

DELEGATED	Delegation of Authority to:			
PROCEDURE	Prescribe a drug			
	Sell a drug			
ORDER TO	Administer Dispense Sell			
AUTHORIZING MD	Dr. Penny Sutcliffe, Medical Officer of Health			
AUTHORIZED	Public Health Sudbury & Districts Public Health Nurses, Registered Nurses, Registered Practical Nurses,			
IMPLEMENTERS	graduates of an accredited Nursing Program in Ontario, post-secondary nursing students, medical			
	students of an accredited Medical Program in Ontario, Midwives, Radiation Therapists, Respiratory			
	Therapists, Physician Assistants, Pharmacists and Paramedics who have completed their Certification of			
	Competence Module.			
	Paramedic students from Collège Boréal and Cambrian College who have received formal didactic and			
	practical education in IM, medication administration, and sharp safety, in a formative and summative			
	evaluation process, following the paramedic NOCP's (National Occupational Competency Profile). This			
	was completed in a supervised setting with certified faculty from Collège Boréal and Cambrian College.			
	Second year RPN students from College Boreal and Cambrian College who have received formal didactic			
	and practical education in IVI, medication administration, and sharp safety, in a formative and			
	summative evaluation process, as per standards of Practice College of Nurses. This was completed in a			
	supervised setting with certified faculty from college Boreal and Cambrian College.			
	Pharmacy Technicians who have completed an approved injection course through the College of			
	Pharmacists and who are working with a regulated health professional who can obtain informed			
	consent and provide patient education may perform the act of injection under this medical directive.			
CLINICAL	Novavax (Nuvaxovid) COVID-19 Vaccine (recombinant protein subunit) for the prevention of coronavirus			
INDICATIONS/	disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in			
PURPOSE	individuals 18 years of age and older in whom contraindications are not present. ¹ The recombinant			
	protein subunit COVID-19 vaccine Novavax Nuvaxovid may be offered to individuals in the authorized			
	age group without contraindications to the vaccine who are not able or willing to receive an mRNA			
	COVID-19 vaccine. ³			
SITUATIONAL	Informed consent.			
CONDITIONS	• Absence of contraindication(s).			
	 In accordance with COVAX_{ON} schedules logic. 			
CONTRAINDICATIONS	Novavax (Nuvaxovid) is contraindicated for use by implementers authorized under this medical directive			
	for the following individuals:			
	 Individuals who have had a severe immediate (≤ 4 hours following vaccination) allergic reaction 			
	(e.g., anaphylaxis) after previous administration of COVID-19 vaccine, or any component of the			
	COVID-19 vaccine, until clinically assessed and advised to receive the vaccine. Referral to a MD or			
	NP is recommended. Refer to the warnings and precautions section below for information on			
	administration of mRNA vaccine to individuals with severe allergies who have been assessed by a			
	MD or NP. ⁵			
	In general, an allergy to a component of a specific vaccine or its container is considered a			
	contraindication. Polysorbate 80 is found in Novavax Nuvaxovid and is a potential allergen that has			
	been associated with allergic reactions in other products. These reactions have occurred rarely and			
	ranged from mild cutaneous reactions to anaphylaxis			

WARNINGS AND	The use of Novavax (Nuvaxovid) COVID-19 Vaccine may be permitted, or must be deferred, for
PRECAUTIONS	individuals in accordance with the following:
	Acute Illness
	Vaccination should be deferred in individuals with symptoms of SARS-CoV-2 infection, or those with
	respiratory symptoms until symptoms are completely resolved to minimize the risk of transmission of
	infection at an immunization clinic and to avoid attributing any complications resulting from infection to
	vaccine related AEEL Symptomatic and computernatic individuals who have been advised to self isolate
	due to COVID 10 expecting cheuld defer vaccingtion until their isolation period is ever
	due to COVID-19 exposure should defer vaccillation until their isolation period is over.
	Individuals displaying current or recent symptoms of chest pain or shortness of breath should defer
	vaccination until they can consult with their health care provider for individual considerations and
	recommendations. Individuals presenting with severe symptoms should be directed to the emergency
	department or instructed to call 9-1-1.
	Hypersensitivity and allergies
	A component of the Novavax Nuvaxovid vaccine that may cause type 1 hypersensitivity reactions is
	Polysorbate 80. Allergic reactions to Polysorbate 80 are rare. Polysorbate 80 is found in products such as
	medical preparations (e.g., vitamin oils, tablets, and anticancer agents) or cosmetics. ³
	For individuals with serious polyethylene glycol (PEG) allergy or previous serious allergic reaction to an
	mRNA vaccine precluding vaccination with mRNA vaccines, Novavax Nuvaxovid may be the preferred
	product for vaccination, based on consultation with an allergist or other appropriate physician or nurse
	practitioner. ³
	Autoimmune conditions and immunodeficiencies
	The safety and efficacy of Novavax (Nuvaxovid) have not been established in these groups.
	Hematologic
	Individuals taking long-term anticoagulation (e.g., warfarin or heparin therapy) are not considered to be
	at higher risk of bleeding complications following immunization and may be safely immunized without
	discontinuation of their anticoagulation therapy (NACI). In individuals with bleeding disorders, the
	condition should be managed prior to immunization to minimize the risk of bleeding. ^{2,3,4}
	Myocarditis and Pericarditis
	Cases of myocarditis and/or pericarditis have been reported following the administration of Novavax
	(Nuvaxovid) including two teenage males who had myocarditis shortly after receiving a second dose of
	vaccine. The clinical course for both was mild and resolved completely. Further studies are underway. ¹
	vaccine. The clinical course for both was third and resolved completely. Further studies are underway.
	Based on advice from Ontario's Vaccine Clinical Advisory Group, the Ministry of Health is issuing a
	preferential recommendation for the use of Pfizer-BioNTech COVID-19 vaccine for individuals 12-29
	verse of age. In the context of adequate Dfizer DioNTech COVID-19 vaccine cumply the profesential
	years of age. In the context of adequate Phzer-DioNiech COVID-19 Vacche Supply, the preferential
	recommendation for the use of Prizer-BioNTech COVID-19 Vaccine for Individuals 12-29 years of age is
	anticipated to reduce the rare number of events of myocarditis/pericarditis in Untario.3
	In situations where there is uncertainty regarding muccarditic diagnosis, discussion should assure with
	an appropriate physician or purce practitioner on potential entions for <i>l</i> relimmunization with the same
	an appropriate physician or nurse practitioner on potential options for (re)immunization with the same
	or alternative COVID-19 vaccine, including a risk-benefit analysis for the individual. The individual
	qualifies for a medical exemption if the physician or nurse practitioner has determined that the
	individual is unable to receive any COVID-19 vaccine. Those with a history compatible with pericarditis

and who either had no cardiac workup or had normal cardiac investigations, can be re(immunized) once they are symptom free and at least 90 days has passed since vaccination.

Some people with confirmed myocarditis and/or pericarditis may choose to receive another dose of vaccine after discussing the risks and benefits with their healthcare provider. Individuals can be revaccinated once they are symptom free and at least 90 days has passed since vaccination. If another dose of vaccine is offered, they should be offered the Pfizer-BioNTech 30 mcg vaccine due to the lower reported rate of myocarditis and/or pericarditis following the Pfizer-BioNTech 30mcg vaccine compared to the Moderna 100 mcg vaccine. Informed consent should include discussion about the unknown risk of recurrence of myocarditis and/or pericarditis following receipt of additional doses of Pfizer-BioNTech COVID-19 vaccine in individuals with a history of confirmed myocarditis and/or pericarditis after a previous dose of mRNA COVID-19 vaccine, as well as the need to seek immediate medical assessment and care should symptoms develop. ³

Adverse Reactions

Very common and common side effects after administration of Novavax (Nuvaxovid) COVID-19 Vaccine are injection site pain, fatigue, headache, muscle pain, chills, joint pain, nausea/vomiting. Older vaccine recipients experienced lower frequencies of events.

Drug: Drug Interactions

Vaccines

COVID 19 vaccines may be given at the same time as, or any time before or after, other vaccines, including live, non-live, adjuvanted, or unadjuvanted vaccines.³

Oral Analgesics and Antipyretics

Prophylactic oral analgesics or antipyretics (e.g., acetaminophen or ibuprofen) should not be routinely used before or at the time of vaccination, but their use is not a contraindication to vaccination. Oral analgesics or antipyretics may be considered for the management of adverse events (e.g., pain or fever, respectively), if they occur after vaccination.²

Drug: Food Interactions

None listed

PHYSICIAN'S

ORDER

Pregnancy and Breastfeeding

The safety and efficacy of Novavax (Nuvaxovid) have not been established in these groups.³ Novavax (Nuvaxovid) COVID-19 Vaccine (recombinant protein subunit)

NACI continues to preferentially recommend the use of mRNA COVID-19 vaccines for most people due to the excellent protection they provide against severe illness and hospitalization and their well-known safety profiles. The Novavax Nuvaxovid vaccine is a new COVID-19 vaccine option for people who have been unable, due to contraindications or are not willing to receive an mRNA COVID-19 vaccine.³

Table 1: Immunocompetent Individuals

Population	Schedule	First	Second Dose	Third dose	l
		Dose			

Individuals 18 years of age and older Pfizer-BioNTech	2 dose primary series	0.5 mL (5 mcg) IM	0.5 mL (30 n following pro At a minimu 8 weeks bet	ncg) IM in acc oduct-specifi m of 21 days ween doses. ³	cordance with the c intervals ^{A,B} – NACI suggests	Recommende d interval 6 months (168 days) after second dose ¹
COVID vaccine is preferred for individuals 12-29 years of age.			Vaccine for first dose	Vaccine for second dose	Recommended and minimum intervals between Doses ^{A,B}	Can be given as a booster dose 10 – 12 weeks after a
Out of province/country ^D			mRNA vaccine ¹ , ³	Recomme nded interval 8- 12 weeks ¹ Novavax	Recommended interval 8 – 12 weeks.	primary series of Astra Zeneca or Pfizer. ^{C,1}
			Astra Zeneca For intervals	Novavax following pr	Recommended interval 8 – 12 weeks ¹ evious SARS-CoV-	
			2 infection s	ee E		
^A Recommended inter	val refers to the Mir	histry of Heal	th recommenda	ation that long	er intervals between	the first and
^B Minimum interval is always advised, shorte travel to provide pallia When requested by th after assessment of ris ^C The Novavax Nuvaxo not able or unwilling t series. NACI continues	the Health Canada a er intervals may be ative care, prior to a se client and with in sk/benefit. ovid COVID-19 vaccio o receive an mRNA s to preferentially re	nust be adhe authorized in considered ir scheduled n formed cons ne may be of vaccine, rega	terval. Although the context of nedical procedu ent minimum ir fered as a boos ardless of which nat booster dose	ter dose to pe ocovide a minute resp intervals may b ter dose to pe ocovID-19 vac es of a mRNA (s directive. ended intervals betwo ology and compassion immunosuppressive t e used between dose ople without contrain cones were received in COVID -19 vaccine sho	een doses are nate care (i.e., reatments, etc.). 1 and dose 2 ndications who are n the primary puld be offered to
individuals without co and unknown about th ^D For those vaccinated	ntraindications to the benefits and pote outside of Ontario	he vaccine. Ir ential risks of or Canada pl	nformed conser f the use of the lease refer to ar	nt should inclu Novavax Nuva nd <u>follow Provi</u>	de a discussion about xovid vaccine as a bo incial Guidance ⁵	what is known oster dose ^{. 3}
E ³ Infection timing re COVID-19 Vaccina	elative to tion	Populatio	n		Suggested interval infection and vacc	between nation
Infection prior to c initiation of primar series	completion or ry vaccination	Individuals older who moderatel immunocc no previou multisyste syndrome	s 5 years of ag are not consid y to severely ompromised a us history of m inflammato in children (N	e and dered nd with ory 1IS-C)	Receive the vaccine symptom onset or asymptomatic	e 8 weeks after positive test if

		Individuals 5 years of age and older who are moderately to severely immunocompromised and with no previous history of MIS-C	Receive the dose 4- 8 weeks after symptom onset or positive test if asymptomatic	
		Individuals 5 years of age and older with a previous history of MIS-C regardless of immunocompromised status	Receive the vaccine dose when clinical recovery has been achieved or > 90 days since the onset of MIS-C whichever is longer	
	Infection after primary series but before first booster dose and/or second booster dose	Individuals currently eligible for booster dose(s)	3 months after symptom onset or positive test if asymptomatic. If they are 12 – 17 years old, as per the recommended interval for the booster dose, at least 6 months (168 days) should have passed after completing the primary series before receiving the booster dose	
	 A previous infection with SARS-COV-2 is defined as: Confirmed by a molecular (e.g PCR or rapid antigen test) or Symptomatic AND a household contact of a confirmed COVID-19 case. 			
	Immunocompromised Individuals There is currently no data to support the efficacy and safety of Novavax (Nuvaxovid) in individuals who are immunocompromised due to disease or treatment. ³			
	Interruption of a vaccine series resulting in a greater than suggested interval between doses does not require restarting the series since a delay between doses does not result in reduced protection. ²			
	Reconstitution: There is no diluent. The Novavax Nuvaxovid COVID-19 vaccine must not be reconstituted, mixed with other medicinal products, or diluted. ³			
	gently in an upright position for 10) seconds. Do not shake . ³		
	A 15-minute observation period is	recommended ²		
DOSE FROM A VIAL	 A vial of Novavax (Nuvaxovid) cont There will be no pooling of d 	tains 10 doses of 0.5 mL. oses.		
VACCINE STORAGE, STABILITY AND DISPOSAL ^{1, 23}	Storage Prior to Use: The unopened NUVAXOVID multidose vials are stored refrigerated between 2° to 8°C (36° to 46°F) for a maximum of 9 months. Store in the original carton to protect from light.			
	Storage of Punctured vials Chemical and physical in-use stabi administration for 6 hours at 2°C t	lity has been demonstrated from o 25°C.	the time of first needle puncture to	

	NUVAXOVID does not contain a preservative. Store the opened vial between 2°C to 25°C for up to 6 hours
TRANSPORTATION OF VIALS	Refer to the Ministry of Health's COVID-19: Vaccine Storage and Handling Guidance (version 7.4 – March 24, 2022, or most current) ⁴ for guidance on the onward transportation of the COVID-19 vaccines beyond the initial point of delivery. This section applies to the distribution of unopened vials of COVID-19 vaccine only. Refer to the transportation of diluted vaccine section below for more information on the transportation of vaccine from opened / punctured vials.
TRANSDORTATION	Pefer to Optaria Ministry of Health, COVID 10: Vaccine Storage and Handling Cuidance 4
OF VACCINE	The vaccines should be transported prior to puncture, but in the event that transport of a punctured vial or pre-drawn syringe is required to provide access to vaccination or prevent wastage the following should be followed/considered:
	 Adherence to the must use by date/timing of the product following first puncture of a vial: Novavax 6 hours post first puncture stored between +2oC to +25oC A pre-filled syringe is stable for 6 hours between 2°C and 25°C
	 The number of times an opened vial or pre-drawn syringe is transported should be minimized to prevent risk of product microbial contamination and adherence to the must use by date/timing A barrier of bubble wrap or corrugated cardboard (at least 1 inch) may be utilized as a barrier between ice packs and the container with the vial or pre-drawn syringes.⁴
	 The vial or syringe(s) should be packed to cushion it and to protect it from agitation
	 The cold chain has been properly monitored and documented
	 The vial or syringe(s) should be packed appropriately in a conditioned cooler (transport container) at +2oC to +8oC and the temperature monitored during transport
	The vial or pre-drawn syringes should be labelled with the name and dosage of vaccine, exact beyond- use date, and time (i.e.: 6 hours from when the vial was first punctured), lot number and initials of preparer, facility name and phone number. Transport time is a maximum of 6 hours cumulative.
VACCINE PRESENTATION	Colourless to slightly yellow, clear to mildly opalescent suspension free of particles provided in a clear multidose glass vial with a rubber stopper and a blue flip-off top. Each multidose vial contains 10 doses each of 0.5 mL.
VACCINE	Medicinal ingredients: 5 micrograms of purified SARS-CoV-2 recombinant spike protein as the active
COMPONENTS	substance. ²
	Non-medicinal ingredients:
	Disodium hydrogen phosphate heptahydrate
	Sodium dihydrogen phosphate monohydrate
	Sodium chloride
	Polysorbate 80
	Sodium hydroxide
	Hydrochloric acid
	Water for injection
	The Matrix-M adjuvant contains cholesterol, phosphatidylcholine, potassium dihydrogen phosphate, disodium hydrogen phosphate dihydrate, sodium chloride, and potassium chloride. ²
	*Polyethylene glycol (PEG) is found in bowel preparation products for colonoscopy, laxatives, cough syrup, cosmetics, skin care products, and some food and drinks, however, this list is not exhaustive. ²
	The vial stopper does not contain natural rubber latex. ²

REFERENCES	1. NACI Recommendations on the use of Novavax (NUVAXOVID) COVID-19) vaccine. February 17,
	2022.
	2. Nuvaxovid Product Monograph. February 17, 2022.
	3. COVID-19 Vaccine Administration. Version 5.0. April 27, 2022.
	4. COVID-19: Vaccine Storage and Handling Guidance. Version 7.4. March 24, 2022.
	5. COVID-19 Guidance for Individuals Vaccinated Outside of Ontario/Canada. V 4.0 March 24, 2022.
	6. COVID-19 Vaccination Recommendations for Special Populations. V 9.1 December 31, 2021.
SIGNATURE AND	
DATE	
	Date: May 2, 2022

R: April 2022