### **National Center for Immunization & Respiratory Diseases**



### **ACIP Influenza Update**

Lisa Grohskopf, MD, MPH

National Adult and Influenza Immunization Summit May 11, 2023

# **Acknowledgements**

- Lynette Brammer
- Alicia Budd
- Arielle Colon
- Peter Daly
- Nicholas Dempster
- Daneisha Hawkins
- Amanda Howa
- Stacy Huang

- Krista Kniss
- Angiezel Merced-Morales
- Shunte Moon
- Benjamin Natkin
- Eugene Pun
- Katie Tastad

- Lenee Blanton
- Jill Ferdinands
- Lindsay Trujillo
- Carrie Reed

### **ACIP Influenza Statement, 2022-23**

- 2022-23 recommendations published August 2022.
  - Vaccine composition update.
  - Updates to the vaccine table.
    - → Age indication for Flucelvax Quadrivalent expanded from ≥2 years to ≥6 months.
  - Preferential recommendation for higher dose and adjuvanted influenza vaccines for adults ages ≥65 years.
    - ACIP recommends that adults aged ≥65 years 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 is available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be administered.
      https://www.cdc.gov/mmwr/volumes/71/rr/rr7101a1.htm



3

### ACIP Influenza Statement, 2023-24

- Will be discussed at the June 2023 ACIP meeting.
- Anticipated publication August 2023

## U.S. Influenza Vaccine Composition, 2023-24

- FDA Vaccines and Related Biological Products Advisory Committee (VRBPAC)
   Meeting, March 7, 2023.
- Includes updates to the H1N1pdm09 components for both egg based and non-egg based vaccines:
  - an A/Victoria/4897/2022 (H1N1)pdm09-like virus (egg based vaccines) OR
     an A/Wisconsin/67/2019 (H1N1)pdm09-like virus (cell based or recombinant vaccines)
  - an A/Darwin/9/2021 (H3N2)-like virus (egg based vaccines) OR
     an A/Darwin/6/2021 (H3N2)-like virus (cell based or recombinant vaccines)
  - a B/Austria/1359417/2021-like virus (B/Victoria lineage)
  - a B/Phuket/3073/2013-like virus (B/Yamagata lineage)

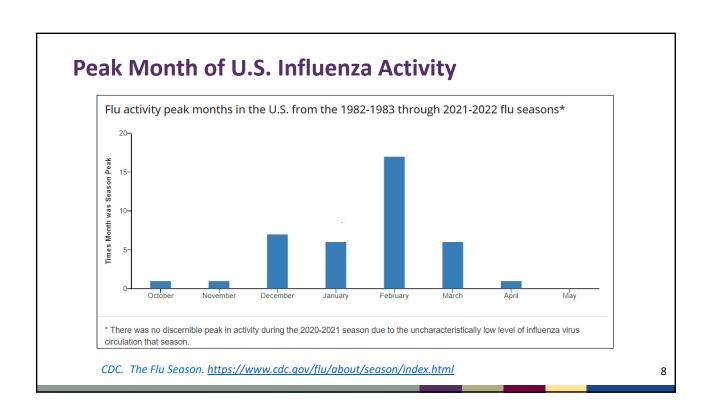
 $\frac{https://www.fda.gov/advisory-committees/advisory-committee-calendar/vaccines-and-related-biological-products-advisory-committee-march-7-2023-meeting-announcement$ 

5

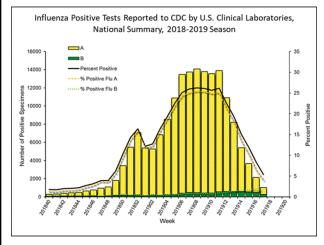
#### Influenza Vaccines by Age Indication, United States, 2022–23 Season Vaccine type 0 through 6 6 through 23 2 through 17 18 through 49 50 through 64 ≥65 months months years years years years Egg-based Afluria Quadrivalent standard-dose, Fluarix Quadrivalent FluLaval Quadrivalent unadjuvanted Inactivated (IIV4) Fluzone Quadrivalent Cell culture-based Flucelvax Quadrivalent unadjuvanted inactivated (ccIIV4) Adjuvanted Fluad Quadrivalent inactivated (aIIV4) High-dose Fluzone High-Dose inactivated (HD-IIV4) Quadrivalent RIV4 Recombinant Flublok Quadrivalent (RIV4) LAIV4 Live attenuated FluMist Quadrivalent (LAIV4) Not approved for age group Egg-based Not egg-based IIV4 = Inactivated influenza vaccine, quadrivalent RIV4 = recombinant influenza vaccine, quadrivalent LAIV4 = Live attenuated influenza vaccine, quadrivalent cc = cell culture **HD** = high-dose a = adjuvanted https://www.cdc.gov/mmwr/volumes/71/rr/rr7101a1.htm

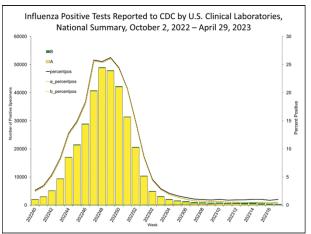
## **Timing of Vaccination—Considerations**

- Variable timing of start, peak, and end of influenza activity each season.
- Potential for waning of vaccine-induced immunity over the course of the season.









CDC. Fluview. https://www.cdc.gov/flu/weekly/index.htm

9

## Waning of Vaccine-Induced Immunity

- · Observed in many studies.
  - Variability in rate and degree to which waning occurs across seasons, as well as among different age groups.
  - Most consistently observed among older adults.
  - Noted among children in a few studies.
    - > However, fewer studies specifically included children.
  - In some studies, more pronounced for H3N2 viruses than for H1N1 viruses.
- Variability of results, combined with unpredictability of flu season timing, prevents determination of an ideal time to vaccinate.

## Timing of Vaccination—2022-23

- Vaccination during July and August is not recommended for most groups because of the possible waning of immunity over the course of the influenza season.
- 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 influenza season as long as influenza viruses are circulating and unexpired vaccine is available.

https://www.cdc.gov/mmwr/volumes/71/rr/rr7101a1.htm

### Timing of Vaccination—2022-23

Considerations for specific groups:

- Most adults (particularly ages ≥65 years) and pregnant persons in 1st or 2nd trimester: July and August should be avoided unless there is concern that vaccination later in the season might not be possible.
- Children who require 2 doses: Should receive first dose as soon as possible (including during July and August, if vaccine is available) to allow the second dose (which must be administered ≥4 weeks later) to be received, ideally, by the end of October.
- **Children who require only 1 dose:** Vaccination during July and August can be considered for children of any age who need only 1 dose of influenza vaccine for the season.
  - Not as much evidence for waning as adults (though there are fewer studies including children).
  - Children in the group might visit healthcare providers in late summer.
- Pregnant persons in 3rd trimester during July/August: Vaccination during July and August can be considered (might reduce risk for influenza illness in infants during the first months after birth).

https://www.cdc.gov/mmwr/volumes/71/rr/rr7101a1.htm

