State of Alaska Epidemiology



Bulletin

Department of Health

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Influenza Vaccines Available During the 2024–25 Season

Vaccines Available

Influenza vaccine options available in the United States this season include Afluria®, Fluarix®, FluLaval®, Fluzone®, Flucelvax®, Fluzone High-Dose®, Fluad®, Flublok®, and FluMist®.¹ The Alaska Immunization Program will supply 6 trivalent influenza vaccines this season (Table). Recommendations and administration information is published in a separate *Bulletin*.²

2024-25 Influenza Vaccine Composition¹

For the 2024–25 influenza season, the U.S. Food and Drug Administration (FDA) recommended that the vaccine composition no longer include influenza B/Yamagata, as there has been no detection of this virus since March 2020.

Egg-based influenza vaccines contain hemagglutinin (HA) derived from:

- influenza A/Victoria/4897/2022 (H1N1) pdm09-like virus
- influenza A/Thailand/8/2022 (H3N2)-like virus
- influenza B/Austria/1359417/2021 (Victoria lineage)-like virus

Cell culture-based and recombinant (ccIIV4 and RIV4) influenza vaccines contain HA derived from:

- influenza A/Wisconsin/67/2022 (H1N1) pdm09-like virus
- influenza A/Massachusetts/18/2022 (H3N2)-like virus
- influenza B/Austria/1359417/2021 (Victoria lineage)-like virus

Storage

All influenza vaccine should be stored at 36°-46°F (2°-8°C) and should not be frozen. Multidose vials should not be used after the beyond-use date, after being accessed for the first dose. Additional storage and handling guidelines are available on the vaccine package inserts. 3

Inactivated Influenza Vaccines (IIV)

The IIV vaccines available this season are:

- Egg-based (IIV3): Afluria® MDV, Fluarix®, FluLaval®, and Fluzone® are licensed for persons aged ≥6 months.³
- Cell culture-based (ccIIV3): Flucelvax® is licensed for persons aged ≥6 months.³
- Egg-based high dose (HD-IIV3): Fluzone High-Dose® is licensed for persons aged ≥65 years.³
- Egg-based with MF59 adjuvant (aIIV3): Fluad® is licensed for persons aged ≥65 years.³

Recombinant Influenza Vaccine (RIV)

Flublok® (RIV3) contains recombinant HA produced in an insect cell line using genetic sequences from cell-derived influenza viruses. Flublok® (RIV3) may be used in persons aged ≥ 18 years.³

Live-Attenuated Influenza Vaccine (LAIV)

FluMist® (LAIV3) contains live, attenuated viruses that only replicate efficiently at temperatures present in the nasal mucosa. If the recipient sneezes immediately after administration, the dose should not be repeated. FluMist® (LAIV3) is available for persons aged 2 through 49 years who are not pregnant. 1

References

- CDC. Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the ACIP — United States, 2024– 25 Influenza Season. MMWR 2024;73(5);1-25. Available at: https://www.cdc.gov/mmwr/volumes/73/rr/rr7305a1.htm?s_cid= rr7305a1_w
- Alaska Epidemiology Bulletin. "Influenza Vaccine Recommendations and Administration for the 2024–25 Season". No. 8, September 10, 2024. Available at: https://epi.alaska.gov/bulletins/docs/b2024_08.pdf
- U.S. Food and Drug Administration, Vaccines, Blood, and Biologics: Manufacturer Package Inserts. Available at: https://www.fda.gov/vaccines-bloodbiologics/vaccines/vaccines-licensed-use-united-states

Table. Alaska Immunization Program-Supplied Influenza Vaccines

Trade Name	Manufacturer	Presentation	Age Indication	HA (IIVs/ RIV3) or virus count (VAIV3) per dose	Route	Mercury (from thimerosal)
Standard dose, egg based (IIV3)						
Afluria®	Seqirus	5.0 mL MDV	6–35 months ≥3 years	7.5 μg/0.25 mL dose 15 μg/0.5 mL dose	IM	24.5 μg/0.5 mL
Fluzone®	Sanofi Pasteur	5.0 mL MDV*, 0.5 mL PFS	≥6 months	15 μg/0.5 mL dose	IM	25 μg/0.5 mL
Standard dose, cell culture based (ccIIV3)						
Flucelvax®	Seqirus	0.5 mL PFS	≥6 months	15 μg/0.5 mL dose	IM	
High dose, egg based (HD-IIV3)						
Fluzone HD®	Sanofi Pasteur	0.5 mL PFS	≥65 years	60 μg/0.5 mL dose	IM	
Standard dose, egg-based vaccine with MF59 adjuvant (aIIV3)						
Fluad®	Seqirus	0.5 mL PFS	≥65 years	15 μg/0.5 mL dose	IM	
Egg based (LAIV3)						
FluMist®	AstraZeneca	0.2 mL PFIS	2–49 years	10 fluorescent focus units/0.2mL	NAS	

Abbreviations: IIV = inactivated influenza vaccine; RIV = recombinant influenza vaccine; LAIV = live attenuated influenza vaccine; cc = prefix indicating cell culture-based vaccine; a = prefix indicating adjuvanted inactivated vaccine; numeric suffix = specifies number of HA antigens in the vaccine; IM = intramuscular; MDV = multi-dose vial; NAS = nasal; PFS = pre-filled syringe; PFIS = pre-filled intranasal spray *Fluzone® is currently approved for ages 6 through 35 months at either 0.25 mL or 0.5 mL per dose.