

Section 7	Biological Product Information	Standard # 07.150
Created and approved by	Provincial Immunization Program Standards and Quality	
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	Arepanrix H5N1 (A/American wigeon clade 2.3.4.4b)
Manufacturer	GlaxoSmithKline Inc.
Classification	Non-live, inactivated
Indications for Provincially Funded Vaccine	<p>The following occupational groups are eligible for Arepanrix:</p> <ul style="list-style-type: none"> Individuals who handle avian influenza A(H5N1) virus in laboratory settings: <ul style="list-style-type: none"> Laboratory workers who manipulate, handle, or culture live avian influenza A(H5N1) virus in research laboratory settings including workers from: <ul style="list-style-type: none"> University of Alberta Research Team Personnel working in animal diagnostic laboratories including workers from: <ul style="list-style-type: none"> University of Calgary Diagnostic Services Unit Alberta Agriculture and Forestry (AGI) Laboratory Canadian Food Inspection Agency (CFIA) Individuals with ongoing exposure to birds, poultry, dairy cattle, their carcasses or their environments: <ul style="list-style-type: none"> Workers who contribute on multiple farms to the management of infected animal cases, for example those exposed to bird culling including but not limited to workers from: <ul style="list-style-type: none"> Canadian Food Inspection Agency (CFIA) Wildlife officers, wildlife researchers and wildlife rehabilitators with ongoing exposure to sick and dead birds. Veterinarians, veterinary technicians and other individuals routinely involved in the response to suspected/confirmed avian influenza, including performing necropsies. This includes but is not limited to workers from: <ul style="list-style-type: none"> University of Calgary Diagnostic Services Unit Alberta Agriculture and Forestry (AGI) Laboratory <p>Note: Clinical laboratory workers, such as those at Alberta Precision Laboratories and Dynalife, are not eligible.</p>
Serology	N/A
Schedule	<p>Individuals 6 months of age and older</p> <ul style="list-style-type: none"> Dose 1: day 0 Dose 2: at least 3 weeks (21 days) after dose 1
Preferred Use	N/A
Dose	<p>Children 6 months to under 18 years of age</p> <ul style="list-style-type: none"> 0.25mL

	Arepanrix H5N1 (A/American wigeon clade 2.3.4.4b)
	<p>Adults 18 years of age and older</p> <ul style="list-style-type: none"> • 0.5 mL
Route	IM
Contraindications/ Precautions	<p>Contraindications:</p> <ul style="list-style-type: none"> • Known severe hypersensitivity to any component of the vaccine with the exception of egg allergies. <p>Precautions</p> <ul style="list-style-type: none"> • Immunization should be postponed in patients with severe febrile illness or acute infection, unless the benefits outweigh the potential risks of administering the vaccine to those patients. • Multiple research studies have demonstrated that egg-allergic persons can receive influenza vaccines. All egg-allergic individuals may be immunized with influenza vaccines grown in eggs or chick cell cultures. • If Guillain-Barré Syndrome has occurred in an individual within 6 weeks of receipt of prior influenza vaccine, the decision to give Arepanrix should be based on careful consideration of the potential benefits and risks. Consultation with MOH/designated recommended.
Possible Reactions	<p>Common:</p> <ul style="list-style-type: none"> • Pain, redness, swelling at the injection site • Fever, chills, headache • Fatigue • Joint pain, myalgia • Sweating • Nausea, diarrhea • Irritability in children 6 months to less than 6 years of age • Fatigue in children 6 months to less than 6 years of age • Loss of appetite in children less than 6 years of age <p>Uncommon:</p> <ul style="list-style-type: none"> • Lymphadenopathy • Insomnia • Dizziness, vertigo, paresthesia, malaise • Abdominal pain, vomiting, dyspepsia, stomach discomfort • Pruritus, rash • Musculoskeletal discomfort, chest pain <p>Rare:</p> <ul style="list-style-type: none"> • Anaphylaxis • As with any immunization, unexpected or unusual side effects can occur. Refer to the product monograph for more detailed information.
Pregnancy	<ul style="list-style-type: none"> • Consult the MOH/ designate. There is no available data on the use of Arepanrix H5N1 during pregnancy. • There is post market surveillance data on the use of Arepanrix H1N1 and with the AS03 adjuvant during pregnancy. • A GSK-supported safety review of Arepanrix H1N1 and Pandemrix H1N1 vaccines, based on non-clinical, clinical, and post-licensure data, noted that they were generally well tolerated with an acceptable safety profile in special populations including pregnancy.

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	<ul style="list-style-type: none"> MOH/Designate will make an individual recommendation based on risk of disease versus benefit of vaccine. <p>Note:</p> <p>Data from immunizations with seasonal influenza vaccines in pregnant individuals do not indicate adverse fetal and maternal outcomes were attributable to the vaccine.</p>
Lactation	<ul style="list-style-type: none"> May use for people who are lactating and feeding milk to infants or children. While there are no available data on the use of Arepanrix H5N1 in breastfeeding individuals, use of other influenza vaccines has a strong safety profile in this population.
Composition	<p>Each 0.5 mL dose of vaccine contains:</p> <ul style="list-style-type: none"> Active Ingredients: <ul style="list-style-type: none"> 3.75 micrograms of A/American wigeon/South Carolina/22-000345-001/2021 (H5N1) Adjuvant contains AS03 composed of squalene, DL-α-tocopherol and polysorbate 80 Non-medicinal Ingredients: <ul style="list-style-type: none"> Disodium hydrogen phosphate Potassium chloride Potassium dihydrogen phosphate Sodium chloride Thimerosal Water for injection Trace amounts of egg proteins including ovalbumin (≤ 0.083 μg per dose), formaldehyde, sodium deoxycholate and sucrose.
Blood/Blood Products	Does not contain any human blood/blood products.
Bovine/Porcine Products	<p>Bovine Products:</p> <ul style="list-style-type: none"> Bovine derived materials are used as raw material during the routine manufacturing process. <p>Porcine Products:</p> <ul style="list-style-type: none"> Does not contain porcine products.
Latex	Does not contain latex in the vaccine or packaging.
Interchangeability	N/A
Administration with Other Products	<ul style="list-style-type: none"> Wait for a period of at least 6 weeks between administration of Arepanrix and another live or inactivated vaccine unless Arepanrix or another vaccine is needed urgently. <ul style="list-style-type: none"> Data on co-administration of Arepanrix and other vaccines is not available, This recommendation is precautionary to prevent erroneous attribution of an adverse event following immunization (AEFI) to one particular vaccine or the other.
Preparation	<ul style="list-style-type: none"> Before mixing the two components, the emulsion (adjuvant) and suspension (antigen) should reach room temperature, allow a minimum of 15 minutes. <ul style="list-style-type: none"> White sediment may be observed in the suspension vial. Invert each vial to mix and then inspect visually for foreign particulate and /or abnormal appearance. <ul style="list-style-type: none"> Do not administer if anything is seen. Withdraw the entire contents of the adjuvant using a 5 mL syringe and a 23- or 21-gauge needle. Keep the adjuvant vial in an upside-down position to assist the withdrawal of the fill content. The reconstituted vaccine is a whitish to yellowish homogenous milky liquid emulsion. <ul style="list-style-type: none"> Do not administer if it appears any other way. Use reconstituted vaccine within 24 hours.

	Arepanrix H5N1 (A/American wigeon clade 2.3.4.4b)
	<ul style="list-style-type: none"> Store reconstituted vaccine in the fridge between +2°C to +8°C, or at room temperature (up to +30°C). <ul style="list-style-type: none"> Allow to reach room temperature (a minimum of 15 minutes) before withdrawing and administering, if stored in the fridge
Appearance	H5N1 Antigen: <ul style="list-style-type: none"> Sterile, translucent to whitish opalescent suspension that may sediment slightly AS03 Adjuvant: <ul style="list-style-type: none"> Sterile, homogenized, whitish to yellow homogenous milky emulsion
Storage	<ul style="list-style-type: none"> Store at +2°C to +8°C Do not freeze.
Vaccine Code	H5N1-AD
Antigen Code	FLU
Licensed for	Active immunization of adults and children from 6 months of age against influenza caused by the H5N1 subtype virus in non-pandemic context. Note: Arepanrix H5N1 (A/American wigeon clade 2.3.4.4b) was approved as a strain change to Arepanrix H5N1 (A/Indonesia) by Health Canada under the provisions of the New Drug Submission regulations and standard practice for strain changes to seasonal influenza vaccines.
Program Notes	13 February 2013: Health Canada authorized use of Arepanrix H5N1 (A/Indonesia clade 2.1.3.2) in Canada as a pandemic vaccine. 18 February 2025: Marketing authorization of Arepanrix H5N1 (A/American wigeon clade 2.3.4.4b) update as a strain change to Arepanrix H5N1 (A/Indonesia) for use in a non-pandemic context. 5 August 2025: Implemented in Alberta.
Related Resources	Avian Influenza Information Sheet.
References Alberta Health. (2025, July) Avian Influenza Vaccine. In Alberta Immunization Policy: Biological Products. Government of Alberta. Alberta Health. (2023, December). Influenza, Avian (includes H5N1 and H7N9). In Alberta Health: Disease Management Guidelines. Government of Alberta. National Advisory Committee on Immunization. (2024, February 24) Public health level recommendations on the use of pneumococcal vaccines in adults, including the use of 15 valent and 20 valent conjugate vaccines. Public Health Agency of Canada. GlaxoSmithKline Inc, email communication, July 2, 2025. GlaxoSmithKline Inc. (2024, December 3). Arepanrix H5N1, AS03-Adjuvanted H5N1 Pandemic Influenza Vaccine. Health Canada drug product database. https://pdf.hres.ca/dpd_pm/00078648.PDF Public Health Agency of Canada. (2023) Canadian Immunization Guide - Government of Canada.	