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(Health Care Agency Name)

## MEDICAL DIRECTIVE: Pediatric Formulation of the Comirnaty COVID-19 Vaccine<sup>®</sup> (Pediatric Pfizer-BioNTech, 10 mcg)

Original Date: \_\_\_\_\_

Next Review Date: \_\_\_\_\_

Contact Officer: \_\_\_\_\_  
(Agency Contact Officer)

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### Order/Delegated Procedure

Administration of the injectable pediatric formulation of the Comirnaty<sup>®</sup> COVID-19 vaccine (Pfizer-BioNTech), hereinafter referred to as Pediatric Pfizer-BioNTech COVID-19 vaccine (10mcg) to children 5-11 years of age.<sup>1,9</sup>

### Recipient Clients

- Authorized for use in those 5 years to <12 years of age as a two dose primary series of 10 mcg each.<sup>5</sup>
- Authorized for use in those 5 years to <12 years of age as a booster dose of 10mcg.<sup>5</sup>
- NACI continues to recommend that a bivalent Omicron-containing mRNA COVID-19 vaccine booster is the preferred product for those 5 years and older who are recommended for a booster dose.<sup>8</sup>
- In alignment with NACI's recommendation, the Ministry of Health has made a preferential recommendation for the use of Pfizer-BioNTech COVID-19 vaccine for individuals 5-29 years of age. This recommendation stems from an observed increase in the number of reports of myocarditis/pericarditis following vaccination with Moderna relative to Pfizer-BioNTech in adolescents and young adults, particularly among males, in Ontario, Canada, and internationally.<sup>5</sup>
- Children who receive the Pediatric Pfizer-BioNTech COVID-19 vaccine (10 mcg) for their first dose and who have turned 12 years of age by the time the second dose is due may receive the 30 mcg Pfizer-BioNTech COVID-19 vaccine that is authorized for individuals ages 12 and older to complete their primary series. If the second dose of 10 mcg is given, the dose should still be considered valid and the series complete.<sup>8</sup>
- For children who have received a Moderna (25 mcg) dose and turn 6 prior to completing their primary series are recommended to receive Moderna (50 mcg) to complete their primary series. If the primary series was completed with Moderna (25

mcg) or with Pfizer-BioNTech (10 mcg), the dose should be considered valid and the series complete.<sup>11</sup>

## Authorized Implementers

Health care providers of \_\_\_\_\_ are described as: \_\_\_\_\_  
(Health Care Agency) (Agency Health Care Provider)

and who have completed the required orientation, including a review of related policies, educations training at clinics and observation by the \_\_\_\_\_.  
(Agency Designate)

## Vaccine Administration Errors and Deviations

Any deviations in this medical directive shall be documented by the Authorized Implementer and the Clinic Lead Nurse after informing the Contact officer or designate by phone. The Contact officer will notify the Authorizing Physician\*.

\*Note: Common errors and deviations in COVID-19 vaccine administration that are described in the Government of Canada [Planning guidance for immunization clinics for COVID-19 vaccines: Managing vaccine administration errors or deviations](#) (Last Date Modified: November 17, 2022 or as current)<sup>10</sup> do not require notification of the Authorizing Physician, except in all cases where a vaccine is administered to a recipient in whom the vaccine is contraindicated or not indicated. For example, vaccine administered to an individual under the age for which the vaccine is authorized in Canada must be reported to the Authorizing Physician, whereas vaccination with a partial dose of vaccine in error to a person for whom the full vaccine dose is indicated that is addressed according to the Provincial guidance does NOT require notification of the Authorizing Physician.

## Indications

Pediatric Pfizer-BioNTech COVID-19 vaccine (10 mcg) is indicated for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe, acute respiratory syndrome coronavirus 2 (SARS- CoV-2) in children 5-11 years of age without contraindications to the vaccine.<sup>1, 9</sup>

## Contraindications

Clients are NOT ELIGIBLE for Pediatric Pfizer-BioNTech COVID-19 vaccine (10 mcg) under this medical directive if there is a risk of serious adverse reaction identified during their health assessment:

- A history of anaphylactic reaction to a previous dose of the Pediatric Pfizer-BioNTech COVID-19 vaccine<sup>1</sup>.

- A history of proven immediate or anaphylactic hypersensitivity to any component of the Pediatric Pfizer-BioNTech COVID-19 vaccine or its packaging<sup>1</sup>. Components of the Pediatric Pfizer-BioNTech COVID-19 vaccine (10 mcg) are listed in Appendix A.

**Individuals with known allergies to components of the vaccines may speak with an appropriate physician or nurse practitioner (NP) for evaluation.** This assessment will enable the development of a vaccination care plan which may include receiving the vaccine under the supervision of your physician.<sup>8</sup>

Documentation of the discussion with the physician/NP may be provided to the clinic and can include a vaccination care plan and parameters the clinic should meet to provide safe vaccine administration.<sup>8</sup>

## Precautions

- Individuals 6 months and older, may receive a COVID-19 vaccine simultaneously with (i.e., same day), or at any time before or after non-COVID-19 vaccines (including live and non-live vaccines). For further information and recommendations surrounding co-administration of COVID-19 vaccines with other non-COVID-19 vaccines refer to the Ministry of Health COVID-19 Vaccine Guidance (Version 4.0, or as current).<sup>8</sup>
- As a precautionary measure until more information is available, further doses of mRNA COVID-19 vaccines should be deferred among individuals who have experienced myocarditis (with or without pericarditis) within the 6 weeks following a previous dose of an mRNA COVID-19 vaccine in most circumstances. This includes any person who had an abnormal cardiac investigation including ECG, elevated troponins, echocardiogram or cardiac MRI after a dose of an mRNA COVID-19 vaccine. For further information on subsequent immunization in individuals who experienced myocarditis and/or pericarditis within 6 weeks of receiving an mRNA COVID-19 vaccine refer to the Government of Canada COVID-19 Vaccine: Canadian Immunization Guide (Last Date Modified: December 9, 2022 or as current).<sup>5</sup>
- Individuals should seek medical attention if they develop symptoms of Bell's palsy following receipt of mRNA COVID-19 vaccines. Very rare cases of Bell's palsy (typically temporary weakness or paralysis on one side of the face) have been reported following vaccination with COVID-19 mRNA vaccines (Pfizer-BioNTech or Moderna) in Canada and internationally among individuals aged 12 years and older. Refer to the Ministry of Health [COVID-19 Vaccine Guidance](#) (Version 4.0, or as current) guidance document for further information and possible symptoms.<sup>8</sup>
- Individuals with a proven severe allergic reaction (e.g., anaphylaxis) to injectable therapy not related to a component of the COVID-19 vaccines (e.g., other intramuscular, intravenous or subcutaneous vaccines or therapies) may be routinely vaccinated with COVID-19 vaccines with a 30-minute post-vaccination observation period.<sup>5</sup>

- Individuals with a suspected but unproven allergy to a vaccine component (e.g., PEG) may be routinely vaccinated with COVID-19 vaccines with a 30-minute post-vaccination observation period.<sup>5</sup>
- Individuals with a history of allergy not related to a component of authorized COVID-19 vaccines or other injectable therapy (e.g., foods, oral drugs, insect venom or environmental allergens) can receive COVID-19 vaccines without any special precautions. Individuals should be observed for a minimum of 15 minutes following vaccination.<sup>5</sup>
- In individuals with bleeding disorders, the condition should be managed prior to immunization to minimize the risk of bleeding. Individuals receiving long-term anticoagulation are not considered to be at higher risk of bleeding complications following immunization and may be safely immunized without discontinuation of their anticoagulation therapy.<sup>5</sup>
- Symptoms, either current or displayed recently, of chest pain or shortness of breath:
  - Vaccine should not be offered to persons displaying current or recent history of chest pain or shortness of breath.
  - Persons displaying current or recent history of chest pain or shortness of breath should consult with a health care provider prior to vaccination and/or if symptoms are severe, should be directed to the emergency department or instructed to call 911.<sup>8</sup>

Individuals with a history of fainting/dizziness or fear of injections/needle can safely receive the COVID-19 vaccine. Considerations may include:

- Immunize while seated to reduce injuries due to fainting.
- If considered high-risk, immunize while laying down.
- These individuals may bring a support person.<sup>8</sup>
- Vaccination should be deferred in symptomatic individuals with confirmed or suspected SARS-CoV-2 infection, or those with respiratory symptoms, to minimize the risk of COVID-19 transmission at an immunization clinic/venue. If any person is identified with symptoms on arrival at the venue, they should not be immunized and should be instructed to seek medical and public health advice and follow current local public health measures.<sup>5</sup>
- As a precautionary measure and in light of the need to be able to monitor for COVID-19 vaccine adverse events without potential confounding from symptoms of COVID-19 or other co-existing illnesses, people should wait until all symptoms of an acute illness are resolved before vaccinating with a COVID-19 vaccine.<sup>5</sup>
- The Ontario Ministry of Health, in alignment with NACI, continues to recommend that COVID-19 vaccines should be offered to individuals with previous SARS-CoV-2 infection without contraindications. For additional information and suggested intervals between

previous SARS-CoV-2 infection and COVID-19 vaccination please refer to the Ministry of Health [COVID-19 Vaccine Guidance](#) document (Version 4.0 or as current).<sup>8</sup>

- For children with a previous history of MIS-C or MIS-A, vaccination should be postponed until clinical recovery has been achieved or until it has been  $\geq 90$  days since diagnosis, whichever is longer.<sup>5</sup>
- Individuals 6 months and older, may receive a COVID-19 vaccine simultaneously with (i.e., same day), or at any time before or after non-COVID-19 vaccines (including live and non-live vaccines). For further information and recommendations surrounding co-administration of COVID-19 vaccines with other non-COVID-19 vaccines refer to the Ministry of Health [COVID-19 Vaccine Guidance](#) (Version 4.0, or as current).<sup>8</sup>

### **Additional Special Considerations**

- It is recommended that COVID-19 vaccines should not be given concurrently with anti-SARS-CoV-2 monoclonal antibodies. Administration of these products concurrently may result in decreased effectiveness of the COVID-19 vaccine and/or anti-SARS-CoV-2 monoclonal antibodies.<sup>5</sup>
- After reviewing the published literature and evidence sought from manufacturers of COVID-19 vaccines, NACI approved changes to the guidance to indicate that vaccination with COVID-19 vaccines may take place at any time before, after or at the same visit as the TST or IGRA test.<sup>5</sup>
- For the most current information related to specific populations (e.g. [Persons with an autoimmune condition](#), [Immunocompromised persons](#), [Travellers](#), [Persons new to Canada](#)), please refer to the Government of Canada COVID-19 vaccine: Canadian Immunization Guide (last date modified: 2022-12-09 or as current).<sup>2</sup> For guidance and booster dose recommendations for pregnant and breastfeeding individuals refer to the Ministry of Health [COVID-19 Vaccine Guidance](#) document (Version 4.0 or as current).<sup>8</sup>

### **Guidelines for Implementing the Order/Delegated Procedure**

Nurses and nursing students are expected to prepare and administer vaccine(s) to clients in a safe, effective, and ethical manner, and to be accountable for their actions. Nurses and nursing students are expected to meet the CNO's [Medication Practice Standard](#) by performing all the administration and verification steps to minimize the chance of error.<sup>2</sup>

Nurses and nursing students are expected to consult with their \_\_\_\_\_  
(Agency Designate)

if unable to perform their nursing duties in a safe and effective manner.

Responsibilities of the nurse and nursing student who implement the intervention include the following:

- Clarify that informed consent has been obtained
- Assess the client to determine whether the specific client conditions and any situational circumstances identified in the directive have been met

- Know the risks to the client of implementing the Order/Delegated Procedure
- Possess the knowledge, skills and judgement required to implement the directive safely
- Know the predictability of the outcomes of the intervention
- Determine whether management of the possible outcomes is within their practice; if so whether they are competent to provide management of outcomes and if not, whether the appropriate resources are available to assist as required.

Administration of vaccine must be in accordance with the manufacturers' product information monographs and the NACI's Recommendations on the use of COVID-19 vaccine(s) and the Ministry of Health Recommendations. <sup>1,8,9</sup>

At all clinics where immunizing agents are administered, the \_\_\_\_\_ will be available for consultation. *(Agency Designate)*

## **Consent**

### **Obtaining Consent**

Appropriate informed consent must be obtained as per the *Guidelines for Implementing the Order/Delegated Procedure* and the client must NOT have any contraindications.

### **Informed Consent**

To obtain informed consent, the nurse and/or nursing student must ensure:

- The purpose of the immunization, desired outcome, risks, and benefits are reviewed.
- The client or substitute decision maker (parent/legal guardian) has read and understood the information on the appropriate COVID-19 Vaccine Information Sheet(s). If the client or substitute decision maker cannot read the sheet, it should be read or explained to them. The nurse must ensure the client has no contraindications to the vaccine as specified in the "Contraindications" section of this Medical Directive and query regarding current health (e.g., immunosuppression) and precautions.
- The client or substitute decision maker has had the opportunity to ask questions about the vaccine and had these questions answered to their satisfaction.
- The client or substitute decision maker has provided informed written or verbal consent to the nurse administering vaccine.

### **Capacity to provide consent**

A client can give consent if they understand the information that is being presented to them and appreciate the foreseeable consequences of their decision or lack of decision.

When in doubt about informed consent or a medical condition of the client, do not administer the vaccine and consult with the \_\_\_\_\_.  
(Agency Designate)

## Pediatric Pfizer-BioNTech COVID-19 Vaccine

Dose and Schedule for the Pediatric Pfizer-BioNTech COVID-19 Vaccine<sup>1</sup>:

Age Range	Vaccination	Dose	Presentation	Dose Volume	Intervals <sup>14</sup>
5 to 11 years of age	Two dose primary series	10 mcg	orange cap and orange label border	0.2 mL	<ul style="list-style-type: none"><li>• <u>Minimal</u>: 19 days</li><li>• <u>Authorized</u>: 21 days</li><li>• <u>Recommended</u>: at least 8 weeks</li></ul>

### COVID-19 Booster Dose Recommendations

For population-specific booster dose recommendations including dosing, intervals and recommended vaccine, refer to the Ministry of Health document [COVID-19 Vaccine Guidance](#) document (Version 4.0, or as current).<sup>8</sup>

### 3-Dose Primary Series for Moderately to Severely Immunocompromised

For 3-dose primary series, refer to the Ministry of Health document [COVID-19 Vaccine Guidance](#) document (Version 4.0, or as current).<sup>8</sup> For additional information on the immunization of immunocompromised persons, the Government of Canada COVID-19 vaccine: Canadian Immunization Guide (Last Date Modified 2022-12-09 or as current).<sup>5</sup>

### Preparation and Administration of the Pediatric Pfizer-BioNTech COVID-19 Vaccine (10 mcg)

For injection technique, follow the *Injection Technique Policy and Procedure* of \_\_\_\_\_ in conjunction with the following resources below.  
(Agency Name)

For more information on the administration Pfizer-BioNTech COVID-19 vaccine in children 5-11 years old, please refer to the NACI document: [Recommendations on the use of the Pfizer-BioNTech COVID-19 vaccine \(10mcg\) in children 5-11 years of age](#), (Date published: November 19, 2021 or as current), and the Ministry of Health document [COVID-19 Vaccine Guidance](#) document (Version 4.0, or as current)<sup>6,8</sup>.

For step-by-step directions for administration, preparation, dosage, forms, strengths, composition and packaging, refer to the [Pfizer-BioNTech COVID-19 Vaccine Product Monograph](#) (Date of Revision: September 9, 2022 or as current)<sup>1</sup>.

### Storage Requirements and Additional Doses from Vaccine Vials

For detailed information on storage requirements, refer to the Ministry of Health [General COVID-19: Vaccine Storage and Handling Guidance](#) document (Version 1.0 July 22, 2022, or

as current) document.<sup>7</sup>

## Documentation and Communication

Documentation of administered doses into the COVax database post vaccination should be followed in conjunction with the \_\_\_\_\_ documentation  
(Agency Name)

procedure and the *College of Nurses of Ontario's Documentation Practice Standard*.<sup>4</sup>

## Adverse Reactions

### Non-Serious Adverse reactions

The following adverse events have been reported as being common, very common or uncommon after either dose of the Pfizer-BioNTech COVID-19 vaccine<sup>1</sup>:

Very common (may affect more than 1 in 10 people)

- injection site pain, swelling
- tiredness
- headache
- muscle pain
- chills
- joint pain
- fever
- diarrhea

Common (may affect more than 1 in 100 and up to 1 in 10 people)

- injection site redness
- nausea
- vomiting

Uncommon (may affect more than 1 in 1000 and up to 1 in 100 people)

- enlarged lymph nodes
- feeling unwell
- arm pain
- feeling weak or lack of energy/sleepy
- decreased appetite
- excessive sweating
- night sweats

### Post-Vaccination Observation

Recommendations for the post-vaccination observation period for other vaccines during the pandemic, such as for influenza vaccine, should continue to be followed. Therefore, advise clients to remain in the post-vaccination waiting area for the length of time as recommended in the Ministry of Health [COVID-19 Vaccine Guidance](#) document (Version

4.0 or as current).<sup>8</sup>

**Serious Adverse Reactions**

In situations of suspected hypersensitivity or non-anaphylactic allergy to COVID-19 vaccine components, the \_\_\_\_\_ shall be consulted prior to  
*(Agency Designate)*

vaccination, to determine the appropriateness of the vaccination, the option of vaccination in a controlled setting and/or the use of an extended post-vaccination observation period.

As per section 38 of the *Health Protection and Promotion Act*<sup>3</sup>, those administering vaccines should ensure that the vaccine recipients are advised to immediately call their doctor/nurse practitioner or go to the nearest hospital emergency department if they develop a reaction that could be related to the vaccine<sup>3</sup>. Specifically, the client should be monitored for:

- Hives, itchy skin<sup>8</sup>
- Swelling of the face, tongue, mouth or throat<sup>8</sup>
- Altered level of consciousness/serious drowsiness<sup>8</sup>
- Trouble breathing, hoarseness or wheezing<sup>8</sup>
- High fever (over 40°C or 104°F)<sup>8</sup>
- Convulsions (seizures)<sup>8</sup>
- Other serious reactions (e.g., "pins and needles" or numbness)<sup>8</sup>

If a reaction as described above occurs while at a \_\_\_\_\_ clinic,  
*(Health Care Agency)*  
refer to the *Medical Directive for Anaphylaxis Management*.

Adverse events/reactions must be documented, reported to the Renfrew County and District Health Unit as per the \_\_\_\_\_ procedure on *Reporting Adverse Events Following Immunization*.  
*(Agency Name)*

**Approving \_\_\_\_\_(s)/Authorizer(s):**  
*(Agency Designate)*

<b>NAME:</b> _____	<b>DATE:</b>
<b>SIGNATURE:</b>	_____

## Appendix A – Components of the Pediatric Pfizer-BioNTech COVID-19 Vaccine and its Packaging

For a comprehensive list of components in the vaccine and packaging, please consult the product leaflet or information contained within the product monograph available through Health Canada's Drug Product Database.<sup>1</sup>

Potential non-medicinal ingredients in the vaccine or its container known to cause type 1 hypersensitivity reactions ranging from mild cutaneous reactions to anaphylaxis includes the following (which may not be a complete list):

- polyethylene glycol (PEG)<sup>8,9</sup>
- polysorbate 80<sup>8</sup>
- tromethamine (trometamol or Tris)<sup>8,9</sup>

The full list of non-medical ingredients is as follows:<sup>1</sup>

- ALC-0315 = ((4-hydroxybutyl) azanediyl)bis (hexane-6,1-diyl)bis(2-hexyldecanoate)
- ALC-0159 = 2-[(polyethylene glycol)-2000]- N,N-ditetradecylacetamide
- 1,2-distearoyl-sn-glycero-3-phosphocholine
- Cholesterol
- Sodium chloride
- Sucrose
- Tromethamine
- Tromethamine Hydrochloride
- Water for injection

Pfizer-BioNTech COVID-19 Vaccine does not contain any preservatives. The glass vials have a stopper which does not contain natural rubber latex.<sup>1</sup>

## References

1. Product Monograph – Pfizer-BioNTech COVID-19 Vaccine (Date of Revision: September 9, 2022 or as current): <https://covid-vaccine.canada.ca/info/pdf/pfizer-biontech-covid-19-vaccine-pm1-en.pdf>
2. College of Nurses of Ontario's *Medication Practice Standard* (Last Updated January 2019 or as current): [https://www.cno.org/globalassets/docs/prac/41007\\_medication.pdf](https://www.cno.org/globalassets/docs/prac/41007_medication.pdf)
3. Health Protection and Promotion Act: <https://www.ontario.ca/laws/statute/90h07#BK45>
4. College of Nurses of Ontario. Documentation, revised 2008. Toronto, ON: 2019. Available from: [http://www.cno.org/globalassets/docs/prac/41001\\_documentation.pdf](http://www.cno.org/globalassets/docs/prac/41001_documentation.pdf)
5. Government of Canada COVID-19 vaccine: Canadian Immunization Guide (Last Date Modified: August 29, 2022 or as current): <https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci/summary-updates-canadian-immunization-guide-august-29-2022-covid-19-vaccines.html>
6. NACI's Recommendations on the use of the first booster dose of the Pfizer-BioNTech COVID-19 vaccine in children 5-11 years of age (Published August 19, 2022): <https://www.canada.ca/content/dam/phac-aspc/documents/services/immunization/national-advisory-committee-on-immunization-naci/recommendations-use-covid-19-vaccines/pfizer-biontech-10-mcg-children-5-11-years-age/pfizer-biontech-10-mcg-children-5-11-years-age.pdf>
7. Ministry of Health Document: General COVID-19: Vaccine Storage and Handling Guidance, Version 1 July 22,2022: [https://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/vaccine/vaccine\\_storage\\_handling\\_pfizer\\_moderna.pdf](https://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/vaccine/vaccine_storage_handling_pfizer_moderna.pdf)
8. Ministry of Health COVID-19 Vaccine Guidance, Version 4.0 December 20, 2022: [https://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/vaccine/COVID-19\\_vaccine\\_administration.pdf](https://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/vaccine/COVID-19_vaccine_administration.pdf)
9. NACI's Recommendations on the use of the Pfizer-BioNTech COVID-19 vaccine (10mcg) in children 5-11 years of age (Published November 19<sup>th</sup>, 2021): <https://www.canada.ca/content/dam/phac-aspc/documents/services/immunization/national-advisory-committee-on-immunization-naci/recommendations-use-covid-19-vaccines/pfizer-biontech-10-mcg-children-5-11-years-age/pfizer-biontech-10-mcg-children-5-11-years-age.pdf>
10. Government of Canada, Planning guidance for immunization clinics for COVID-19 vaccines: Managing vaccine administration errors or deviations. (Last Date Modified: November 17, 2022 or as current): <https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/guidance-documents/quick-reference-guide-covid-19-vaccines/managing-administration-errors-deviations.html>

11. NACI's Recommendations on the use of Moderna Spikevax COVID-19 vaccine in children 6 months to 5 years of age. July 14, 2022:

<https://www.canada.ca/content/dam/phac-aspc/documents/services/immunization/national-advisory-committee-on-immunization-naci/recommendations-use-moderna-spikevax-covid-19-vaccine-children-6-months-5-years.pdf>