with egg allergy should receive influenza vaccine. Any influenza vaccine (egg based or nonegg based) that is otherwise appropriate for the recipient's age and health status can be used. It is no longer recommended that persons who have head an allergic reaction to egg involving symptoms other than urticaria should be vaccinated in an inpatient or outpatient medical setting supervised by a balth care provider who is able to recognize and manage severe allergic reactions if an egg-based vaccine is used. Egg allergy alone necessitates no additional safety measures for influenza vaccination beyond those recommended for any recipient of any vaccine.

Corresponding author: Lisa A. Grohskopf, Influenza Division, National Center for Immunization and Respiratory Diseases, CDC. Telephone: 404-639-2552; Email: lgrohskopf@cdc.gov. regardless of severity of previous reaction to egg. All vaccines should be administered in settings in which personnel and equipment needed for rapid recognition and treatment of acute hypersensitivity reactions are available. <u>Prevention and Control of</u> <u>Seasonal Influenza with</u> <u>Vaccines: Recommendations</u> <u>of the Advisory Committee on</u> <u>Immunization Practices —</u> <u>United States, 2023–24</u> <u>Influenza Season | MMWR</u> <u>(cdc.gov)</u>

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Core Influenza Vaccine Recommendations



Photo Courtesy of the National Museum of Health and Medicine

- Recommended for all person's 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 ageappropriate product is available
- Vaccinate close contacts of those at high risk to provide another layer of protection including
 - Health Care Personnel (HCP)
 - Parents/Caretakers of infants less than 6 months of age
- Continue to ensure that persons at higher risk for influenza related complications are vaccinated

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 between doses: 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.



- 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 2023-2024 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 (ccllV4)
 - 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 2023-2024 season are quadrivalent

A Look At IIV4

IIV4¹

Flu Strains: 2 A, 2 B

Product Type: Egg-based, standard-dose (SD), unadjuvanted

Age Indication: 6 months and older

Route: IM (Intramuscularly)

For persons who are healthy, have any underlying medical conditions, or who are pregnant

¹Inactivated influenza vaccines labeled for IM administration **must** be given IM; if not dose must be repeated.

"Quick Look at Inactivated Influenza Vaccines (Quadrivalent): IIV4, High-Dose IIV4 (HD-IIV4), and Adjuvanted IIV4 (aIIV4), 2023-24": at <u>www.michigan.gov/flu</u>

A Look at HD-IIV4 and aIIV4

HD-IIV4 (Fluzone [®] High-Dose Quadrivalent)	allV4 (Fluad [®] Quadrivalent)	
Flu Strains: 2 A, 2 B		
Route: Give intramuscularly (IM)		
Age Indication: 65 years and older		
Has 4x more antigen than SD flu vaccine	igen Adjuvant (MF59) added to create stronger immune cine response	
For persons who are healthy or have any underlying medical conditions		

Age indication varies by flu vaccine product; triple check the vaccine you are using before administering Inactivated influenza vaccines labeled for IM administration **must** be given IM; if not dose must be repeated.

"Quick Look at Inactivated Influenza Vaccines (Quadrivalent): IIV4, High-Dose IIV4 (HD-IIV4), and Adjuvanted IIV4 (aIIV4), 2023-24" at <u>www.michigan.gov/flu</u>

A Look at ccIIV4 and RIV4

ccIIV4 (Flucelvax [®] Quadrivalent)	RIV4 (Flublok [®] Quadrivalent)		
Flu Strains: 2 A, 2 B			
Route: Give intramuscularly (IM)			
Age: 6 months and older	Age: 18 years and older		
Produced in a mammalian cell line Produced in an insect cell lin			
For persons who are healthy, have any underlying medical conditions, or who are pregnant			

"Quick Look at 2023-24 Cell Culture-based Inactivated Influenza Vaccine (Quadrivalent): ccIIV4 2023-24" and "Quick Look at Recombinant Influenza Vaccine (Quadrivalent): RIV4, 2023-24": <u>www.Michigan.gov/flu</u>

A Look at LAIV4

LAIV4 (FluMist[®] Quadrivalent)

Flu Strains: 2 A, 2 B

Route: Administered intranasally (IN/NAS)

Age Indication: 2-49 years (healthy, not pregnant)

Remember: Do not miss an opportunity to vaccinate, use any age-appropriate flu vaccine that is available!

"Quick Look at Live Attenuated Influenza Vaccine (Quadrivalent): LAIV4, 2023-24", at <u>www.michigan.gov/flu</u>

Influenza vaccination for persons 65 years and older

- 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 (aIIV4)
- If none of these three vaccines are available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be administered

2023-24 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

<u>www.michigan.gov/flu</u> \rightarrow Resources \rightarrow Resources for Health Professionals

Vaccine Type ¹	Brand	Presentation	Age Indication ²
		QUADRIVALENT	
IIV4	Fluarix [®] Quadrivalent (GlaxoSmithKline)	Prefilled 0.5 mL syringe	6 months & older ²
IIV4	FluLaval [®] Quadrivalent (GlaxoSmithKline)	Prefilled 0.5 mL syringe	6 months & older ²
11V4		5.0 mL multi-dose vial ⁴	6 through 35 months (0.25 or 0.5 mL)
	Fluzone [®] Quadrivalent (Sanofi Pasteur)		3 years & older (0.5 mL)
		Prefilled 0.5 mL syringe	Consulta Distanza
		0.5 mL single-dose vial	6 months & older -
		5.0 mL multi-dose vial ^{4,5}	6 through 35 months (0.25mL) ²
IIV4	Afluria [®] Quadrivalent (Seqirus)		3 years & older (0.5 mL)
		Prefilled 0.5 mL syringe	3 years & older
LAIV4	FluMist [®] Quadrivalent (AstraZeneca)	Prefilled 0.2 mL single-use intranasal sprayer	2 through 49 years if healthy and not pregnant persons
ccIIV4	Flucelvax [®] Quadrivalent (Seqirus)	Prefilled 0.5 mL syringe	6 months & older ²
		5.0 mL multi-dose vial ⁴	6 months & older (0.5 mL) ²
RIV4 ⁶	Flublok [®] Quadrivalent (Sanofi Pasteur)	Prefilled 0.5 mL syringe	18 years & older
HD-IIV4 ⁶	Fluzone [®] High-Dose (Sanofi Pasteur)	Prefilled 0.7 mL syringe ²	65 years & older
allV4 ⁶	Fluad ^{*3} Quadrivalent	Prefilled 0.5 mL syringe	65 years & older

Available VFC presentations are listed above in gray boxes.

¹Abbreviations: Inactivated Influenza Vaccine (IIV4), Adjuvanted (aIIV4), High-Dose (HD-IIV4), <u>Cell Culture-based (ccIIV4),</u> <u>Recombinant Influenza V</u>accine (RIV4); <u>Live A</u>ttenuated Influenza <u>V</u>accine (LAIV4). Numbers indicate number of flu virus antigens.

²Dose 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 Alfunia; 0.5 mL per dose for Fluzavia; and Fluzavia; elither 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 cclIV4 vaccine for children aged 6 months and older: 0.5 mL per dose of FluzeVax. See "2023-24 Seasonal Influenza Vaccine Dose Volumes for children' at www.michigan.gov/flu/resources/resources.for-health-professionals.

³Fluad includes the adjuvant MF59C.1.

⁴Per 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.

⁵Afluria is approved by the Food and Drug Administration for intramuscular administration with a PharmaJet^{*} Stratis^{*} Needle-Free Injection System for persons aged 18 through 64 years.

⁶ACIP 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 are available at an opportunity for vaccine administration, then any other age-appropriate 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 2023-24 Seasonal Influenza Vaccine?" at <u>www.michigan.gov/flu/resources/resources-for-</u> health-professionals. Refer to Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory. <u>Committee on Immunization Practices — United States, 2023-24 Influenza Season I. MMWR (cdc.gov)</u>, located at <u>www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/flu.html</u>. For additional information regarding flu and flu vaccination, refer to <u>www.Michigan.gov/flu, www.cdc.gov/vaccines.or</u>

Michigan Department of Health and Human Services — Division of Immunization Rev. August 30, 2023

Flu Vaccine Guidance for Use in Children

PEDIATRIC DOSE VOLUMES

NUMBER OF DOSES NEEDED IN 2023-2024 SEASON

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

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)	0.5 mL per dose	
Fluzone (Sanofi Pasteur)	0.25 mL OR 0.5 mL per dose *No preference is expressed for either dose volume	

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

<u>www.michigan.gov/flu</u> \rightarrow Resources \rightarrow Resources for Health Professionals

Influenza Vaccine Dose Volumes, Cont.

- Prevent flu vaccine administration errors in children-review guidance document
- For IIV4 the needed volume for a child aged 6-35 months may be administered from a manufacturer supplied prefilled syringe, a single-dose vial, or multi-dose vial
 - If 0.25 mL is used from a Fluzone Quadrivalent 0.5 mL single-dose vial, then the 0.25 mL remaining in the singledose vial must be discarded

2023-24 Seasonal Influenza Vaccine Dose Volumes for Children

Everyone aged 6 months and older should receive flu vaccine every year.

Flu vaccine dose volume is based on the person's **age and the flu vaccine product** that is used.¹ Among vaccine errors reported between June 2020 and December 2021, wrong vaccine (24%) and wrong age (13%) were listed as numbers 1 and 3 of the most frequent types of vaccine events other than those related to COVID-19 vaccines. Wrong age and associated wrong dose errors occurred frequently between age-related formulations of influenza vaccines (31%).² It is important to prevent flu vaccine administration errors to ensure children are adequately protected against flu.

For children aged **6 through 35 months**, flu vaccine dose volume is **dependent on the product that is administered**. There are multiple licensed inactivated influenza vaccines, quadrivalent (IIV4) available for children aged 6 through 35 months: Afluria[®] Quadrivalent, FluLaval[®] Quadrivalent, Fluarix[®] Quadrivalent, and Fluzone[®] Quadrivalent. The cell cultured-based inactivated influenza vaccine (ccIIV4) is available for persons aged 6 months and older (Flucelvax[®] Quadrivalent).

Dose Volume for Ages 6-35 Months	
0.25 mL per dose	
0.5 mL per dose	
0.25 mL OR 0.5 mL per dose *No preference is expressed for either dose volume.	
Dose Volume for Ages 6-35 Months	
0.5mL per dose	

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

If 2 doses of 2023-24 flu vaccine are needed³, the same vaccine product **does not** need to be used for both doses. Use any age-appropriate flu vaccine that is available that day, ensuring you use the correct dose volume for the product you are administering.

Don't miss an opportunity to vaccinate! Dose volume is based on the child's age on the day of vaccine administration. For example:

- If a child is aged 2 years and 11 months for dose 1, use the above table to determine dose volume based on the IIV/ccIIV product used.
- When the child returns 4 weeks later for dose 2 and is now aged 3 years, the dose volume is 0.5 mL regardless of the IIV/ccIIV product used.

For IIV, the needed volume for a child aged 6 through 35 months may be administered from a prefilled syringe containing the appropriate volume (as supplied by the manufacturer), a single-dose vial, or a multi-dose vial. Further Guidance on Fluzone Quadrivalent:

NOTE: Fluzone Quadrivalent is approved for children aged 6 through 35 months at either 0.25 mL or

Health Professionals

 $\frac{WWW.michigan.gov/flu}{M} \rightarrow Resources \rightarrow Resources for$

per dose. August 30, 2023 Page 1 of 2

syringe of

2-Dose Recommendation for Children 6 months-8 years

- # of doses needed is based on child's age at time of 1st dose of 2023-24 flu vaccine and # of doses of flu vaccine received in previous seasons
- Assess how many seasonal flu vaccines (i.e., trivalent, quadrivalent) received before 7/1/2023
 - 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 so 2nd dose can be received 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. Use MCIR and be sure to put doses into MCIR!

Flu Vaccine and Pregnancy

Pregnancy Flu Vaccine Recommendation

- Pregnant and postpartum persons have been observed to be at higher risk for severe illness and complications from flu, particularly during 2nd and 3rd trimesters
- Flu vaccination during pregnancy lowers risk of flu hospitalization in pregnant persons by average 40%, in babies less than 6 months old by average 72%
- ACIP and ACOG recommend that:
 - All persons who are pregnant or who might be pregnant or postpartum during the flu season receive flu vaccine
 - Any licensed, recommended, and age-appropriate IIV or RIV4 may be used (LAIV4 should not be used during pregnancy)
 - Administer at any time during pregnancy, before and during the flu season
- 1. Influenza Vaccination During Pregnancy (acog.org)
- 2. Low Rates of Vaccination During Pregnancy Leave Moms, Babies Unprotected (cdc.gov)
- 3. Flu & Pregnancy | CDC



Recommendations

The American College of Obstetricians and Gynecologists (ACOG) makes the following recommendations: • The Centers for Disease Control and Prevention's

The American College of Obstetricians and Gynecologists

> immunization for themselves and their fetuses and advocate for the benefits of passive immunity from maternal immunization for their newborns.

 Obstetrician-gynecologists are encouraged to stock and administer the influenza vaccine to their preg-

Influenza Vaccination Administration

SCREENING FOR VACCINATION

EGG ALLERGY

VACCINE ADMINISTRATION

COADMINISTRATION

Screening for Contraindications and Precautions

- Screen for contraindications and precautions every time vaccines are indicated
- Use a standardized form
- Help prevent vaccine errors
- Follow only valid contraindications and precautions
- Document any permanent or temporary contraindications/precautions in the chart/EMR

<u>Screening Checklists about Vaccine</u> <u>Contraindications and Precautions (immunize.org)</u>



Contraindications to Flu Vaccine

- IIV4/LAIV4: History of severe allergic reaction to any component of the vaccine* or to a previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV)
- ccIIV4: History of severe allergic reaction to a previous dose of any ccIIV or any component of ccIIV4
- RIV4: History of severe allergic reaction to a previous dose of any RIV or any component of RIV4
- LAIV4:
 - Concomitant aspirin- or salicylate-containing therapy (children and adolescents)
 - Children aged 2-4 years with a history of asthma or documented wheezing episode in the past 12 months
 - Immunocompromised due to any cause, including immunosuppression caused by medications, congenital or acquired immunodeficiency states, HIV infection, anatomic asplenia, or functional asplenia (e.g., sickle cell anemia)
 - Close contacts/caregivers of severely immunosuppressed persons who require a protected environment
 - Pregnancy
 - Active communication between CSF and oropharynx, nasopharynx, nose, or ear or any other cranial CSF leak
 - Cochlear implants
 - Receipt of flu antivirals within previous 48 hours (oseltamivir, zanamivir), previous 5 days (peramivir), previous 17 days (baloxavir)

*However, ACIP recommends that persons with history of egg allergy may receive any flu vaccine otherwise appropriate for their age/health status

Precautions to Flu Vaccine

- IIV4/ccIIV4/RIV4/LAIV4: Moderate or severe acute illness with or without fever and history of Guillain-Barré syndrome within 6 weeks of previous flu vaccine
- ccIIV4: History of severe allergic reaction to a previous dose of any other influenza vaccine (i.e., any egg-based IIV, RIV, or LAIV)*
- RIV4: History of severe allergic reaction to a previous dose of any other influenza vaccine (i.e., any egg-based IIV, ccIIV, or LAIV)*
- LAIV4:
 - Asthma in persons aged 5 years and older
 - Other underlying medical conditions that might predispose to complications after wild-type influenza infection (e.g., chronic pulmonary, cardiovascular [excluding isolated hypertension], renal, hepatic, neurologic, hematologic, or metabolic disorders [including diabetes mellitus])

*If administered, vaccination should occur in a medical setting and should be supervised by a health care provider who can recognize and manage severe allergic reactions. Providers can consider consultation with an allergist in such cases, to assist in identification of the component responsible for the allergic reaction

Quick Looks at Using IIV4, ccIIV4, RIV4, and LAIV4



<u>www.michigan.gov/flu</u> \rightarrow Resources \rightarrow Resources for Health Professionals

www.michigan.gov/VaccineQuickLooks

Flu Vaccination for Persons with Egg Allergy

- All persons aged 6 months and older with egg allergy should receive influenza vaccine unless a contraindication exists. Any influenza vaccine that is otherwise appropriate for the recipient's age and health status can be used (egg based or non-egg based)
- Egg allergy in and of itself necessitates no additional safety measures for influenza vaccination beyond those recommended for any recipient of any vaccine, regardless of severity of previous reaction to egg
- Severe and life-threatening reactions to vaccines can rarely occur with any vaccine and in any vaccine recipient, regardless of allergy history. Providers are reminded that all vaccines should be administered in settings in which personnel and equipment needed for rapid recognition and treatment of acute hypersensitivity reactions are available. All vaccination providers should be familiar with their office emergency plan and be CPR certified

<u>www.michigan.gov/flu</u> \rightarrow Resources \rightarrow Resources for Health Professionals

Flu Vaccine & Egg Allergy, Cont.

- 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

2022 24 Influenza Vaccination for		
2023-24 Initialized Vaccination for		
Persons who report Lgg Anergy		
For the 2023-24 influenza season, the Advisory Committee on Immunization Practices (ACIP) recommends the following:		
1. All persons aged 6 months and older with egg allergy should receive influenza vaccine		
 Any influenza vaccine (egg based or nonegg based) that is otherwise appropriate for the recipient's age and health status can be used (i.e., any IIV4, RIV4, or LAIV4) 		
Egg allergy in and of itself necessitates no additional safety measures for influenza vaccination beyond those recommended for any recipient of any vaccine, regardless of severity of previous reaction to egg		
3. Severe and life-threatening reactions to vaccines can rarely occur with any vaccine and in any vaccine recipient, regardless of allergy history. All vaccines should be administered in settings in which personnel and equipment needed for rapid recognition and treatment of acute hypersensitivity reactions are available		
 All vaccination providers should be familiar with their office emergency plan and be certified in cardiopulmonary resuscitation (CPR) 		
Remember: It is important to screen and review the contraindications and precautions for any vaccine. With flu vaccine it is important to know the type of flu vaccine being administered to assess for vaccine specific contraindications and precautions		
 For further information on contraindications and precautions review the Quick Looks for Influenza Vaccines (IIV4, LAIV4, ccIIV4, and RIV4) at: <u>www.Michigan.gov/vaccinequicklooks</u> 		
Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2023–24 Influenza Season Recommendations and Reports / August 25, 2023 / 72(2);1–25, located at www.cdc.gov/vaccines/hcp/acip-recs/index.html. For further information regarding flu vaccination, refer to www.Michigan.gov/flu, www.cdc.gov/vaccines, or www.cdc.gov/mmwr.		
Michigan Department of Health and Human Services — Division of Immunization Page 1 of 2 Rev. August 30, 2023		

<u>www.michigan.gov/flu</u> \rightarrow Resources \rightarrow Resources for Health Professionals

Flu Vaccine Administration

- Covers

 intramuscular
 (IM) and
 intranasal (NAS)
 administration
 techniques
- Do skills checkoffs for staff in your office

Administering Influenza Vaccines: Intramuscular and Intranasal

Intramuscular (IM) Injection

Inactivated Influenza Vaccines (aIIV4, HD-IIV4, IIV4, ccIIV4, RIV4)

- Use a needle long enough to reach deep into the muscle. For infants 6 months and older, use a 1" needle. For adolescents and adults, a 1-1 ½" needle should be used.¹
- Choose the appropriate site.¹ With your non-dominant hand, spread the skin taut between the thumb and forefinger, isolating the muscle.
- With your dominant hand, insert the needle at a 90° angle to the skin with a quick thrust.
- Push down on the plunger and inject the entire contents of the syringe. There is no need to aspirate.



- Remove the needle or activate the retraction, if using a retractable safety needle/syringe, then apply light pressure to the injection site for several seconds with a dry cotton ball or gauze pad.
- 6. Cover the injection site with a bandage.
- 7. Put the used needle and syringe in a sharps container.

Intranasal (NAS) Administration

Live Attenuated Influenza Vaccine (LAIV4)

- 1. FluMist® (LAIV4) is for intranasal administration only. Do not inject!
- 2. Remove the rubber tip protector. Do not remove the dose-divider clip at the other end of the sprayer.
- With the patient in an upright position, place the tip just inside the nostril to ensure LAIV4 is delivered into the nose. The patient should breathe normally.



- With a single motion, depress the plunger as rapidly as possible until the dose-divider clip prevents you from going further. Remove from nostril.
- 5. Pinch and remove the dose-divider clip from the plunger.



- Place the tip just inside the other nostril, and with a single motion, depress plunger as rapidly as possible to deliver the remaining vaccine (if the person sneezes after administration, the dose can be counted as valid).
- 7. Put the applicator in a sharps container.

¹Use professional judgment when determining needle size and injection site. Visit: <u>https://www.immunize.org/catg.d/p3085.pdf</u>. For more information regarding flu and flu vaccination, refer to <u>www.Michigan.gov/flu</u>, <u>www.cdc.gov/vaccines</u>, or <u>www.cdc.gov/mmwr</u>,

Michigan Department of Health and Human Services - Division of Immunization

Rev. August 29, 2023

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

Improper IM Injection Technique

- Inflammatory reaction resulting from incorrect administration of a vaccine intended for IM injection in deltoid, into/around the underlying bursa of the shoulder
- Causes shoulder pain and limited range of motion



Images courtesy of CDC

Skills Checklist for Vaccine Administration (immunize.org)

Proper IM Injection Technique:

- Administer in thickest, most central part of the muscle
- Use needle length based on patient's age and weight
- Insert the needle into the muscle at a 90° angle



Coadministration

- IIV4s and RIV4 can be administered simultaneously or sequentially with other inactivated vaccines or live vaccines
 - Injectable vaccines that are given simultaneously should be administered at separate anatomic sites
 - When administering more than one vaccine at the same clinical visit, providers should separate injection sites by at least 1 inch if possible and consider administering vaccines that are associated with an enhanced local reaction in separate limbs
- LAIV4 can be administered simultaneously with other live or inactivated vaccines
 - However, if two live vaccines are not given simultaneously, at least 4 weeks should pass after administration of one live vaccine (such as LAIV4) before another live vaccine is administered

<u>Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory</u> <u>Committee on Immunization Practices — United States, 2023–24 Influenza Season | MMWR (cdc.gov)</u>



CDC Vaccine Administration Job Aides

Vaccine Administration Resource Library | CDC

Flu Vaccine Information Statements (VIS)

problem?

4. Risks of a vaccine reaction

Soreness, redness, and swelling where the shot is given, fever, muscle aches, and headache can happen after influenza vaccination.

There may be a very small increased risk of Guillain-Barré Syndrome (GBS) after inactivated influenza vaccine (the flu shot).

Young children who get the flu shot along with pneumococcal vaccine (PCV13) and/or DTaP accine at the same time might be slightly more likely to have a seizure caused by fever. Tell your health care provider if a child who is getting flu vaccine has ever had a seizure

People sometimes faint after medical procedures including vaccination. Tell your provider if you feel dizzy or have vision changes or ringing in the ears.

As with any medicine, there is a very remote chance of a vaccine causing a severe allergic reaction, other serious injury, or death.

5. W

p An all Influenza (Flu) Vaccine (Inactivated or vaccir of a se Recombinant): What you need to know Hojas de información sobre vacunas esta face a dizzi to the For of 1. Why get vaccinated? care p Influenza vaccine can prevent influenza (flu) Adve

Adver Flu is a contagious disease that spreads around the health United States every year, usually between October you c and May. Anyone can get the flu, but it is more

dangerous for some people. Infants and young www. is onl children, people 65 years and older, pregnant people, and people with certain health conditions or a ned immune system are at greatest risk of flu complications.

> Pneumonia bronchitis, sinus infections, and ear infections are examples of flu-related complications. If you have a medical condition, such as heart disease, cancer, or diabetes, flu can make it worse.

Flu can cause fever and chills, sore throat, muscle aches, fatigue, cough, headache, and runny or stuffy nose. Some people may have vomiting and diarrhea, though this is more common in children than adults.

In an average year, thousands of people in the United States die from flu, and many more are hospitalized. Flu vaccine prevents millions of sses and flu-related visits to the doctor each year

2. Influenza vaccines

Vacci

Inac

CDC recommends everyone 6 months and older get vaccinated every flu season. Children 6 months through 8 years of age may need 2 doses during a single flu season. Everyone else needs only 1 dos each flu season.

It takes about 2 weeks for protection to develop after vaccinati

There are many flu viruses, and they are always changing. Each year a new flu vaccine is made to protect against the influenza viruses believed to be likely to cause disease in the upcoming flu season.

6. The National Vaccine Injury Compensation Program

The National Vaccine Injury Compensation Program (VICP) is a federal program that was created to compensate people who may have been injured by certain vaccines. Claims regarding alleged injury or death due to vaccination have a time limit for filing. which may be as short as two years. Visit the VICP website at www.hrsa.gov/vaccinecompensation or call 1-800-338-2382 to learn about the program and about filing a claim.

7. How can I learn more?

· Ask your health care provide . Call your local or state health department Visit the website of the Food and Drug Administration (FDA) for vaccine package inserts and additional information at www.fda.gov/vaccines-blood-biologics/vaccines

VACCINE INFORMATION STATEMENT

Even when the vaccine doesn't exactly match these viruses, it may still provide some protection Influenza vaccine does not cause flu Influenza vaccine may be given at the same time as other vaccines.

3. Talk with your health care provider

Tell your vaccination provider if the person getting · Has had an allergic reaction after a previous

dose of influenza vaccine, or has any severe, lifethreatening allergies Has ever had Guillain-Barré Syndrome (also called "GRS")

In some cases, your health care provider may decide to postpone influenza vaccination until a future visit. Influenza vaccine can be administered at any

time during pregnancy. People who are or will be pregnant during influenza season should receive inactivated influenza vaccine.

People with minor illnesses, such as a cold, may b vaccinated. People who are moderately or severely ill should usually wait until they recover before getting influenza vaccine

Your health care provider can give you more information.



like diabetes, kidney or liver disorders, neurologic or neuromuscular or metabolic disorders) Does not have a spleen, or has a non-functioning

Has a cochlear implant Has a cerebrospinal fluid leak (a leak of the fluid that surrounds the brain to the nose, throat, ear, or some other location in the head)

Has had Guillain-Barré Syndrome within 6 weeks after a previous dose of influenza vaccin

In some cases, your health care provider may decide to postpone influenza vaccination until a future visit.

For some patients, a different type of influenza vaccine (inactivated or recombinant influenza vaccine) might be more appropriate than live, attenuated influenza vaccine People with minor illnesses, such as a cold, may b vaccinated. Beople who are moderately or severely ill

should usually wait until they recover before getting influenza vaccine Your health care provider can give you more

information

4. Risks of a vaccine reaction · Runny nose or nasal congestion, wheezing, and

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Vacr

VACCINE INFORMATION STATEMENT

Influenza (Flu) Vaccine (Live, Intranasal): What You Need to Know

1. Why get vaccinated?

Influenza vaccine can prevent influenza (flu). Flu is a contagious disease that spreads around the United States every year, usually between October and May, Anyone can get the flu, but it is more dangerous for some people. Infants and young children, people 55 years of age and older, pregnant people, and people with certain health conditions or a weakened immune system are at greatest risk of flu complications.

Pneumonia, bronchitis, sinus infections, and ear Live nfections are examples of flu-related complica If you have a medical condition, such as heart disease cancer, or diabetes, flu can make it worse

> Flu can cause fever and chills, sore throat, muscle aches, fatigue, cough, headache, and runny or stuffy nose. Some people may have vomiting and diarrhea though this is more common in children than adults.

In an average year, thousands of people in the United States die from flu, and many more are hospitalized. Flu vaccine prevents millions of illnesses and flurelated visits to the doctor each year

2. Live, attenuated influenza vaccine

CDC recommends everyone 6 months and older get vaccinated every flu season. Children 6 months through 8 years of age may need 2 doses during a single flu season. Everyone else needs only 1 dose each flu season

- Live, attenuated influenza vaccine (called "LAIV") is a nasal spray vaccine that may be given to non-pregnant people 2 through 49 years of age.
- It takes about 2 weeks for protection to develop
- after vaccination



5. What if there is a serious

An allergic reaction could occur after the vaccinated

allergic reaction (biyes, swelling of the face and throat

son leaves the clinic. If you see signs of a sev

difficulty breathing, a fast heartbeat, dizziness, or

 Current IIV/RIV and LAIV VIS edition dates: 8/6/2021

• To access Michigan VISs (includes language on MCIR), go to www.michigan.gov/VIS



who require a protected environm · Has other underlying medical conditions that can put people at higher risk of serious flu complications (such as lung disease, heart disease, kidney disease



when the vaccine doesn't exactly match these viruses, it may still provide some protection Influenza vaccine does not cause flu Influenza vaccine may be given at the same time as other vaccines.

3. Talk with your health care provider Tell your vaccination provider if the person setting

the vaccine * Is younger than 2 years or older than 49 years of age

There are many flu viruses, and they are always

changing. Each year a new flu vaccine is made to

protect against the influenza viruses believed to be

likely to cause disease in the upcoming flu season. Even

· Is pregnant. Live, attenuated influenza vaccine is not mmended for pregnant people · Has had an allergic reaction after a previous dose of

Many vaccine information statements are available in Spanish and other languages. See www.immunize.org/vis

Hojas de información sobre vacunas estár disponibles en español y en muchos otros idiomas. Visite www.immunize.org/vis

influenza vaccine, or has any severe, life-threatening allergies Is a child or adolescent 2 through 17 years of age

who is receiving aspirin or aspirin- or salicylate containing products

Treatment of Influenza

TREATING CASES OF INFLUENZA

PRESCRIBING ANTIVIRALS

Treatment for Patients with Influenza

- Antiviral treatment is recommended as soon as possible for any patient with suspected or confirmed flu who:
 - Is hospitalized
 - Has severe, complicated, or progressive illness
 - Is at higher risk for flu complications
- Decision to start antiviral treatment should **not** wait for lab confirmation of flu
- Clinical benefit is greatest when treatment is administered early, within 48 hours of illness onset
 - Antivirals can be prescribed to persons with illness onset greater than 48 hours
- A history of flu vaccination does not rule out the possibility of influenza infection or the need to use antivirals to treat flu

Influenza Antiviral Medications: Summary for Clinicians | CDC

Who Should Be Treated with Flu Antivirals?

- Children younger than 2 years, adults 65 years and older
- Persons with chronic pulmonary, cardiovascular, renal, hepatic, hematological, and metabolic disorders, or neurologic and neurodevelopment conditions
- Persons with immunosuppression due to disease or medications
- Persons who are pregnant or postpartum (within 2 weeks of delivery)
- Younger than 19 years on long-term aspirin or salicylate therapy
- Non-Hispanic Black, Hispanic or Latino, and American Indian or Alaska Native
- People who have had a stroke
- BMI of 40 or greater
- Residents of nursing homes and other long term care facilities

Influenza Antiviral Medications: Summary for Clinicians | CDC

Antiviral Medications

ANTIVIRAL AGENT	USE	RECOMMENDED FOR	NOT RECOMMENDED FOR USE IN
Oseltamivir/Tamiflu [®] (oral)	Treatment	Any age	N/A
	Chemoprophylaxis	3 months & older	N/A
Zanamivir/Relenza [®] (inhaled)	Treatment	7 years & older	People with underlying respiratory disease (e.g., asthma, COPD)
	Chemoprophylaxis	5 years & older	People with underlying respiratory disease (e.g., asthma, COPD)
Peramivir/Rapivab [®] (IV)	Treatment	6 months & older	N/A
	Chemoprophylaxis	Not recommended	N/A
Baloxavir/Xofluza [®] (oral)	Treatment	5 years & older	N/A
	Chemoprophylaxis	Approved for post- exposure prophylaxis in persons 5 years and older	N/A

Influenza Antiviral Medications: Summary for Clinicians | CDC

Influenza Vaccination

COVERAGE LEVELS

STRATEGIES TO INCREASE COVERAGE

Michigan Influenza Vaccination Coverage, Select Ages, According to National Surveys and MCIR, 2013-2021



- Minimal improvement over 8 seasons
- "Everyone, every year"
 - Overall MCIR coverage remains < 60%
 - National Estimates ~55%
- Healthy People 2030 goals
 - 70% for healthy adults (18+ years) and children
 6 months through 17 years of age
- MCIR estimates below national estimates for MI coverage

*HR = High Risk; data available at: <u>www.cdc.gov/flu/fluvaxview/reportshtml/trends/index.html</u>

Focus Area #1: 2-Dose Coverage

- 2022-23 coverage levels in Michigan children, MCIR data
- Children 6 months through 8 years of age complete (1 or 2 doses)
 - Only 23.9% complete for the season (1 or 2 doses) (246,934/1,034,109)
- Of the 550,288 children recommended 2 doses
 7.4% (40,759) received both doses

Methods to Improve Flu Coverage in Young Children

- Routine vaccination hesitancy¹: 6%
- Hesitancy for flu vaccine: 26%
- Parent hesitation²:
 - Perceived low vaccine effectiveness
 - Safety concerns
 - Perception that flu vaccine causes the flu
- 1. Kempe, A. et al., Pediatrics, 2020 Retrieved from https://doi.org/10.1542/peds.2019-3852
- 2. De St. Maurice, A. et al., Pediatrics, 2020 Retrieved from https://doi.org/10.1542/peds.2020-1770
- 3. MDHHS Clearinghouse: www.healthymichigan.com

- Initiate the conversation with parents/patients about the importance of flu vaccine
 - Tell a personal story
 - Alana's Foundation:
 <u>www.alanasfoundation.org/</u>
 - Families Fighting Flu: <u>www.familiesfightingflu.org/</u>
- Ensure children who need 2 doses get their first dose early
- No missed opportunities
 - -Assess patients during every visit
 - Provide a strong recommendation and offer flu vaccine to every patient

Focus Area #2: Pregnant People

- Among persons pregnant anytime during August 2022-March 2023, 48.9% reported receiving a dose of flu vaccine
- Pregnancy Risk Assessment Monitoring System (PRAMS)
 - 53.7% coverage Michigan²
 - 35.4% among NH-Black individuals
 - 58.9% among NH-White individuals
- 1. <u>www.cdc.gov/flu/fluvaxview/dashboard/vaccination-</u> <u>coverage-pregnant.html</u>
- 2. PRAMS data provided by P.I- Peterson Haak, MDHHS

Flu Shot in 12 Months Before Delivery by Maternal Race | Ethnicity | Ancestry MI PRAMS 2016-2019



Methods to Improve Coverage in Pregnant People

- Assure you are giving a strong recommendation
- SHARE Method²:
 - Share: the tailored reasons why the recommended vaccine is right for the patient
 - Highlight: positive experiences with vaccines (personal or in your practice)
 - Address: patient questions and any concerns about the vaccine
 - Remind: patients that vaccines protect them and their loved ones
 - Explain: potential costs of getting the disease, including serious health effects, time lost, and financial costs
- 1. PRAMS data provided by P.I for the study, Peterson Haak, MDHHS
- 2. Make a Strong Influenza Vaccine Recommendation | CDC





Protect yourself and your baby. Get your flu and Tdap vaccine during each pregnancy.

Vaccines given during pregnancy can help protect your baby from serious diseases during the first few months after birth!

Flu vaccine can be given at any time during pregnancy. Tdap vaccine should be given in the early part of the 3rd trimester.

Talk to your health care provider today!

Protect Yourself and Your Baby. Get Your Flu Vaccine!

Flu is a serious disease for infants and pregnant women

Pregnant women who get the flu are at an increased risk of hospitalizations and having premature labor and delivery.

Flu vaccine offers the best protection against seasonal flu

Your flu vaccine helps protect your baby against the flu for up to 6 months after birth.

Infants of mothers vaccinated against influenza are up to 48 percent less likely to be hospitalized with flu-related complications compared to infants of mothers who were not vaccinated against flu*.

*Poehling et al. American Journal of Obstetrics and Gynecology, (2005)

Vaccines during pregnancy are safe and effective

Flu vaccine is the single best way to prevent the flu.

You can get a flu shot at any time during your pregnancy, and it is covered by insurance.

A recent study found that the flu shot can reduce the risk of influenza-associated hospitalizations during pregnancy by 40 percent*.

*Thompson et al. Clinical Infectious Diseases, (2019)

Surround your baby with vaccinated people

Infants cannot get the flu vaccine until they are 6 months old.

The best way to protect infants is to vaccinate those around them including parents, siblings, grandparents, child care workers, and health care personnel.





Only 50 percent of pregnant women get their flu shot each year - time to bump it up!

Talk to your healthcare provider today about all vaccines needed during pregnancy to protect you and your baby.

For more information visit: • michigan.gov/flu

- cdc.gov/flu
- immunizationforwomen.org
 ivaccinate.org

Revised June 2019

Order FREE at: www.healthymichigan.com

Focus Area #3: Adolescent and Young Adult Vaccination Coverage



Flu Dashboard (michigan.gov)

Flu Vaccination Coverage 2022-23 flu season:

- Adolescents aged 13-17 years: 11.9%
- Young adults aged 18-24 years: 15.5%

Addressing Vaccination Disparities

- Disparities result from individual attitudes and beliefs, social norms, and health care practices¹
 - Engagement is critical
 - Tailor messages to your audience
 - Leverage local capacity
 - Translated materials
 - Culturally appropriate education
- HCP Toolkit²
- Quality Improvement Strategies³
 - Schedule next vaccination visit before patient leaves the provider location
 - Leverage immunization information system functionality to improve immunization practice
 - Give a strong vaccine recommendation (include HPV vaccine if provider has adolescent patients)
 - Strengthen vaccination communications
- 1. www.ncbi.nlm.nih.gov/pubmed/28933619
- 2. www.cdc.gov/flu/professionals/vaccination/prepare-practice-tools.htm
- 3. www.cdc.gov/vaccines/programs/iqip/at-a-glance.html

I won't spread flu to my patients or my family.

Even healthy people can get the flu, and it can be serious.

Everyone 6 months and older should get a flu vaccine. This means you.

This season, protect yourself - and those around you by getting a flu vaccine.

For more information, stall Milp//www.odu.gow/fe

For office use



And Remember

Stay Up-To-Date on Immunization Recommendations

- Stay up-to-date by joining the MDHHS Listserv and receive email updates
- To sign up email Dara Barrera at <u>djbarrera@msms.org</u> and ask to be added to the MDHHS Immunization Listserv

Questions?



Thank You!