



<b>INFLUENZA VACCINES AVAILABLE IN UNITED STATES</b> Summary by Karen Lewis, MD, 8/7/2015						
Manufacturer	Formulation and Number of Strains <sup>§</sup>	Trade name	Ages	How to Give	Grown in chicken eggs	OK to use if egg allergy
Medimmune	LAIV4	FluMist® Quadrivalent	2-49 yo	Intranasal	Yes	No
GSK	IIV4	Fluarix® Quadrivalent	≥ 3 yo	IM	Yes	See note <sup>¶</sup>
GSK (distributor)	IIV4	FluLaval® Quadrivalent	≥ 3 yo	IM	Yes	See note <sup>¶</sup>
Sanofi Pasteur	IIV4	Fluzone® Quadrivalent	≥ 6 mo	IM	Yes	See note <sup>¶</sup>
Sanofi Pasteur	IIV4	Fluzone® Intradermal	18-64 yo	Intradermal	Yes	See note <sup>¶</sup>
BioCSL	IIV3	Afluria®	≥ 9 yo <sup>Δ</sup>	IM	Yes	See note <sup>¶</sup>
			18-64 yo	Jet injector or IM	Yes	See note <sup>¶</sup>
Novartis	IIV3	Fluvirin®	≥ 4 yo	IM	Yes	See note <sup>¶</sup>
Sanofi Pasteur	IIV3	Fluzone®	≥ 6 mo	IM	Yes	See note <sup>¶</sup>
Sanofi Pasteur	IIV3	Fluzone® High Dose	≥ 65 yo	IM	Yes	See note <sup>¶</sup>
Novartis	ccIIV3	Flucelvax®	≥ 18 yo	IM	No*	See note <sup>¶</sup>
Protein Sciences	RIV3	FluBlok®	≥ 18 yo	IM	No <sup>°</sup>	Yes

<sup>§</sup>Abbreviations: LAIV: Live attenuated influenza vaccine. IIV: Inactivated influenza vaccine. ccIIV: Cell culture inactivated influenza vaccine. RIV: Recombinant influenza vaccine. The number in the abbreviation shows how many influenza A and B strains (3=2A,1B; 4=2A,2B). IM: Intramuscular.

<sup>¶</sup> Permitted if patient experienced ONLY hives after eating eggs or egg-containing food; observe for reaction to vaccine at least 30 minutes after influenza vaccination. If previous anaphylactic reaction to eggs or egg-containing food, use RIV3 (if ≥ 18 yo) or use IIV given by a physician with experience in the recognition and management of severe allergic conditions; observe for reaction to vaccine for at least 30 minutes after vaccination. See MMWR article referenced below for more details.

<sup>Δ</sup>May be given at age ≥ 5 years old If there is no other age-appropriate, licensed inactivated seasonal influenza vaccine available for a child aged 5-through-8 years who has a medical condition that increases the child's risk for complications from influenza.

\*Influenza virus grown in dog kidney cells (cell culture) but may not be completely free of egg protein.

<sup>°</sup>Manufactured with recombinant DNA technology.

➤ For more details, see "Prevention and Control of Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP), United States, 2015-2016 Influenza Season.." *Morbidity and Mortality Weekly Report (MMWR)*, August 7, 2015; pp. 818-825. <http://www.cdc.gov/mmwr/pdf/wk/mm6430.pdf>