

2011-2012 A Quick Look at Seasonal Flu Vaccines: Live, Attenuated Influenza Vaccine (LAIV) and Trivalent Influenza Vaccine (TIV IM & TIV High Dose)



<p>Annual influenza vaccination is recommended for all persons 6 months of age and older, including all healthy persons!</p> <p>Indications for Use and Schedule</p> <p>Administer influenza vaccine annually</p> <ul style="list-style-type: none"> • TIV (IM) may be given to: <ul style="list-style-type: none"> -- Healthy and high risk persons aged 6 months & older • TIV High Dose (IM) may be given to: <ul style="list-style-type: none"> - Healthy and high risk persons aged 65 years & older • LAIV (intranasal) may be given to: <ul style="list-style-type: none"> - Healthy persons who are not pregnant & aged 2 through 49 years <p>----- Pediatric 2 Dose Rule -----</p> <p>Children aged 6 months through 8 years need 2 doses of flu vaccine if they:</p> <ul style="list-style-type: none"> • Are receiving seasonal flu vaccine for the first time • Have no documentation of any flu vaccination (on record or in MCIR) • Did not receive at least 1 dose of 2010-11 seasonal flu vaccine <p>The 2 doses may be TIV (IM), LAIV or a combination of each Separate 2 doses by at least 4 weeks & if possible, give the 2nd dose before December. Use an age-appropriate type (LAIV/TIV) & vaccine brand</p>	<p>TIV Administration</p> <ul style="list-style-type: none"> • Administer IM; use a 1 inch needle for children & a 1-1.5 inch needle for adults • Use professional judgment when selecting the needle length • Administer age-appropriate dosage: <ul style="list-style-type: none"> 6-35 months → 0.25 mL 3 years & older → 0.5 mL • TIV can be given with other vaccines
<p>Storage and Handling</p> <ul style="list-style-type: none"> • Store both types of TIV <u>and</u> LAIV in the refrigerator between 35°-46° F (2°-8° C) • Monitor flu vaccine expiration dates closely; use vaccine before it expires 	<p>LAIV Administration</p> <ul style="list-style-type: none"> • Administer intranasal 0.2 mL • Spray ½ dose into each nostril as indicated by the dose-divider clip on the sprayer • LAIV can be given with other vaccines • If LAIV is not given on the same day as other live vaccines (MMR, VAR, MMRV), must be separated by 28 days

Everyone 6 months of age and older should be vaccinated annually including these high-risk groups:

- Children aged 6 months through 4 years & adults aged 50 years and older
- Pregnant women (in any trimester)
- Residents of nursing homes and other long term care facilities
- Adults and children with a chronic medical condition including those with:
 - Pulmonary disease including asthma
 - Cardiovascular disease (except hypertension)
 - Immunosuppression including HIV
 - Metabolic disorders including diabetes
 - Renal dysfunction
 - Hematological disorders including sickle cell disease
 - Hepatic disorders
 - Neurologic/neuromuscular disorders that compromise respiratory function, handling of secretions or increase risk of aspiration (e.g. spinal cord injuries)
- Children aged 6 months through 18 years receiving long-term aspirin therapy
- Persons who are morbidly obese (BMI ≥ 40)
- American Indians/Alaskan Natives
- Persons who live with, care for, or are in close contact with infants less than age 6 months or persons in groups listed above
- Health care personnel (HCP)--in hospitals, ambulatory clinics & long-term care facilities--should be vaccinated annually

Contraindications

- **TIV & LAIV**
 - Serious allergic reaction (e.g. anaphylaxis) to a previous dose of flu vaccine or one of its components
- **LAIV only (these persons should receive TIV)**
 - Children aged 2-4 years with a history of wheezing
 - Chronic medical conditions
 - Children receiving long-term aspirin therapy
 - Pregnancy
 - Immunosuppression from any cause
 - Household/close contacts, including HCP, of severely immunosuppressed persons requiring a protective environment

Precautions

- **TIV & LAIV**
 - Moderate or severe acute illness
 - History of Guillain-Barré Syndrome (GBS) within 6 weeks of a previous influenza vaccination
 - Persons with an egg allergy
 - o Refer to: “2011-2012 Influenza Vaccine Screening Algorithm for Persons who Report Egg Allergy” at www.michigan.gov/flu for further guidance in determining flu vaccine safety for these persons

A Quick Look at Seasonal Flu Vaccines: Live, Attenuated Influenza Vaccine (LAIV) And Trivalent Influenza Vaccine (TIV IM & TIV High Dose) continued

Documenting Seasonal Flu Vaccine: LAIV, TIV (IM) and TIV High Dose

- Document flu doses in Michigan Care Improvement Registry (MCIR) on the “Add Imm” screen under “Vaccine” as:
 - LAIV as “Influenza LAIV (FluMist)”
 - TIV (IM) as “Influenza TIV (inject)”
 - TIV High Dose as “Influenza High Dose”
- Document the type of vaccine given on the vaccine administration record & record card as LAIV, TIV, or TIV High Dose

Further points to consider

- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season
- All seasonal flu vaccines contain the same 3 viral strains
- Give only TIV with antiviral medications. Do not give LAIV. See Influenza ACIP statement for further guidance
- HCP who are pregnant or have chronic medical conditions, other than severe immunosuppression, can administer LAIV
- ACIP has not expressed a preference for Fluzone High Dose formulation over any other inactivated vaccine for use in persons 65 years and older. If Fluzone High Dose is not stocked or available in your clinic, administer TIV (IM)
- If TIV (IM) & TIV High Dose are in same storage unit, take steps to avoid vaccine errors (i.e., staff awareness, clear labels)
- Household/close contacts (including HCP) of persons who are severely immunosuppressed & requiring a protective environment should be given the flu shot (TIV) or refrain from contact with these persons for 7 days after receiving LAIV
- LAIV may be given on the same day as a TB test (PPD). If not on the same day, wait at least 4 weeks after LAIV was given to administer the PPD test
- There is not a separate Vaccine Information Statement (VIS) for TIV High Dose. Use the generic TIV VIS.
- Use the current LAIV or TIV VIS that includes information about the MCIR; located at www.michigan.gov/immunize

Seasonal Influenza Vaccines 2011-12¹

Manufacturer	Product	Vaccine ²	Dose/Presentation	Thimerosal	Age Group	CPT Code ³
TIV						
sanofi pasteur	Fluzone [®]	TIV	Prefilled 0.25 mL syringe	No	6 through 35 months	90655
			Prefilled 0.5 mL syringe/vial	No	3 years and older	90656
			5.0 mL-multi dose vial	Yes	6 through 35 months	90657
	Fluzone High Dose [®]	TIV High Dose	Prefilled 0.5 mL syringe	No	3 years & older	90658
					65 years & older	90662
Novartis Vaccines	Fluvirin [™]	TIV	Prefilled 0.5 mL syringe	Trace	4 years & older	90656
			5.0 mL-multi dose vial	Yes	4 years & older	90658
GlaxoSmithKline	Fluarix [™]	TIV	Prefilled 0.5 mL syringe	No	3 years & older	90656
	FluLaval [™]	TIV	5.0 mL-multi dose vial	Yes	18 years & older	90658
CSL Biotherapies	Afluria [®]	TIV	Prefilled 0.5 mL syringe	No	9 years & older ⁴	90656
			5.0 mL-multi dose vial	Yes	9 years & older ⁴	90658
LAIV						
MedImmune	FluMist [™]	LAIV	Prefilled 0.2 mL nasal sprayer	No	Healthy, non-pregnant persons 2-49 years	90660

¹ Refer to “A Quick Look at Using Trivalent Influenza Vaccine Intradermal (TIV ID) for information on this presentation type of influenza vaccine at www.michigan.gov/immunize

² TIV (0.5mL) & LAIV vaccines contain 15 mcg of A/California/7/2009 (H1N1)-like, A/Perth/16/2009 (H3N2)-like, and B/Brisbane/60/2008-like hemagglutinin.

TIV High-Dose 0.5 mL dose contains 60 mcg of hemagglutinin per flu strain

³ Current Procedural Terminology (CPT) is a registered trademark of the American Medical Association (AMA)

⁴ Refer to ACIP Recommendations for the Use of CSL Influenza Vaccine, MMWR VOL 59, August 13, 2010 at www.cdc.gov/flu

Publicly purchased flu vaccine can be administered to eligible children 6 months through 18 years of age, through the VFC program in private providers’ offices. Eligible children include those who are uninsured, underinsured, Medicaid eligible, Native American or Alaskan Natives. Contact your local health department for more information

For more information: Contact your local health dept or visit: MI Dept of Community Health www.michigan.gov/flu or CDC www.cdc.gov/flu

Updates to this form will be posted at www.michigan.gov/flu or www.michigan.gov/immunize

Refer to: Prevention and Control of Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2011 MMWR Vol.60/No.33/ August 26, 2011 at www.cdc.gov/vaccines The 2010-2011 influenza vaccine recommendations should continue to be referenced for other information on influenza vaccines.