

Section 7	Biological Product Information	Standard # 07.300
Created and approved by	Provincial Immunization Program Standards and Quality	
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	IMOVAX Polio (Vero Cell Origin)
Manufacturer	Sanofi Pasteur SA – Distributed by Sanofi Pasteur Limited
Classification	Inactivated.
Indications for Provincially Funded Vaccine	Children (2 months up to and including 17 years of age): - Children previously unimmunized with polio vaccine who have already received diphtheria, pertussis and tetanus-containing vaccines. Note: - Use combination vaccines containing diphtheria, pertussis, polio, tetanus and/or Hib and/or Hepatitis B when indicated. - For children travelling to countries where polio is known to be circulating (exporting and/or infected) and who are unimmunized or whose series is incomplete for age, an accelerated schedule can be considered. Refer to Government of Canada Polio: Advice for travellers to see where polio is known to be circulating. - Children travelling to countries currently exporting and/or infected with polio and who have not completed their primary series may need to privately purchase polio vaccine through a local travel health professional (private travel clinic or pharmacy) if travel timelines do not allow scheduling through public health. Adults (18 years of age and older) Adults - Primary immunization as they present: - Adults who have not completed a primary series. Adults - High risk: Adults in the following groups are at increased risk of exposure to poliovirus and should complete a primary series and receive a single lifetime reinforcing dose: - Members of communities or specific population groups with disease caused by polio (for example, refugees from countries where polio is circulating such as Afghanistan, Pakistan, Dadaab [Kenya] and Ukraine evacuees). - Close contact with those who may be excreting poliovirus (for example, people working with refugees or people on humanitarian missions in countries where polio is circulating - exporting and/or infected). Refer to Government of Canada Polio: Advice for travellers to see where polio is known to be circulating. - Family members or close contacts of internationally adopted infants who may have been immunized with oral polio vaccine (OPV) within the past 6 weeks. - Individuals receiving travelers from areas where poliovirus is known to be circulating. Refer to Government of Canada Polio: Advice for travellers to see where polio is known to be circulating. - Wastewater workers, working at wastewater treatment plants, who are exposed to sewage.

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	Health Care Workers (HCW) in Health Care Settings as they present: Health Care Workers should complete a primary series and receive a single lifetime reinforcing dose. This includes: • Laboratory workers handling specimens that may contain poliovirus. • Health care workers and health care students who may be exposed to patients excreting the wild or vaccine strains of poliovirus (contact with stool, fecal matter or pharyngeal secretions). Note: • Single antigen polio vaccine is used when only the polio antigen is required. • Use combination vaccines containing diphtheria, pertussis, polio and tetanus when indicated. For those requiring diphtheria, pertussis and tetanus-containing vaccines – see Biological Product Information Tdap-IPV Combined Vaccine Biological Page. • For adult recipients of Hematopoietic Stem Cell Transplant (HSCT) and Solid Organ Transplant (SOT), see: ◦ Immunization for Adult HSCT Transplant Recipients ◦ Immunization of Adult Solid Organ Transplant Candidates and Recipients • Adults travelling for 4 weeks or greater to countries currently exporting and/or infected with polio are not eligible for provincially funded vaccine. Refer them to local travel health professionals (for example, private travel clinics or pharmacies).
Schedule	Primary series: (Children and Adults) • Dose 1: day 0 • Dose 2: 8 weeks after first dose (interval between doses may be shortened to four weeks) • Dose 3: 6 to 12 months after second dose ◦ It is acceptable to give an additional dose of IPV vaccine at 6 months of age as DTaP-IPV-Hib or DTaP-IPV-Hib-HB for convenience of administration as a combined vaccine. Reinforcing dose Children: • A booster dose of polio-containing vaccine is recommended for children 4 years of age and older, usually as combined vaccine (Tdap-IPV). ◦ This dose is not required if the third dose was given on or after 4 years of age. • Single antigen polio vaccine is rarely recommended for children. ◦ Use only if they are up to date for diphtheria, tetanus and pertussis immunization but not up to date for polio. Adults (18 years of age and older): One adult lifetime reinforcing dose of polio-containing vaccine (at least 10 years after the primary series) is recommended only for the following: • Adults who are at increased risk of exposure to polioviruses who completed the primary series (see Adult-High risk indications noted above). • Health care workers (see Health Care Workers (HCW) indications noted above). Note: • Individuals who require additional antigens contained in the combined vaccines should follow the schedule for that vaccine. • When assessing a schedule for completeness of polio vaccine, individuals should have at least one dose of polio after 4 years of age. More doses may be necessary depending on the timing and spacing of previous doses of polio vaccine.

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	- A history of polio disease should not be considered as evidence of immunity to polio disease because immunity to one of the strains of polio does not produce significant immunity to the other strains. Oral Polio Vaccine (OPV): - As of April 1, 2016, trivalent OPV was replaced with either bivalent or monovalent OPV. - Any OPV doses received on or after April 1, 2016, are not considered valid doses within the routine Alberta Immunization Schedule. To ensure protection against all three poliovirus types, individuals presenting with a record of OPV received on or after April 1, 2016, will require re-immunization with IPV or an IPV-containing vaccine to be considered fully immunized. - For Polio vaccine doses administered April 1, 2016, or later where the record does not clearly identify if the dose of vaccine was OPV or IPV: - Attempt to access immunization schedules for the country and year the vaccine was administered to confirm which polio vaccine product was being used at that time Immunization schedules published by the WHO may assist in identifying current immunization schedules rather than the historical immunization schedules. - If unable to determine the country of vaccine administration or specific polio vaccine product used, then consider the dose invalid as polio unspecified. Fractional Inactivated Polio Vaccine (fIPV): - fIPV is used in countries where there are IPV supply issues. - fIPV is administered via the intradermal route. - In order to be considered a valid single dose of IPV, an individual must receive 2 doses of fIPV 8 weeks apart. - If unable to determine if 2 doses of fIPV were given 8 weeks apart, consider the dose invalid.
Preferred Use	N/A
Dose	0.5 mL
Route	SC
Contraindications/Precautions	Contraindications: - Known severe hypersensitivity to any component of the vaccine or its container. - Anaphylaxis or other allergic reaction to a previous dose of vaccine containing polio antigen. Precautions: - Each dose of vaccine may contain undetectable traces of neomycin, streptomycin and polymyxin B.
Possible Reactions	Common: - Pain and redness at the injection site - Fever. Uncommon: - Injection site mass. Rare: - Anaphylaxis - As with any immunization, unexpected or unusual side effects can occur. Refer to the product monograph for more detailed information.
Pregnancy	Consult with the MOH/designate. Limited data has not revealed an increased risk of adverse events associated with polio vaccine administered during pregnancy.

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	- May be considered during pregnancy for individuals who require immediate protection and are at increased risk of exposure to wild poliovirus. - MOH will make a recommendation based on the individual's risk of disease versus benefit of vaccine.
Lactation	May use for people who are lactating and feeding their milk to infants or children. It is not known if Imovax Polio is excreted in human milk.
Composition	Each 0.5 mL dose of vaccine contains: Active Ingredients: 29 D-antigen units poliovirus type 1 (Mahoney) 7 D-antigen units poliovirus type 2 (MEF1) 26 D-antigen units poliovirus type 3 (Saukett). Non-medicinal Ingredients: 1% or less 2-phenoxyethanol. Manufacturing Process Residuals: 0.02% or less formaldehyde - Less than 1 ppm residual calf serum protein. Trace Amounts: - neomycin - streptomycin - polymyxin B - Medium 199 Hanks* (without phenol red). Note: *Medium 199 Hanks (without phenol red) is a complex mixture of amino acids (including phenylalanine), mineral salts, vitamins and other components (including glucose), supplemented with polysorbate 80, diluted in water for injections.
Blood/Blood Products	Does not contain human blood or blood products. Poliovirus is cultured on Vero cells (a continuous line of monkey kidney cells).
Bovine/Porcine Products	Bovine Products: - Contains trace amounts of residual calf serum protein. Porcine Products: - Porcine derived materials are used as raw materials during the manufacturing process. Various materials of animal origin are used during manufacturing. Presence of residual traces in the final product cannot be excluded.
Latex	Does not contain latex.
Interchangeability	Individuals who began their polio immunization series with OPV prior to April 1, 2016: - Complete series with IPV. - There is no need to restart the vaccine series. Individuals who received OPV doses on or after April 1, 2016: - Doses are invalid as per Alberta immunization schedule. - Repeat doses using IPV.
Administration with Other Products	May be given at the same time as other inactivated and live vaccines. - Use a separate needle and syringe for each vaccine. - The same limb may be used if necessary, but use different sites on the limb. - Space rotavirus vaccine doses at least 2 weeks apart from any OPV doses. - If historical records indicated rotavirus vaccine and OPV were given at less than 2 weeks apart, consider both vaccines as valid doses. - OPV is not available in Canada.

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Preparation	Shake well prior to administration.
Appearance	Clear and colourless.
Storage	• Store at +2°C to +8°C • Do not freeze • Do not use beyond the labeled expiry date.
Vaccine Code	IPV
Antigen Code	POL
Licensed for	Individuals 6 weeks of age and older.
Off-License Use	Not approved for off-license use in Alberta.
Program Notes	• 1956: IPV introduced into the routine childhood immunization program. • 1962: OPV administered in AB. • 1994 July: IPV replaced OPV in routine immunization in combination with Diphtheria, Tetanus and Pertussis vaccine. • 2016 November: ○ Unimmunized adults at low risk of exposure not eligible for provincially funded vaccine. ○ HCWs that might be exposed to patients excreting polio eligible for primary series and single lifetime reinforcement. ○ Travelers to countries exporting and/or infected with polio and staying 4 weeks or longer eligible for primary series and reinforcing dose for adults. • 2018 December: OPV doses given on or after April 1, 2016, are not considered valid in the routine AB immunization schedule and should be repeated. • 2022 April 20: Added indication for polio vaccine for individuals identified as Ukrainian evacuees. Due to the limited supply of IPV vaccine, dTap-IPV is the vaccine of choice for adults who require polio immunization only. • 2022 May 18: Addition of examples of communities and specific population groups with polio. • 2023 September 25: ○ Updated to offer a primary series and reinforcing dose to wastewater workers who handle sewage at wastewater treatment plants. ○ Updated to indicate that adults receiving polio vaccine for the purpose of travel or health care students receiving it prior to placement are not eligible for provincially funded vaccine and must purchase vaccine through a local travel health professional. ○ Clarification that current practice is not to assess and immunize all health care workers, including lab workers, for polio immunization due to the generally low risk of exposure to polio in Alberta and Canada, availability of PPE and the limited supply of vaccine. ○ Information on fIPV included in scheduling note. • 2023 October 2: Updated to clarify countries where polio is circulating. • 2024 January 29: Removed limited supply constraints, adults in health care settings should complete a primary series and have a single lifetime reinforcing dose, and adults previously unimmunized with polio vaccine should receive a primary series. • 2024 April 2: Updated definition of HCW in scheduling section to include: Health care workers and health care students who may be exposed to patients excreting the wild or vaccine strains of poliovirus (contact with stool, fecal matter or pharyngeal secretions). • 2024 May 6: References to dTap changed to Tdap to align with national standards. • 2024 September 24: World Health Organization link indicating where polio is circulating updated. • 2025 January 31: Request to offer polio vaccine to children through the school program until grade 12 removed, as this is the Roles and Responsibilities policy. • 2025 December 1: Updated link to places where polio is circulating.

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Related Resources	Polio (IPV) Vaccine Information Sheet
References Advisory Committee on Immunization Practices. (2023). <i>ACIP Recommendations</i>. United States Centers for Disease Control and Prevention. Alberta Health. (2024, April 2). Adverse Events Following Immunization (AEFI) policy for Alberta immunization providers. In <i>Alberta Immunization Policy: Adverse Events – Immunization</i>. Government of Alberta. Alberta Health. (2024, September 24). Polio Vaccine (IPV). In: <i>Alberta Immunization Policy: Biological Products</i>. Government of Alberta. Centers for Disease Control and Prevention. (2014, July 11). Interim CDC Guidance for Polio Vaccination for Travel to and from Countries Affected by Wild Poliovirus. In <i>Morbidity and Mortality Weekly Report</i>. United States Government. Centers for Disease Control and Prevention. (2017, January 13). Guidance for Assessment of Poliovirus Vaccination Status and Vaccination of Children Who Have Received Polio Vaccine Outside the United States. In <i>Morbidity and Mortality Weekly Report</i>. United States Government. Centers for Disease Control and Prevention. (2021). <i>Epidemiology and Prevention of Vaccine-Preventable Diseases</i> (14th ed.). Public Health Foundation. United States Government. Centers for Disease Control and Prevention. (2024). Poliomyelitis. In <i>CDC Yellow Book: Travel-Associated Infections & Diseases-Viral</i>. United States Government. Pan American Health Organization. (2017, June). <i>What is a fractional dose of IPV?</i> World Health Organization. https://www.paho.org/en/documents/what-fractional-dose-ipv-ja2017-06 Polio Global Eradication Initiative. (2017, April). <i>Use of fractional dose IPV in routine immunization programs: Considerations for decision making</i>. World Health Organization. https://cdn.who.int/media/docs/default-source/immunization/tables/fipv-considerations-for-decision-making-april2017.pdf Public Health Agency of Canada. (2025, Sept 24) Polio: Advice for Travellers. In <i>Travel health and safety: Travel health notices</i>. Government of Canada. https://travel.gc.ca/travelling/health-safety/travel-health-notices/508 Public Health Agency of Canada. (2024, September 3). <i>Canadian Immunization Guide</i>. Government of Canada. Sanofi Canada Medical Information (manufacturer). Email communication. April 2, 2025.Sanofi Pasteur Limited. (2023, October 30). IMOVAX Polio: Inactivated Poliomyelitis Vaccine (Vero Cell Origin). Health Canada Drug Product Database. https://pdf.hres.ca/dpd_pm/00073110.PDF	