COVID 19 Vaccine Implementation Task Force

Clinic Reference

Title:	Moderna SPIKEVAX™COVID-19 Vaccines Quick Reference for Immunizers
Area:	Reference for Immunizers
Effective Date:	February 5, 2021
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Approver:	FINAL

Moderna SPIKEVAX[™] elasomeran mRNA vaccine indicated for active immunization against coronavirus disease 2019 (COVID-19) and Moderna SPIKEVAX[™] Bivalent (Original/Omicrom) elasomaran mRNA vaccine (booster dose)

Disclaimer: this Quick Reference is not intended to replace other product specific vaccine references. The document is intended a quick reference for frequently referred to information. Please refer to the product monograph and other Moderna SPIKEVAX^M specific resources for all current and complete information.

Additional resources:

Monovalent Product Monograph: <u>https://www.gov.mb.ca/asset_library/en/covidvaccine/moderna-pm.pdf</u> Bivalent Product Monograph: <u>https://www.gov.mb.ca/asset_library/en/covidvaccine/moderna-bivalent-pm.pdf</u>

Eligibility Criteria:

Please refer to <u>Province of Manitoba | Eligibility Criteria (gov.mb.ca)</u> for the most up to date information on booster dose eligibly criteria.

Canadian Immunization Guide:

For the guidance on special populations, please refer to and follow guidance in the Canadian Immunization Guide.

Fact Sheets:

For information on vaccine risk and intended benefits, please refer to the <u>Provincial factsheets</u>

Summary of document tables:

Table 1: Third dose recommendations: immunocompromised

Table 2: Third dose recommendations: non-Health Canada approved

Table 3: Manitoba Health recommended mRNA immunization schedule, based on age.

Table 4: Storage and Handling of Manitoba approved COVID-19 vaccines

Product Information	Approved immunization intervals	Presentation	Clinic Setting Considerations	Administration		
6 months to 5 years						
Primary series:	Recommended Interval:	Cap: Royal Blue	Thaw time*:	Administered: Int	ramuscular	
2 dose regimen 0.25mL	8 weeks *	Concentration: 0.10mg/ml	<u>2° to 8°C (Refrigerator):</u>			
(25mcg)	Authorized Interval:	Vial volume: 2.5ml	2 hours			
Note: 3 rd dose may be	28 days	(multidosevial)		Pediatric Intramu	ıscular needle le	ngth selection
recommended for some	Minimum Interval:	10 doses per vial*	<u>15° to 25° C (Room</u>	Ages 6 m	onths to under 5	s years
individuals. See table 2	21 days	Dose: 25mcg (0.25ml)	temperature): 45 min			
		2. /	Let thawed product stand at	AGE	SITE	NEEDLE
Booster dose: Not approved		Do not dilute	room temperature 15			LENGTH
for this age group			minutes prior to use.	Infants (6-	Anterolateral	1″
		Inspect vials: White/off-		12months)	thigh	
		white dispersion and may	Discard time:	Young children	Deltoid	5/8" to 1"
<u>5 years of age:</u>		contain white or	Once the vial has been	(12months-3		
NACI recommends that the		translucent product-	punctured, refrigerate or	vears)		
Moderna/Spikevax™ vaccine		related particulates. If	store at room temperature	Young children	Anterolateral	At least 1"
(25 mcg) may be offered to		solution contains foreign	for maximum 24 hrs, then	(12months-3	thigh	
children five years of age as		particulates or	discard.	years)	U	
an alternative to the		discoloration, do not		Children 3+	Deltoid	5/8" to 1"
Pfizer/Comirnaty™ vaccine		administer.	Thawed vials and filled			
(10 mcg); however, the			syringes can be handled in			
Pfizer/Comirnaty™ (10 mcg)			room light conditions			
vaccine is preferred in this						
age group.						
	*See Table 1,	*Do not puncture vial more	*Do not refreeze once			
	(Recommended mRNA	than 10 times	thawed			
	schedule)					
Potential allergens: None kno	own					
The product is latex and prese	ervative free					

NOTE: Moderna SPIKEVAX[™] (25 mcg) COVID-19 vaccine for 6 months to 4 years should not routinely be given concurrently (i.e., same day) with other vaccines. NACI recommends that Moderna SPIKEVAX[™] (25 mcg) COVID-19 vaccine should be given 14 days before or after a different vaccine

NOTE:

If more than the expected number of doses are drawn from a vaccine vial (greater than 10 or 20 doses, depending on formulation), vaccine may be administered, provided the full dose can be drawn from one vial (do not pool vaccine from multiple vials), all infection control practices have been maintained, and inventory is updated accordingly.

Product Information	Approved immunization intervals	Presentation	Clinic Setting Considerations	Administration
Monovalent formulation: 6 to 12	l years and ≥12 years			
Primary Series:	Primary series	Cap: Red	Thaw time*:	Administered: Intramuscular
Individuals 6 to 11 years of age:	intervals:	Concentration: 0.20mg/ml	<u>2° to 8°C (Refrigerator):</u> 2 hours	
2 dose regimen of 0.25 mL (50 mcg)	Recommended	Vial volume: 5 ml (multidose		Site: deltoid
	Interval: 8 weeks *	vial)	<u>15° to 25° C (Room temperature):</u>	
Individuals≥12 years of age:	Authorized Interval:		45 min	Needle length:
2 dose regimen of 0.5 mL (100 mcg)	28 days	0.25ml (50mcg) dose: 20		5/8" to 1 ½"
	Minimum Interval:	doses per vial*	Let thawed product stand at	Clinical judgement should be
Note: 3 rd dose may be recommended	21 days	0.5ml (100mcg) dose: 10	room temperature 15 minutes	used when selecting needle
for some individuals. See table 2		doses per vial*	prior to use.	length for IM injections. Consider clients weight, age,
Booster dose:	Booster dose intervals:	Dose:	Discard time:	gender and muscle mass.
Individuals 6 to 11 years of age:	Recommended	6 to 11 yrs:50mcg (0.25ml)	Once the vial has been	
Moderna/Spikevax [™] not approved for	Interval: 6 months	≥ 12 years: 100mcg (0.5ml)	punctured, refrigerate or store at	
this age group.			room temperature for maximum	
	Minimum Interval:	Do not dilute	24 hrs, then discard.	
<u>Individuals≥12 years of age:</u>	*3 months			
50 mcg (halfdose)		Inspect vials: White/off-white	Thawed vials and filled syringes	
		dispersion and may contain	can be handled in room light	
*High Risk populations (first booster		white or translucent product-	conditions.	
<u>only):</u>		related particulates. If		
100mcg (full dose)		solution contains foreign	Pre-loaded syringes can be stored	
		particulates or discoloration,	at room temperature or	
		do not administer.	refrigerated and must be used by	
			end of clinic.	
*People who are:	*For those who	*Do not puncture vial more	*Do not refreeze once thawed	
 Immunocompromised 	identify as being at	than 20 times		
 Living in a PCH/EPH 	increasedrisk			
 ≥ 70 years or 				
 received 2 non-Health 	See Table 1,			
Canada approved vaccines	(Recommended mRNA schedule)			
Potential allergens: None known				
The product is latex and preservative free	e			

Product Information	Approved immunization intervals	Presentation	Clinic Setting Considerations	Administration
Bivalent formulation: Original/Omicron	Booster ≥18 years			
Not for use as primary series Booster dose:	Recommended Interval: 6 months	Cap: Blue Label: Green	Thaw time*: <u>2° to 8°C (Refrigerator):</u> 2 hours	Administered: Intramuscular
Individuals 6 to 11 years of age: Not approved for this age group. Individuals 12 to 17 years of age: Not approved for this age group. Individuals ≥ 18 years of age: One dose 0.5ml (50mcg)	Minimum Interval: *3 months	Concentration: 0.10mg/ml Vial volume: 2.5 ml (multidosevial) Dose: 0.5ml (50mcg) dose Do not dilute	15° to 25° C (Room temperature): 45 min Let thawed product stand at room temperature minutes prior to use. Thawed vials and filled	Site: deltoid Needle length: ≥1" Clinical judgement should be used when selecting needle length for IM injections. Consider clients weight, age, gender and muscle mass.
Current eligibility criteria available online: https://www.gov.mb.ca/covid19/vaccine/eligibility criteria.html	See Table 1, (Recommended mRNA schedule)	Inspect vials: White/off- white dispersion and may contain white or translucent product- related particulates. If solution contains foreign particulates or discoloration, do not administer.	syringes can be handled in room light conditions. Discard time: Once the vial has been punctured, refrigerate or store at room temperature for maximum 24 hrs, then discard. Pre-loaded syringes can be stored at room temperature or refrigerated and must be used within 24 hours.	
	*For those who identify as being at increased risk	*Do not puncture vial more than 20 times	*Do not refreeze once thawed	

Recommendations on COVID-19 Doses for the Primary Series:

- Children that are 5 years of age should initiate the pediatric Pfizer COMIRNATY™ primary series.
- For children 6 years to 11 years of age, the use of Pfizer COMIRNATY TM (10mcg) is preferred to Moderna Spikevax (50 mcg) to start or continue the primary vaccine series.
- Manitoba recommends that young people age 12 29 years receive Pfizer COMIRNATY[™] for their primary series doses, to minimize the rare potential increased risk of myocarditis/pericarditis.
- A person who received a first dose of an mRNA vaccine (COMIRNATY[™] or SPIKEVAX[™]) should be offered the same mRNA vaccine for their second dose.
 - If the same mRNA vaccine is not available or unknown, another mRNA vaccine can be considered interchangeable and should be offered to complete the vaccine series.
 - If a different mRNA vaccine is given as a second dose with appropriate spacing, both doses are considered valid and the series complete.
- While the **recommended** interval for the primary series, of 8 weeks is preferred, if a person presents for an immunization and would otherwise not return within that recommended interval, the immunizer may proceed with administering the subsequent dose if the **authorized minimum** interval has passed, provided the first dose product received was an mRNA vaccine (COMIRNATY[™] or SPIKEVAX[™]).
 - o The minimum interval of 21 days is not recommended; however, would be considered a valid dose in PHIMS.
- The recommended interval for booster doses is 6 months between the most recent dose (primary series, previous booster dose) and the eligible booster. However, a booster dose may be administered using a 3 month interval after discussing the risk and benefits of a shortened interval with the client.
- It is recommended for individuals to wait 6 months since their last COVID-19 infection. At minimum, they need to be fully recovered and completed their isolation period before receiving a booster dose.

NOTE: The date the first vaccine was administered is considered "day 0" when counting minimum intervals. Interruption of a vaccine series resulting in a greater than recommended interval between doses does not require restarting the series.

Allergies:

Refer to <u>Manitoba COVID-19 Vaccine</u>: <u>Clinical Practice Guidelines for Immunizers and Health Care Providers – Appendix C</u> for precautionary information on national guidance related to allergic responses to vaccines.

Third dose recommendations for those moderately to severely immunocompromised					
Cohort	Product	Dose	Recommended interval		
6 months to 4 years	Royal Blue Cap	0.25ml (25mcg)	28 days after their second dose. Considered part of the primary series.		
6 to 11 years	Red Cap	0.25ml (50 mcg)	28 days after their second dose. Considered part of the primary series.		
≥ 12 years	Red Cap	0.5ml (100mcg)	28 days after their second dose. Considered part of the primary series.		

Table 1 (Third dose [primary series] recommendations, immunocompromised)

Table 2 (Third dose recommendations [primary series], non-Health Canada approved)

Third dose reco approved vacci		or individuals with 1 or	Manitoba Health accepted primary series combinations	
6 to 11 years	Red Cap	0.25ml (50 mcg)	≥ 28 day interval after last dose to complete their primary series.	 Two mRNA vaccines (Pfizer or Moderna) Two AstraZeneca vaccines AstraZeneca and one dose of an mRNA vaccine (Pfizer or
≥ 12 years	Red Cap	0.5ml (100mcg)	≥ 28 day interval after last dose to complete their primary series.	 Moderna) One dose of Janssen Three non-Health Canada Approved vaccines One or two non-Health Canada Approved Vaccines and one dose of an mRNA Vaccine (Pfizer or Moderna) For moderately to severely immunocompromised Three doses (any combination of AstraZeneca, Pfizer and/or Moderna)

NOTE: For people unwilling or unable to receive an mRNA vaccine, Novavax Nuvaxovid can be used for the additional dose.

	Approved COVID-19 mRNA vaccine	Time between 2 doses of primary series	<i>Immunosuppressed:</i> Time between 3 doses of primary series	Time between most recent dose and any eligible booster dose
Infants and children aged 6 months to 4 years	Moderna/Spikevax™ (25mcg)	8 weeks	4 to 8 weeks between each dose	Not eligible
Children aged 5 years *	Pfizer/Comirnaty ™ (10mcg) or Moderna/Spikevax™ (25mcg)	8 weeks	4 to 8 weeks between each dose	6 months ^
Children aged 6 to 11 years *	Pfizer/Comirnaty ™ (10mcg) or Moderna/Spikevax™ (50mcg)	8 weeks	4 to 8 weeks between each dose	6 months ^
Youth aged 12 to 17 years *	Pfizer/Comirnaty ™ (30mcg) or Moderna/Spikevax™ (100mcg)	8 weeks	4 to 8 weeks between each dose	6 months
Adults aged 18 to 29 years *	Pfizer/Comirnaty ™ (30mcg) or Moderna/Spikevax™ (50mcg/100mcg)	8 weeks	4 to 8 weeks between each dose	6 months
Adults aged 30 years and older	Pfizer/Comirnaty ™ (30mcg) or Moderna/Spikevax™ (50mcg/100mcg)	8 weeks	4 to 8 weeks between each dose	6 months

* Pfizer/Comirnaty [™] is the recommended mRNA vaccine for the primary series in individuals 5 to 29 years.
 ^ Pfizer/Comirnaty [™] is the only vaccine approved for booster dose in this age group.

NOTE: Moderna/SpikevaxTM 100mcg is offered as a primary series to individuals age 12 and older and as a first booster dose to individuals at increased risk of severe illness.

NOTE: Moderna/Spikevax[™] **50mcg** is offered as a booster dose to individuals age 12 and older who are not at risk of severe illness.

Table 4 Storage and handling of Manitoba COVID-19 approved vaccines

COVID-19 Vaccine Product and Approved Age Indication	Ultra Low Freezer Storage Time (-90°C to -60°C) [‡]	Freezer Storage Time (-25°C to -15°C)	Refrigerated Storage Time Before Dilution or Puncture (+2°C to +8°C)^	Room Temperature Time Before Dilution or Puncture (+8°C to +25°C)	After Dilution or Puncture Time (+2°C to +25°C)
MODERNA					
Moderna (Spikevax™) 6 years of age and older Red Cap	Do not store at this temperature	Until expiry date on vial or identified extended expiry date: <u>https://modernacovid19global.com/ca/health-</u> product-risk-11jan2022-en.pdf	30 days	24 hours No dilution required	Must be used within 24 hours after first puncture
Moderna (Spikevax™) 6 months to 5 years Royal Blue Cap	Do not store at this temperature	Until expiry date on vial or identified extended expiry date. Stored in the original carton to protect from light	30 days	24 hours No dilution required	Must be used within 24 hours after first puncture
Moderna (Spikevax™) Bivalent Blue Cap/Green Label	Do not store at this temperature	Store 9 months at this temperature	30 days	24 hours	24 hours after first puncture
PFIZER					
Pfizer (Comirnaty™) 5-11 years of age Orange Cap	12 months from the date of manufacture	Do not store at this temperature	10 weeks	12 hours prior to dilution	Must be used within 12 hours after dilution
Pfizer (Comirnaty™) 12 years of age and older Purple Cap	Until expiry date printed on label	2 weeks	1 month prior to dilution	2 hours prior to dilution (including thaw time)	Must be used within 6 hours after dilution

Table 4 Storage and handling of Manitoba COVID-19 approved vaccines cont.

Non-mRNA vaccines					
Novavax (Nuvaxovid™) 18 years of age and older	Do not store at this temperature	Do not store at this temperature	Maximum of 9 months, not exceeding the expiry on the vial/label	Should remain stored at 2°C to 8°C before first puncture No dilution required	Must be used within 6 hours after first needle puncture
Blue Cap Janssen	Do not store at this	Until expiry date printed on the vial and	11 months, not	12 hours	After firstpuncture it must be
18 years of age and older	temperature	carton	exceeding the expiry date on the vial/label	No dilution required	used within: • 6 hours if stored between +2°C to +8°C
Blue Cap					3 hours if stored between +9°C to +25°C

^ Length of time to be stored in refrigerator before puncture or dilution until being discarded, unless the manufacturer's expiry date occurs before that time.

Note: Most vaccines are distributed to providers at +2°C to 8°C (refrigerated temperature). Thawed or partially thawed vaccines cannot be refrozen.

- During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light.
- Product should be marked with applicable expiry dates based on time in refrigerator and time after puncture to avoid administration errors. Please refer to the product monographs for all storage and handling guidelines
- Vaccine that is expired or cannot be used if it has reached past the identified timelines are to be removed from storage, deducted from any inventory (if applicable) and returned to MDA for proper disposal following Manitoba's Return Policy and Process https://www.gov.mb.ca/health/publichealth/cdc/div/docs/vbrpp.pdf