

Inactivated Influenza Vaccines: (trivalent and quadrivalent) IIV3, IIV4, IIV4 ID, IIV3 High Dose

Annual influenza vaccination is recommended for all persons 6 months of age and older, including all healthy persons.

Indications for Use and Schedule

- IIV3 (IM) or IIV4 (IM): For persons aged 6 months and older
Age range for use varies by brand
- IIV3 High Dose (IM): For persons aged 65 years and older
- IIV4 Intradermal (ID): For persons aged 18 through 64 years
- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season (until vaccine expires)

Key Points:

- There is no preference between LAIV4 over IIV3 or IIV4 for any age group
 - Vaccinate with an age appropriate IIV dose or LAIV4 dose
- Some children age 6 months through 8 years may require 2 doses of seasonal flu vaccine in 2015-16 to best protect them
- Persons aged 9 years and older only need 1 dose of flu vaccine, regardless of previous flu vaccination history

Administration

- Administer IIV3, IIV4 & IIV3 High Dose IM
 - Children: 1 inch needle
 - Adolescent/adults: 1-1.5 inch needle
- Administer IIV4 ID only over deltoid area of arm, using the manufacturer's pre-filled syringe
- Administer age-appropriate IIV3 or IIV4 dosage:
 - 6-35 months → 0.25mL (each dose)
 - 3 years & older → 0.5mL (each dose)
- IIV3/IIV4 can be given with all other vaccines

Storage and Handling

- Store in the refrigerator unit at 35°-46°F (2°-8°C)
- Do NOT freeze
- Keep in original box with lid on/protect from light
- Store different IIV formulations
Apart & label with age indication
- Do NOT use expired vaccine; stand-alone purpose built storage units are preferred



Information on 2-Dose Influenza Vaccine Pediatric Rule for Children aged 6 Months through 8 years

- Children aged 6 months through 8 years who receive at least 2 or more doses of seasonal flu vaccine (IIV3, IIV4, LAIV3, or LAIV4) prior to July 1, 2015, only need 1 dose of 2015-16 flu vaccine
- If a child has not received at least 2 seasonal flu doses (IIV3, IIV4, LAIV3, or LAIV4) before July 1, 2015, administer 2 doses of flu vaccine, separated by 4 weeks; doses of monovalent H1N1 vaccine do not count towards assessment; it is not considered a seasonal flu vaccine
- For further information refer to : Influenza vaccine dosing algorithm for children aged 6 months through 8 years — Advisory Committee on Immunization Practices, United States, 2015–16 influenza season at

<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6430a3.htm#fig1>

Contraindications (Persons who should not receive IIV3/IIV4)

- Serious allergic reaction (e.g. anaphylaxis) to a previous dose of flu vaccine or one of its components

Precautions (In certain circumstances may receive IIV3/IIV4)

- Moderate to severe acute illness
- History of Guillain-Barre´ Syndrome (GBS) within 6 weeks of a previous influenza vaccination

****NOTE:** Persons who report an egg allergy: give Recombinant Influenza Vaccine, trivalent (RIV3) to those 18 years and older if available **or**, determine if it is safe to give Inactivated Influenza Vaccine, trivalent (IIV3) or quadrivalent (IIV4).

-Refer to the CDC Vaccine Screening Algorithm for Persons who report an Egg Allergy at

<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6430a3.htm#fig2>

Further Points to consider

- Febrile seizures occur in 2-5% of all children. Following simultaneous administration of IIV & PCV13, an increased risk for febrile seizures (<1 per 1,000 children vaccinated) was observed in children aged 16 mos-4 yrs. ACIP considered benefit of receiving IIV & PCV13 versus risk; no changes in recommendation have been made and, if needed, IIV & PCV13 should be given simultaneously.
- Give only IIV formulations with antiviral medications. Do not give LAIV4. For further information: <http://www.cdc.gov/flu>
- Use current IIV VIS for any brand of IIV3/IIV4.
- Document the type of vaccine given on the vaccine administration record & record card as "IIV3", IIV4" "IIV3 ID" or IIV3 High Dose"
- ACIP has not expressed a preference between any IIV3 (including IIV3 ID, IIV3 High Dose) and IIV4 formulation
- There are 2 other IIV3 formulations not included on this form; refer to package inserts for information on Recombinant Inactivated Vaccine, trivalent (RIV3; Flublok, Protein Science) or cell-cultured Inactivated Influenza Vaccine, trivalent (cIIV3; Flucelvax, Novartis)