# Quick Look at Recombinant Influenza Vaccine (Quadrivalent): RIV4, 2023-24

### Indications for Use and Schedule

- Use RIV4 (Flublok® Quadrivalent) for persons aged
   18 years and older
- Vaccination is recommended to be offered by the end of October and continued throughout the flu season until vaccine expires (see below for further timing considerations)

## **Key Points**

- With the exception of adults 65 years and older there is no preference for any flu vaccine product over another
  - Ensure vaccination occurs with an ageappropriate product and dose volume
- Adults 65 years and older should preferentially receive either HD-IIV4, RIV4, or alIV4
  - If none of these three vaccines are available, then any other age-appropriate influenza vaccine should be used

#### Vaccine Administration<sup>1</sup>

- Administer RIV4 intramuscular (IM) in the deltoid of the arm (preferred) or anterolateral thigh using a 1- to 1.5-inch needle
- Must administer vaccine IM, if given by another route; should repeat dose as soon as possible
- Can be given with other vaccines at the same visit do not miss an opportunity
  - Use separate sites, space at least 1-inch apart

# Storage and Handling

- Store in the refrigerator at 36°F to 46°F (2°C to 8°C)
- Pharmaceutical-grade (purpose-built) units are preferred for vaccine storage
- Do not freeze; keep in original box with lid on/protect from light
- Store different flu vaccine formulations apart and label with age indications
- Do **not** use expired vaccine

## INFLUENZA DOSE VOLUME IS BASED ON AGE AND FLU VACCINE PRODUCT:

RIV4 dosage for persons aged 18 years and older is 0.5 mL per dose

## CONTRAINDICATIONS (PERSONS WHO SHOULD NOT RECEIVE RIV4):

Severe allergic reaction (e.g., anaphylaxis) to a previous dose of any RIV or any component of RIV4

## PRECAUTIONS (IN CERTAIN CIRCUMSTANCES, PERSONS MAY RECEIVE RIV4):

- Moderate or severe acute illness with or without fever
- History of Guillain-Barré syndrome (GBS) within 6 weeks of previous flu vaccination
- History of a severe allergic reaction to a previous dose of any other flu vaccine (i.e., any egg-based IIV, ccIIV, or LAIV)

#### **FURTHER POINTS TO CONSIDER:**

- ACIP recommends that all persons aged 6 months and older with egg allergy should receive influenza vaccine. Any
  influenza vaccine (egg based or nonegg based) that is otherwise appropriate for the recipient's age and health status
  can be used
  - Egg allergy alone necessitates no additional safety measures for influenza vaccine beyond those recommended for any recipient of any vaccine, regardless of severity of previous reaction to egg
  - All vaccines should be administered in setting in which personnel and equipment needed for rapid recognition and treatment of acute hypersensitivity reactions are available
  - RIV4 contains recombinant hemagglutinin produced in an insect cell line using genetic sequences from cell-derived influenza viruses and is manufactured without the use of influenza viruses or eggs
  - Refer to "2023-24 Influenza Vaccine Screening for Persons Who Report Egg Allergy" at www.michigan.gov/flu/resources/resources-for-health-professionals

- Vaccination is recommended to be offered by the end of October and continued throughout the flu season until vaccine expires
  - For most adults (particularly adults aged 65 years and older) and for pregnant persons in the first or second trimester: Vaccination during July and August should be avoided unless there is concern that vaccination later in the season might not be possible
  - Pregnant persons in the 3<sup>rd</sup> trimester can be considered to receive flu vaccine soon after it arrives (July or August), as vaccination has shown to reduce risk of flu illness in infants in the 1<sup>st</sup> months of life
- ACIP recommends that adults 65 years and older preferentially receive any of the following higher dose or adjuvanted influenza vaccines: quadrivalent high-dose inactivated influenza vaccine (HD-IIV4, Fluzone® High-Dose), quadrivalent recombinant influenza vaccine (RIV4, Flublok®), or quadrivalent adjuvanted inactivated influenza vaccine (aIIV4, Fluad®). If none of these three vaccines is available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be administered
- RIV4 can be given with all other vaccines and with antiviral medications; for more information, refer to www.cdc.gov/flu
- Use current IIV/RIV Vaccine Information Statement (VIS) with details about the Michigan Care Improvement Registry (MCIR); Michigan VIS are posted at www.michigan.gov/VIS
- Document type of flu vaccine given as "RIV4" on the vaccine administration record, electronic medical record (EMR) and the immunization record card.
- For more information on Cell Culture-based IIV (cclIV4, Flucelvax® Quadrivalent), Inactivated Influenza
   Vaccines (IIV4, High-Dose IIV4, and Adjuvanted IIV), or Live Attenuated Influenza Vaccine (LAIV4, FluMist®
   Quadrivalent), refer to additional Quick Looks at <a href="https://www.michigan.gov/vaccinequicklooks">www.michigan.gov/vaccinequicklooks</a>

For more guidance on influenza vaccine recommendations, refer to <u>"Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2023–24 Influenza Season", Recommendations and Reports / August 25, 2023 / 72(2);1–25, located at www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/flu.html</u>

For more information regarding flu vaccination, contact your local health department, visit Michigan Department of Health and Human Services at <a href="https://www.Michigan.gov/flu">www.Michigan.gov/flu</a>, or visit <a href="https://www.cdc.gov/flu">www.cdc.gov/flu</a> or <a h

<sup>&</sup>lt;sup>1</sup> Assessment of needle size and injection site must be made for each person based on size of the muscle, thickness of adipose tissue at the injection site, volume of the material to be administered, and injection technique. For more information, see Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization at <a href="https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html">www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html</a>.