## FLUZONE® High-Dose

### Manufacturer
Sanofi Pasteur

### Biological Classification
Quadrivalent, split virus inactivated influenza vaccine

### Indications for Provincially Funded Vaccine
For persons 65 years of age and older

**Notes:**
- **ONLY** persons who live, work, go to school or are visiting in Alberta are eligible to receive provincially funded influenza vaccine.

### Influenza Strains for the 2023-24 Season
- A/Victoria/4897/2022 (H1N1)pdm09-like virus
- A/Darwin/9/2021 (H3N2) like virus
- B/Austria/1359417/2021 (B/Victoria lineage)- like virus
- B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

### Dose
0.7 mL

### Route
I.M.

### Schedule
65 years of age and older:
- 1 dose

**Note:**
- CAR T-cell therapy recipients without a prior history of HSCT who received influenza vaccine pre-CAR T-cell therapy are eligible to restart their influenza vaccine series, beginning at least 3 months post-CAR T-cell therapy. Consultation with their physician is not necessary as long as a clearance letter has been received to proceed with inactivated vaccines.
- For HSCT recipients who had their post-HSCT vaccine series interrupted by CAR T-cell therapy, see the following HSCT guidance:
  - Principles of Immunization in Hematopoietic Stem Cell Transplant Recipients and Solid Organ Transplant Recipients
  - Immunization for Adult HSCT Recipients

### Contraindications/Precautions
**Contraindications:**
- Persons under 65 years of age.
- Known hypersensitivity to any component of the vaccine excluding eggs.
- Anaphylactic or other allergic reactions to a previous dose of influenza vaccine.
- Known history of Guillain Barré Syndrome (GBS) within 6 weeks of a previous dose of influenza vaccine.
- Individuals presenting with a serious acute febrile illness
  - Recommendations should be provided for these individuals to be immunized when their symptoms have resolved.
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- Individuals with non-serious febrile illness may be immunized.

**Precautions:**
- Egg allergy is not considered a contraindication for inactivated influenza vaccine.
- Egg-allergic individuals may be safely immunized using inactivated influenza vaccine without a prior influenza vaccine skin test and with the full dose of vaccine, irrespective of a past severe reaction to egg. They can be immunized in any setting and should be kept under observation for 30 minutes following administration of inactivated influenza vaccine.
- Known history of severe oculorespiratory syndrome (ORS) symptoms that included lower respiratory symptoms within 24 hours of receiving influenza vaccine pending consultation with the Medical Officer of Health to review the risks and benefits of further influenza immunization.

### Possible Reactions

**Common:**
- Pain, redness, swelling, induration, bruising at the injection site
- Shivering
- Malaise
- Headache, myalgia

**Uncommon:**
- Pruritus at the injection site
- Fever
- Vertigo
- Nausea, diarrhea
- Cough

**Rare:**
- Anaphylaxis, allergic reaction
- Urticaria
- Arthralgia
- Fatigue
- Dizziness
- Vomiting
- Flushing
- Pruritus
- Pain in extremity
- Guillain-Barré Syndrome (GBS)

ORS is defined by the following symptoms occurring within 24 hours of immunization:
- bilateral red eyes **and**
- one or more of the following respiratory symptoms (cough, wheeze, chest tightness, difficulty breathing, difficulty swallowing, hoarseness, sore throat) **with or without** facial swelling.

**Note:** People who have an occurrence or recurrence of ORS upon immunization do not necessarily experience further episodes with future immunizations.
- As with any immunization, unexpected or unusual side effects can occur. Refer to product monograph for more detailed information.

**Pregnancy**
- Not applicable

**Lactation**
- Not applicable

**Composition**
- Each 0.7 mL dose contains:
  - 60 mcg influenza virus hemagglutinin from each of the four virus strains
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- Formaldehyde
- Sodium phosphate-buffered, isotonic sodium chloride solution
- Triton® X-100
- Egg protein; propagated in embryonated chicken eggs

#### Blood/Blood Products
Contains no human blood/blood products.

#### Bovine/Porcine Products
Contains no bovine or porcine products.

#### Latex
Does not contain latex.

#### Interchangeability
Any other inactivated influenza vaccine may be interchanged for persons 65 years of age and older.

#### Administration with Other Products
May be given at the same time as other inactivated and live vaccines using a separate needle and syringe for each vaccine. The same limb may be used if necessary, but different sites on the limb must be chosen.

For co-administration with COVID-19 vaccines, refer to the “Administration with Other Products” section in the relevant COVID-19 vaccine biological page.

#### Appearance
- Clear to slightly opalescent in colour.
- Shake product well before administration.

#### Storage
- Store at +2°C to +8°C
- Do not freeze.
- Store in original packaging when possible to protect from light.

#### Vaccine Code
FLU-HD

#### Antigen Code
FLU

#### Licensed for
Individuals 65 years of age and older.

#### Program Notes
- 1992 (approx.): Influenza vaccine split virus Influenza split virus vaccine first used in Canada in approximately 1992 (Fluviral® & Vaxigrip®)
- 2009 October: Influenza vaccine for H1N1 Pandemic universal program for everyone six months of age and older.
- 2009 October: Influenza seasonal vaccine universal program to include all Albertans six months of age and older.
- 2015 August 12: Influenza Vaccines 2015-2016 season: Fluad® (all Albertans aged 65 years and older.), Flumist® Quadrivalent, Fluviral, Influvac® (This is the vaccine of choice for adults 18 to 64 years of age).
- 2016 August 29: Influenza vaccines 2016-2017 season: Fluzone®, Fluad®, Flumist®
- 2021: Influenza Vaccine 2021-2022 season: Fluzone®, FluLaval® Tetra, Alfuria® Tetra, Fluzone® HD (65 years of age and older).
- 2023 Influenza Vaccines 2023-2024 season: Fluzone®, FluLaval® Tetra, Fluzone® HD (65 years of age and older)
Related Resources

- Alberta Health Services Website (2022). Influenza Immunization [Influenza Immunization Health Professionals | Alberta Health Services]

References

1. Alberta Immunization Policy, Biological Products, Government of Alberta (2023, August). *Influenza Vaccine High-Dose Quadrivalent Inactivated*