Influenza Vaccine Quadrivalent Inactivated

BIOLOGICAL PAGE



Section 7	Biological Product Information	Standard # 07.265	
Created and approved by	Provincial Immunization Program Standards and Quality		
Approval date	September 4, 2015	Revised	September 25, 2024

	FLUCELVAX QUAD	FluLaval Tetra	Fluzone Quadrivalent		
Manufacturer	Seqirus Canada Inc.	GlaxoSmithKline Inc.	Sanofi Pasteur Inc.		
Classification	Quadrivalent, inactivated subunit	Quadrivalent, inactivated split virion vaccine			
Indications for Provincially Funded Vaccine Influenza Strains for	 years of age and older and adults 18 years Hematopoietic stem cell transplant (H CAR T-cell therapy recipients; or Solid organ or islet transplant (SOT) of Note: 	HSCT) recipients; candidates or recipients chool or are visiting in Alberta are eligible to receive			
2024-2025 Season	A/Wisconsin/67/2022 (H1N1)pdm09- like virus A/Massachusetts/18/2022(H3N2)-like virus B/Austria/1359417/2021(B/Victoria lineage)-like virus B/Phuket/3073/2013(B/Yamagata lineage)-like virus	A/Thailand/8/2022(H3N2 B/Austria/1359417/2021(I	897/2022 (H1N1)pdm09-like virus 8/2022(H3N2)-like virus 859417/2021(B/Victoria lineage)-like virus 073/2013(B/Yamagata lineage)-like virus		
Dose	0.5 mL	-			
Route	I.M.				
Schedule	 6 months up to and including 8 years of previous season: 2 doses with a minimum interval of 4 6 months up to and including 8 years of season: 1 dose 9 years of age and older: 1 dose 	weeks between doses			

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	 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 Immunization for Child HSCT Recipients 		
Contraindications/ Precautions	 Contraindications: Infants less than 6 months of age. Known hypersensitivity to any com Anaphylactic or other allergic react Known history of Guillain Barré Syninfluenza vaccine Individuals presenting with a seriou Recommendations should be presymptoms have resolved. Individuals with non-serious fet Precautions: Egg allergy is not considered a con Egg-allergic individuals may be saft a prior influenza vaccine skin test a severe reaction to egg. They can be observation for 30 minutes following Known history of oculorespiratory symptoms within 24 hours of receivance. 	tions to a previous dose of in- ndrome (GBS) within 6 weeks us acute febrile illness rovided for these individuals prile illness may be immunized traindication for inactivated fely immunized using inactivated and with the full dose of vacc e immunized in any setting ar ng the administration of inact syndrome (ORS) symptoms the ving influenza vaccine, pendi	fluenza vaccine. s of a previous dose of to be immunized when their ed. influenza vaccine. ated influenza vaccine without ine, irrespective of a past nd should be kept under tivated influenza vaccine. hat included lower respiratory ng consultation with the
Possible Reactions	Medical Officer of Health to review Common: Pain, tenderness, redness, and swe Fever, shivering Fatigue, drowsiness, malaise Irritability, abnormal crying Headache, arthralgia, myalgia Loss of appetite Gastrointestinal symptoms (nausea Uncommon: Pruritus, bruising, haemorrhage, we Lymphadenopathy Dizziness Rash Nasopharyngitis Otitis media Cough, runny nose, sneezing, sore	elling at the injection site a, vomiting, diarrhea, abdomi armth and induration at injec	nal pain)

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	 Rare: Anaphylaxis, allergic reaction Guillain-Barré Syndrome (GBS) ORS is defined by the following symtory bilateral red eyes and one or more of the following responsibility breathing, difficulty swaswelling. Note: People who have an occurrence necessarily experience further episory As with any immunization, unexpect monograph for more detailed inform 	piratory symptoms (cough, v vallowing, hoarseness, sore t ce or recurrence of ORS upo odes with future immunization ed or unusual side effects c	vheeze, chest tightness, hroat) with or without facial on immunization do not ons.
Pregnancy	No contraindication. Inactivated influenza immunization is recommended for all pregnant women, at any stage of pregnancy, due to the risk of influenza morbidity. The safety of inactivated influenza vaccine during pregnancy has been reviewed and has not shown evidence of harm to the mother or fetus.		
Lactation	No contraindication		
Composition	 Each 0.5 mL dose contains: 15 mcg influenza virus haemagglutinin from each of the four virus strains Disodium phosphate dihydrate Magnesium chloride hexahydrate Potassium dihydrogen phosphate Sodium chloride Water for injection Trace residual amounts of: beta-propiolactone cetyltrimethylammonium bromide polysorbate 80 *Thimerosal is present in the multi- dose product only (25 mcg/0.5 mL dose) Propagated in Madin Darby Canine Kidney (MDCK) cells 	 Each 0.5 mL dose contains: 15 mcg influenza virus haemagglutinin surface antigen from each of the four virus strains phosphate buffered saline composed of: sodium chloride potassium chloride disodium hydrogen phosphate heptahydrate potassium dihydrogen phosphate vater for injection α-tocopheryl hydrogen succinate polysorbate 80 trace residual amounts of: egg proteins formaldehyde sodium deoxycholate 	 Each 0.5 mL dose contains: 15 mcg influenza virus haemagglutinin from each of the four virus strains Formaldehyde Sodium phosphate- buffered, isotonic sodium chloride solution Triton X-100 *Thimerosal is present in the multidose product only (25 mcg/0.5 mL dose) Propagated in embryonated chicken eggs

	FLUCELVAX QUAD	FluLaval Tetra	Fluzone Quadrivalent
		 ethanol sucrose *Thimerosal is present in the multi-dose product only (50 mcg/0.5 mL dose) Propagated in the allantoic cavity of embryonated hens' eggs. 	
Blood/Blood Products	Does not contain human blood/blood pro	ducts.	
Bovine/Porcine Products	Does not contain bovine or porcine produ	icts.	
Latex	Does not contain latex.		
Interchangeability	For children requiring a second dose of influenza vaccine, either quadrivalent inactivated influenza vaccine or quadrivalent live attenuated influenza vaccine can be used as long as there is a minimum interval of 4 weeks between doses. If a child receives a dose of trivalent inactivated influenza vaccine as their first dose, quadrivalent inactivated influenza vaccine can be administered as the second dose.		
Administration with Other Products	 May be given at the same time as most 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. Space RSV vaccine by 2 weeks before or after seasonal influenza and/or seasonal COVID-19 vaccines. Limited efficacy and safety studies have been conducted on giving RSV vaccine at the same time as other vaccines. Some studies suggest that giving RSV vaccine and other vaccines at the same time may not produce as strong of an immune response. The clinical significance of this is unknown and more evidence is required to understand if this is a risk. Prioritize giving seasonal influenza and seasonal COVID-19 vaccines first during respiratory season. Consider the dose valid if RSV vaccine is inadvertently administered without the recommended 2-or 6-week spacing interval. 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 suspension. Shake product well before administration. 	 Opalescent translucent off-white suspension Shake product well before administration. 	 Clear to slightly opalescent suspension. 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. Discard 28 days after first puncture into the vial for the multi-dose product. Do not use beyond the labeled expiry date. 		
Vaccine Code	FLU		

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Antigen Code	FLU	
Licensed for	Individuals 6 months of age and older.	
Notes	 1992 (approx.): Influenza vaccine split virus Influenza split virus vaccine f approximately 1992. (Fluviral & Vaxigrip) 2009 October: Influenza vaccine for H1N1 Pandemic universal program for months of age and older. 2009-October: Influenza seasonal vaccine universal program to include a months of age and older. 2015 August 12: Influenza Vaccines 2015-2016 season: Fluad (all Albertar older), Flumist Quadrivalent, Fluviral, Influvac (This is the vaccine of choic years of age). 2016 August 29: Influenza vaccines 2016-2017 season: Fluzone, Fluad, Flu 2017 July: Influenza Vaccines 2017-2018 season: Fluzone, Fluad, Flu 2018 August: Influenza Vaccines 2018-2019 season: Fluzone, FluLaval Tetra. 2020: Influenza Vaccines 2020-2021 season: Fluzone, FluLaval Tetra. 2020: Influenza Vaccines 2020-2021 season: Fluzone, FluLaval Tetra, Alfu Fluzone HD (65 years of age and older who reside in long term care beds) 2021: Influenza Vaccine 2021-2022 season: Fluzone, FluLaval Tetra, Alfur (65 years of age and older). 2022: Influenza Vaccine 2022-2023 season: Fluzone, FluLaval Tetra, Alfur (65 years of age and older). 2023 Influenza Vaccines 2023-2024 season: Fluzone, FluLaval Tetra, Alfur (65 years of age and older). 2023 Influenza Vaccines 2023-2024 season: Fluzone, FluLaval Tetra, Fluz age and older). 2024 Influenza Vaccines 2024-2025 season: Fluzone, FluLaval Tetra, Fluz age and older). 2024 Influenza Vaccines 2024-2025 season: Fluzone, FluLaval Tetra, Fluz age and older). 	or everyone six all Albertans six all Albertans six as aged 65 years and ce for adults 18 to 64 umist tra. uria Tetra, Trivalent). ia Tetra, Fluzone HD ria Tetra, Fluzone HD zone HD (65 years of
Related Resources	 Alberta Health Services Website (2024). Influenza Immunization Influenza Alberta Health Services Website (2024). Influenza Immunization: Informa Professionals Influenza Immunization Health Professionals Alberta Health 	ition for Health

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