

COVID-19 Vaccine – mRNA Moderna Spikevax XBB.1.5 – Frozen Vaccine Biological Page

			Biological Page		
Section 7:	Biological Product Information		Standard #: 07.224		
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	COVID-19 Vaccine – mRNA Moderna Spikevax XBB.1.5 – Frozen Vaccine Royal blue cap & coral blue label		
Manufacturer	Moderna		
Biological Classification	XBB.1.5 andusomeran mRNA vaccine		
Indications for Provincially Funded Vaccine	 One dose for immunocompetent individuals 6 months to 4 years of age who have previously completed a non-XBB series. Completion of a 2-dose series for immunocompetent individuals 6 months to 4 years of age who have not received 2 doses of a COVID-19 vaccine series. One dose for all immunocompetent individuals 5 years of age and older regardless of the product type and number of doses of COVID-19 vaccines received in the past. Completion of a 3-dose series for individuals 6 months of age and older who are moderately to severely immunocompromised. One dose for moderately to severely immunocompromised individuals who have completed a 3-dose non-XBB.1.5. series 		
Preferred Use			
Dose	6 months to 11 years of age • 0.25 mL (25 mcg) <u>12 years of age and older</u> • 0.5 mL (50mcg)		
Route	IM in the vastus lateralis or deltoid muscle		
Schedule for healthy immunocompetent individuals (See below Schedule for individuals with certain immunocompromising conditions)	Individuals 6 months to 4 years of age: Previously unimmunized: • Dose 1: day 0 • Dose 2: at least 8 weeks after dose 1 Previously immunized with one dose of a non-XBB.1.5 COVID-19 vaccine series: • 1 dose, at least 8 weeks from previous dose, regardless of product type. Note: Individuals 6 months to 4 years of age should complete a two-dose series of COVID-19 vaccine. Regardless of which product was offered to start a series, the previous dose should be counted, and the series does not need to be restarted. Previously completed non-XBB.1.5 COVID-19 vaccine series:		
	1 dose, at least 3 months from previous dose		

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	Individuals 5 years of age and older:			
	 1 dose, at least three months from previous COVID-19 vaccine dose, regardle of the number of doses received in the past. 	ess		
Schedule for individuals with	Individuals 6 months of age and older:			
certain moderate to	Previously received fewer than 3 doses of non-XBB.1.5 COVID-19 vaccine:			
severe immunocompromising conditions	 Moderately to severely immunocompromised individuals should follow the schedule below and receive the appropriate number of Moderna Spikevax XBB doses to complete a 3-dose series. Regardless of which COVID-19 vaccine product(s) were administered, the previous dose(s) should be counted, and the series does not need to be restarted. 			
	 Dose 1: day 0 			
	 Dose 2: at least 28 days after dose 1 			
	 Dose 3: 8 weeks after dose 2 			
	Note:			
	Based on data from studies of original mRNA COVID-19 vaccines, Moderna Spikevax original (100 mcg) induces somewhat higher antibody levels compared Pfizer-BioNTech Comirnaty original (30 mcg) and protection (against infection a severe disease) may be more durable. It is reasonable to expect a similar result from Moderna Spikevax XBB.1.5.	and		
	For individuals 12 to 29 years of age who are completing a three-dose series, Pfizer-BioNTech Comirnaty vaccine is preferred over Moderna Spikevax vaccine	e.		
	 This aligns with NACI's previous recommendations based on the finding of lower risk of myocarditis and/or pericarditis observed after dose 1 and dose of a primary series with Pfizer-BioNTech Comirnaty original (30 mcg) compared to Moderna Spikevax original (100 mcg). 			
	 Post-market safety surveillance data on previous formulations of mRNA COVID-19 vaccine indicate that the risk of myocarditis following a booster dose is lower compared to that following the second dose in the primary series, and current data do not show a product-specific difference in the risk of myocarditis and/or pericarditis after a booster dose of an mRNA COVID- vaccine. 	sks		
	 However, Moderna Spikevax XBB.1.5 can be provided if preferred by an individual or their specialist. See the <u>precautions</u> section for further information on myocarditis/pericarditis. 			
	Previously received 3 or more doses of non-XBB.1.5 COVID-19 vaccine:			
	 1 dose, at least 3 months from previous dose. Note: 			
	 It is recommended that individuals with certain immunocompromising conditions immunized with a series of three doses of an mRNA COVID-19 vaccine. This is provide stronger protection for those who may have a suboptimal immune response to vaccines. 			

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•	The interval between dose 2 and dose 3 is recommended to be 8 weeks because emerging evidence from the general population indicates that a longer interval will likely result in a better immune response and duration of protection.
	• However, there is heterogeneity of risk from COVID-19 among those who are moderately to severely immunocompromised. In addition, the likelihood of a reduced response to vaccines will vary depending on the immunocompromising condition. Thus, a shortened interval no less than 28 days between dose 2 and 3 may be considered for those with increased risk of exposure and greater severity of immunodeficiency based on their clinician's recommendation.
•	Specific immunocompromising conditions that make an individual eligible for a three dose COVID-19 vaccine series:
	 Solid organ transplant recipients – pre-transplant and post-transplant
	 Hematopoietic stem cell transplants recipients – pre-transplant and post- transplant while in immunosuppressed state (post-HSCT individuals are generally considered to be immunocompetent after 3 years as long as they are not on immunosuppressive drugs)
	 Individuals with malignant hematologic disorders and non-hematologic malignant solid tumors prior to receiving or while receiving active treatment which includes chemotherapy, targeted therapies, and immunotherapy or having received previous COVID-19 vaccines while on active treatment (does not include individuals receiving solely hormonal therapy, radiation therapy or a surgical intervention).
	\circ $\;$ Individuals with chronic kidney disease on peritoneal dialysis or hemodialysis.
	 Individuals receiving chimeric antigen receptor (CAR) T-cell therapy.
	• Individuals on:
	 long term high-dose systemic steroid treatment (prednisone equivalent of ≥ 2 mg/kg/day or 20 mg/day if weight > 10 kg, for ≥ 14 days), or
	 alkylating agents, or
	 Individuals on anti-B-cell therapies – including anti-CD19, anti-CD20, anti-CD22 and anti-CD52 monoclonal antibodies (such as rituximab, ocrelizumab, and ofatumumab), or
	 antimetabolites (e.g., methotrexate, azathioprine, mycophenolate), or
	 tumor-necrosis factor (TNF) inhibitors (e.g., adalimumab, certolizumab, etanercept, golimumab, infliximab), or
	 other agents that are significantly immunosuppressive at clinicians' discretion
	 HIV-infected individuals without viral suppression or those with acquired immunodeficiency syndrome (AIDS).
	 Individuals with moderate to severe primary immunodeficiency (e.g., DiGeorge syndrome, Wiskott-Aldrich syndrome).

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	Note:			
	• Documentation of immunocompromising conditions is not required. Individuals who identify themselves as meeting at least one of the criteria above should be offered a 3-dose series.			
	• Immunization of immunocompromised individuals should occur at a time when the individual is most likely to mount an immune response. Physician consultation is recommended regarding the timing of immunization (initiation and interval) based on the individual's treatment and unique circumstances.			
	• Hematopoietic stem cell transplant (HSCT) recipients who received COVID-19 vaccine pre-transplant are eligible to restart their COVID-19 vaccine series beginning at least 3 months post-transplant. Consultation with their HSCT physician is not necessary if the initial clearance letter has been received to proceed with inactivated vaccines.			
	• CAR T-cell therapy recipients without a prior history of HSCT who received COVID- 19 vaccine pre-CAR T-cell therapy are eligible to restart their COVID-19 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 recommendations:			
	 Principles of Immunization in Hematopoietic Stem Cell Transplant and Solid Organ Transplant Recipients 			
	• <u>Child HSCT</u>			
	• <u>Adult HSCT</u>			
Interval between previous COVID-19 infection and COVID-	For individuals with a history of COVID-19 infection the following guidance is provided on suggested intervals between infection and COVID-19 immunization.			
19 immunization	Note:			
	• These suggested intervals are based on immunological principles and expert opinion, and may change as evidence on COVID-19, variants of concern (VOCs), and COVID-19 vaccines emerge. When considering whether to administer vaccine doses following the suggested intervals outlined in this table, biological and social risk factors for exposure (e.g., local epidemiology, circulation of VOCs, living settings) and risk of severe disease should also be considered. These intervals are a guide and clinical discretion is advised. Individuals can be immunized at less than the recommended intervals from infection upon request.			
	• For individuals who have not had any previous doses, they may receive their first dose after acute symptoms of COVID-19 have resolved and they are no longer infectious, or they may follow these suggested intervals (with the exception of those with MIS-C who should wait at least 90 days).			
	Infection prior to initiation or completion of a COVID-19 immunization series.Individuals without certain immunocompromising conditions AND no history of multisystem inflammatory syndrome in children (MIS-C).8 weeks after a positive test.			

	COVID-19 Vaccine – mR Fro	1.5 – Royal blue cap & coral blue label		
		Individuals with certain immunocompromising conditions (as listed above) AND no history of MIS-C.	 4 to 8 weeks after a positive test. Receive the vaccine when clinical recovery has been achieved or at least 90 days since the onset of MIS-C, whichever is longer. 3 months after symptom onset or positive test AND at least 3 months after the previous dose. 	
		History of MIS-C (regardless of immunocompromised status).		
	Infection after COVID-19 vaccine series but before a COVID-19 XBB.1.5 dose.	All individuals.		
Precautions	 Contraindications: Known severe hypersensitivity to any component of the vaccine. Two non-medicinal ingredients in the vaccine that have been associated with allergic reactions in other products: Polyethylene glycol (PEG). The potential allergen may be found in bowel preparation products for colonoscopy, laxatives, cough syrup, cosmetics, contact lens care solutions, skin products and some food and drinks. Tromethamine (trometamol or Tris) – component found in contrast media, oral and parenteral medications. Anaphylaxis to a previous dose of COVID-19 mRNA vaccine may not be an absolute contraindication. See <u>COVID-19 Immunization for Individuals with Allergies and Other Health Conditions</u> for recommendations. Precautions: The safety and effectiveness of Spikevax XBB.1.5 for individuals 6 months of age and older is inferred from several studies of a primary series and booster dose of Spikevax Bivalent (Original/Omicron BA.1) in individuals 6 months to 5 years of age, a booster dose study of Spikevax Bivalent (Original/Omicron BA.1) in individuals 18 years of age and older, as well as data from studies which evaluated the primary series and booster vaccination with Spikevax (Original). There are no known serious warnings or precautions associated with this product. Very rare cases of myocarditis and/or pericarditis following immunization with Moderna Spikevax vaccines have been reported during post-authorization use. Individuals who have had a serious allergic reaction to another vaccine, drug or food should talk to their health care provider before receiving the vaccine. 			

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	Administration should be postponed in individuals suffering from acute severe febrile illness.		
Myocarditis/Pericarditis	• Very rare cases of myocarditis and/or pericarditis following immunization with Moderna Spikevax vaccines have been reported during post-authorization use. See Schedule for individuals with certain moderate to severe immunocompromising conditions above.		
	 Anyone receiving an mRNA COVID-19 vaccine should be informed of the risk of myocarditis and pericarditis and advised to seek medical attention if they develop related symptoms including shortness of breath, chest pain, or the feeling of a rapid or abnormal heart rhythm. 		
	 Healthcare professionals are advised to consider the possibility of myocarditis and/or pericarditis in their differential diagnosis if individuals present with chest pain, shortness of breath, palpitations or other signs and symptoms of myocarditis and/or pericarditis following immunization with an mRNA COVID-19 vaccine. 		
	• Generally, deferral of COVID-19 immunization is not required for those with a prior history of myocarditis or pericarditis that is unrelated to COVID-19 mRNA vaccines.		
	 If these individuals have questions or concerns about their prior history of myocarditis or pericarditis and immunization, it is recommended that individuals consult with their clinician. However, consultation with a clinician is not required to receive COVID-19 vaccines. 		
	 Individuals with a history compatible with pericarditis within 6 weeks of receiving a dose of an mRNA COVID-19 vaccine, who either had no cardiac workup or who had normal cardiac investigations, can be re-immunized when they are symptom free an at least 90 days have passed since previous immunization. 		
	• In most circumstances, further doses of mRNA COVID-19 vaccines should be deferred among people who experienced myocarditis (with or without pericarditis) within 6 weeks of receiving a previous dose of an mRNA COVID-19 vaccine.		
	 However, further doses may be offered if individuals with confirmed myocarditis or pericarditis with abnormal cardiac investigation choose to receive another dose of vaccine after discussing the risks and benefits with their clinician. 		
	 Informed consent should discuss the unknown risk of recurrence of myocarditis and/or pericarditis following additional doses of COVID-19 vaccine in individuals with a history of confirmed myocarditis and/or pericarditis after a previous dose of mRNA COVID-19 vaccine. 		
Possible Reactions	Common: Pain at the injection site Fatigue Myalgia Headache Arthralgia Axillary swelling or tenderness Chills Erythema Nausea/vomiting 		
	Fever		

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	 Swelling/induration Hypoaesthesia (decreased sense of touch or sensation) Paraesthesia (tingling, itching or pricking sensation) Dizziness Irritability in children 5 years of age and younger Crying in children 5 years of age and younger Sleepiness in children 5 years of age and younger Loss of appetite in children 5 years of age and younger Allergic reaction Anaphylaxis Erythema multiforme Facial paralysis/Bell's palsy 		
Pregnancy	 Refer to the product monograph for more detailed information. COVID-19 vaccine should be offered to pregnant individuals regardless of trimester of pregnancy. An mRNA vaccine is preferred due to reassuring published data on the safety of these vaccines in pregnancy. 		
	 The safety and efficacy of Moderna Spikevax XBB.1.5 in pregnant women have not yet been established. However, data available on the original mRNA vaccines administered in pregnancy did not detect safety signals from post-marketing surveillance. COVID-19 mRNA vaccines can be offered to pregnant individuals as they are more at risk for severe illness from COVID-19 compared with non-pregnant individuals. 		
	 Evidence to date shows that COVID-19 immunization during pregnancy is safe and does not increase risk for miscarriage, stillbirth, low birth weight, preterm birth, NICU admission, or other adverse pregnancy/birth outcomes. 		
	 It is recommended that individuals consult their primary health care provider or obstetrician for any vaccine related questions or concerns. 		
	 However, consultation with a primary health care provider or obstetrician is not required to receive COVID-19 vaccine. 		
	Additional resources: Society of Obstetricians and Gynecologists of Canada Statement on COVID-19 Immunization in Pregnancy		
Lactation	It is unknown whether this vaccine is excreted in human milk. A risk to the newborns/infants cannot be excluded.		
	• Recent reports have shown that breastfeeding people who have received mRNA COVID-19 vaccines have antibodies in their breastmilk, which could help protect their babies. More data are needed to determine the level of protection these antibodies might provide to the baby.		
	COVID-19 vaccine is recommended for individuals who are breastfeeding.		
	 It is recommended that individuals consult their primary health care provider or medical specialist for any vaccine related questions or concerns. 		
	 However, consultation with a primary health care provider or medical specialist is not required to receive COVID-19 vaccine. 		

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Composition	 Andusomeran (mRNA) encoding the pre-fusion stabilized conformation variant (K982P and V983P) of the SARS-CoV-2 Spike glycoprotein (Omicron subvariant XBB.1.5) Non-medicinal ingredients: Acetic acid Cholesterol DSPC (1,2-distearoyl-sn-glycero-3- phosphocholine) Lipid SM-102 PEG2000-DMG (1,2-dimyristoyl-rac-glycerol,methoxy-polyethyleneglycol) Sodium acetate trihydrate Sucrose Trometamol Trometamol hydrochloride Water for injection Does not contain any preservatives, antibiotics, adjuvants or human or animal 		
Blood/Blood Products	derived materials. Does not contain blood/blood products.		
Bovine/Porcine Products	Does not contain bovine/porcine products.		
Latex	Does not contain latex.		
Administration with Other Products	 COVID-19 vaccines may be co-administered with, or at any time before or after other vaccines (including, live, inactivated, adjuvanted, or unadjuvanted vaccines), tuberculin skin tests or IGRA (QFT) tests to individuals 6 months of age and older. There is a theoretical risk that COVID-19 vaccines may temporarily affect cell-mediated immunity, resulting in false-negative tuberculin skin testing or IGRA (QFT) test results. In the absence of data and acknowledging the importance of both timely tuberculosis testing and immunization, immunization with COVID-19 vaccines can take place at any time before, after or at the same visit as the TST or IGRA test. However, repeat tuberculin skin testing or IGRA (at least 4 weeks post COVID-19 immunization) of individuals with negative TST or IGRA results for whom there is high suspicion of latent tuberculosis may be considered to avoid missing persons with TB infection. Deferral of COVID-19 immunization is not recommended for individuals who have received anti-SARS-CoV-2 monoclonal antibodies or convalescent plasma provided for treatment or prophylaxis of COVID-19 just because they received these pharmacological interventions. This applies to people who received these before receiving any COVID-19 vaccine dose or between doses. A study among nursing home residents and staff demonstrated that recipients of a SARS-CoV-2 monoclonal antibody (bamlanivimab), mounted a robust immune response to mRNA immunization, regardless of age, risk category or vaccine type. Although antibody response was numerically lower in people who received monoclonal antibodies, they were still considered to be high and the clinical significance of the reduction is unknown. 		

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	 There was no correlation between interval to COVID-19 immunization and neutralizing titres in recent monoclonal antibody recipients. 		
	 Intervals between previous COVID-19 infection and COVID-19 immunization outlined in this document would still apply to individuals who got the monoclonal antibodies or convalescent plasma for their infection. Individuals who are to receive Evusheld (tixagevimab and cilgavimab) as pre-exposure prophylaxis should wait at least 2 weeks following COVID-19 immunization to minimize interference. 		
	Note:		
 Timing of administration and potential interference between COVID-1 monoclonal products not used for treatment or prophylaxis of COVID are currently unknown and the primary health care provider or medic should be consulted on a case-by-case basis. 			
	mRNA COVID-19 vaccines may be given at any time before or after an immunoglobulin preparation (including RhIg) or blood product has been administered. There is no recommended minimum interval between these products and COVID-19 vaccine.		
Appearance	White to off-white dispersion.		
	May contain white or translucent product-related particulates.		
Storage	 Store in freezer between -25°C to -15°C. Protect from light. Do not refreeze after thawing. Thawed, unpunctured: Thawed, unpunctured vials can be stored at +2°C to +8°C for up to 30 days. Thawed, unpunctured vials can be stored at +8°C to +25°C for up to 24 hours. Thawed, punctured vials: Thawed, punctured vials (first dose is withdrawn) can be stored at +2°C to +25°C for 24 hours. Discard after 24 hours. 		
Packaging	• 2.5 mL vial (5 x 0.5 mL doses or 10 x 0.25 mL doses)		
Preparation/ Reconstitution	 10 vials per carton Multidose vials are supplied as a frozen dispersion, does not contain preservative. Thaw vaccine before use: Vaccine can be thawed in two ways: From the freezer to room temperature (between +15°C to +25°C), thaw for 45 minutes from frozen state. From the freezer to a vaccine fridge (+2°C to +8°C), thaw for 2 hours from the frozen state. After thawing, let vial stand at room temperature for 15 minutes before administering. Must not be reconstituted, mixed with other medicinal product, or diluted. No dilution is required. Swirl gently after thawing and before each withdrawal. 		
	 Do not shake vial. 		

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Antigen Code	COVID-19		
Licensed for	 Individuals 6 months of age and older. Off-license use: An interval of less than 6 months from previous dose for individuals completed a non-XBB.1.5 series. 		
	Three-dose series for individuals who are moderately to severely immunocompromised.		
Program Notes:			
• September 12, 2023 -	- Licensed for use in Canada.		
 October 2, 2023 – Imp 			
Related Resources:			
Alberta Health Service	es Website (2023). COVID-19 mRNA Vaccine Information		
	ccine Information Sheet (105240)		
 Spikevax XBB.1.5 mRN/ <u>Vaccine Storage and Ha</u> Benschop, et al. (2021 D immune response to CO Centers for Disease Con who are Pregnant or Bre Centers for Disease Con COVID-19 Vaccines: Re <u>https://www.cdc.gov/vacc</u> Expert opinion of Alberta Health Canada. Recalls an 	ealth Division. Alberta Immunization Policy. (2023 October 2). COVID-19 Vaccia A. <u>Alberta Health. Public Health Division. Alberta Immunization Policy. (2023 October 2)</u> December 16). The effect of anti-SARS-CoV-2 monoclonal antibody, bamlanivir VID-19 vaccination. medRxiv. Preprint. <u>https://doi.org/10.1101/2021.12.15.212</u> htrol and Prevention. (updated 2022 October 20) Information about COVID-19 V astfeeding. <u>https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommenda</u> htrol and Prevention. (2023, September 12). Presentation – September 12, 202 commendations of the Advisory Committee on Immunization Practices (ACIP), <u>cines/acip/meetings/slides-2023-09-12.html</u> a Advisory Committee on Immunization, September 20, 2023. nd safety alerts. (2020 December 12) Pfizer-BioNTech COVID-19 vaccine: Health Co log with serious allergies. https://baolthycanadiage.on co/progl.alert.rappel.avis/bcs	<u>ctober 2). Alberta</u> nab, on endogenous <u>167605</u> Vaccines for People <u>ations/pregnancy.html</u> 23 Meeting on	
 recommendations for people with serious allergies. <u>https://healthycanadians.gc.ca/recall-alert-rappel-avis/hc-sc/2020/74543a-eng.php</u> 7. National Advisory Committee on Immunization. (2023 September 12). Canadian Immunization Guide (Evergreen ed.). 			
 Ottawa, ON: Public Health Agency of Canada <u>https://www.canada.ca/en/public-health/services/publications/healthy-living/canadian-immunization-guide-part-4-active-vaccines/page-26-covid-19-vaccine.html</u> National Advisory Committee on Immunization. (2023 September 12). Addendum to the guidance on the use of COVID-19 vaccines in the fall of 2023. <u>https://www.canada.ca/content/dam/phac-aspc/documents/services/publications/vaccines-</u> 			
 National Advisory Comm 2023. <u>https://www.canad</u> 	immunization/national-advisory-committee-immunization-addendum-guidance-use-covid-19-vaccines-fall-2023/statement.pdf National Advisory Committee on Immunization. (2023 July 11). Guidance on the use of COVID-19 vaccines in the fall of 2023. <u>https://www.canada.ca/content/dam/phac-aspc/documents/services/publications/vaccines-immunization/national-</u>		
 National Advisory Comm COVID-19 vaccine boost 	nunization-guidance-use-covid-19-vaccines-fall-2023/statement.pdf nittee on Immunization. (2022 June 29). Interim guidance on planning consider ter program in Canada. <u>https://www.canada.ca/en/public-health/services/immu</u> mmunization-naci/guidance-planning-fall-2022-covid-19-vaccine-booster.html		
^{11.} Shimabukuro, T., Kim, S England Journal of Medi	6., et al. Preliminary Findings of mRNA Covid-19 Vaccine Safety in Pregnant Period. (2021 April 21) https://www.nejm.org/doi/full/10.1056/NEJMoa2104983 023 September 12) COVID-19 mRNA vaccine, Monovalent (XBB.1.5 Variant). Dis		
intramuscular injection: P	Product Monograph. <u>https://covid-vaccine.canada.ca/info/pdf/spikevax-xbb-1-5-pm-</u> cep.health&utm_medium=urlshortener&utm_campaign=covid-		