

Vaccine Medical Directive and Delegation Moderna COVID-19 Vaccine

| | Delegation of Authority to | | |
|----------------------------|--|--|--|
| DELEGATED | Delegation of Authority to: | | |
| PROCEDURE | Prescribe a drug | | |
| | Sell a drug | | |
| ORDER TO | Administer Dispense Sell | | |
| AUTHORIZING MD | | | |
| AUTHORIZED IMPLEMENTERS | Public Health Sudbury & Districts Public Health Nurses, Registered Nurses, Registered Practical Nurses, 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 Collège Boréal who have received formal didactic and practical education in IM, 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 Collège Boréal 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 | Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 Vaccine) for the prevention | | |
| INDICATIONS/ | of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory | | |
| PURPOSE | syndrome coronavirus 2 (SARS-CoV-2) in individuals 18 years of age and older in whom contraindications are not present. | | |
| SITUATIONAL | Informed consent | | |
| CONDITIONS | Absence of contraindication(s) | | |
| | • The use of Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 Vaccine) is | | |
| | permitted under a Health Canada interim authorization delivered in | | |
| | accordance with section 5 of the COVID-19 Interim order (IO). The interim | | |
| | order is available <u>here</u> . The product monograph is available <u>here</u> . | | |
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| CONTRAINDICATIONS | Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 Vaccine) is contraindicated for use by implementers authorized under this medical directive for the following individuals ^{2,3} : | | | | |
|-------------------|---|--|--|--|--|
| | 1. Individuals with a history of anaphylaxis after previous administration of the vaccine. | | | | |
| | | | | | |
| | 2. Individuals who have ever had an anaphylactic reaction to any component of | | | | |
| | an mRNA vaccine or its packaging. Refer to the vaccine component section for | | | | |
| | product specific component information. | | | | |
| | 3. Individuals who are under the age of 18 years . | | | | |
| PRESCRIBED | Moderna COVID-19 Vaccine is permitted for the following individuals under the | | | | |
| CIRCUMSTANCES | prescribed circumstances described below: | | | | |
| | 1. Individuals who have had an allergic reaction within 4 hours of receiving a previous | | | | |
| | dose of an mRNA COVID-19, or any components of the mRNA COVID-19 vaccine | | | | |
| | (including polyethylene glycol [PEG]), tromethamine, or polysorbate, only if they | | | | |
| | have been evaluated by an allergist/immunologist and it is determined that the | | | | |
| | person can safely receive the vaccine, and the individual provides documentation as | | | | |
| | required ⁵ (or as current reference) | | | | |
| | | | | | |
| | 2. Individuals who are breastfeeding or pregnant should be encouraged to be | | | | |
| | vaccinated following the same recommendations as the general population. These | | | | |
| | | | | | |
| | individuals should be informed of the latest evidence on the safety of mRNA COVID | | | | |
| | 19 vaccines in order to make informed decisions. ⁸ | | | | |
| | | | | | |
| | 3. Individuals with autoimmune conditions and immunocompromised persons | | | | |
| | should follow the same recommendations for COVID vaccination as for the | | | | |
| | general adult population. They should be informed of the latest evidence on | | | | |
| | the safety of mRNA COVID 19 vaccines in order to make decisions. Individuals | | | | |
| | who are immunosuppressed from disease or treatment should be informed | | | | |
| | that they may have a reduced immune response to any authorized COVID 19 | | | | |
| | vaccine series. ⁸ | | | | |
| | | | | | |
| | 4. As a precautionary measure, the second dose in the mRNA COVID-19 | | | | |
| | vaccination series should be deferred in individuals who experience myocarditis | | | | |
| | or pericarditis following the first dose of an mRNA COVID-19 vaccine until more | | | | |
| | information is available. Individuals that have a history of myocarditis or | | | | |
| | pericarditis should consult with their primary care provider prior to | | | | |
| | immunization and be approved. ^(1, 2) | | | | |
| WARNINGS/ | Caution is advised in the administration of intramuscular injections in people with | | | | |
| PRECAUTIONS | bleeding disorders. Refer to the Injection Techniques Certification Module for | | | | |
| TRECAUTIONS | further information. | | | | |
| | | | | | |
| | Cardiovascular: Myocarditis and Poricarditis | | | | |
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| | Dara appear of my apparditio and /or participatitic fallowing a participation with months (0) (D. 40) | | | | |
| | Rare cases of myocarditis and/or pericarditis following vaccination with mRNA COVID-19 | | | | |
| | vaccine have been reported in Canada and internationally. These cases occurred most | | | | |
| | frequently in adolescents and younger adults under 30 years of age, more frequently in | | | | |
| | males compared to females, and more commonly after the second dose. When deciding | | | | |
| | whether to administer an mRNA vaccine to an individual with a history of myocarditis or | | | | |
| | pericarditis, consider the individual's clinical circumstances. Individuals who experience | | | | |
| | any of the following symptoms within several days of vaccination should seek medical | | | | |

attention immediately: chest pain, shortness of breath, feelings of a fast-beating, fluttering or pounding heart. ^{1,2}

Allergic Reactions

For individuals who have had an allergic reaction within 4 hours and/or anaphylaxis that occurred with a vaccine or injectable medication that does not contain a component or cross-reacting component of the mRNA COVID-19 vaccines, the mRNA COVID-19 vaccine can be given with an extended observation post-vaccination of 30 minutes in the clinic.

Persons with allergy issues like allergic rhinitis, asthma and eczema can receive the vaccine with an extended observation post-vaccination of 15-30 minutes in the clinic.

Adverse Reactions

The most commonly reported adverse drug reactions after administration of Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 Vaccine) are injection site pain, fatigue, headache, muscle pain and stiffness, chills, nausea or vomiting, joint pain and fever. Uncommon reactions include swollen lymph nodes. Reactions are generally mild or moderate in intensity and of limited duration. Some adverse events, including fever, are more frequent after the second dose of vaccine.^{1,2}

Drug: Drug Interactions

Vaccines

COVID-19 vaccines should not be given simultaneously with other live or inactivated vaccines at this time, unless other vaccines are required for post-exposure prophylaxis.²

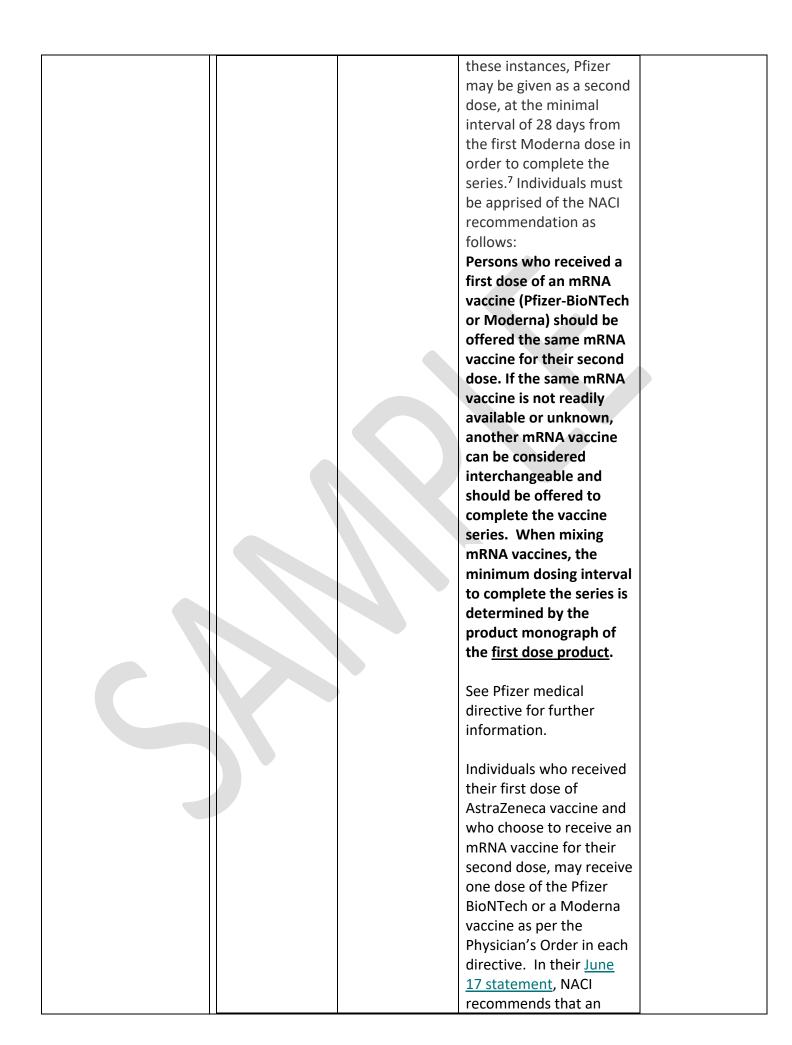
In the absence of evidence, it would be prudent to wait for a period of at least **28 days after each vaccine dose of an mRNA COVID-19 vaccine** before the administration of another vaccine (except in the case where another vaccine is required for post-exposure prophylaxis) due to the elicitation of an inflammatory cytokine response.²

It would be prudent to wait for a period of at least **14 days after the** administration of another vaccine before administrating a COVID-19 vaccine.²

Blood Products and Human Immunoglobulin

COVID-19 vaccines should not be given simultaneously with monoclonal antibodies or convalescent plasma.² In the post-exposure setting, expert clinical opinion should be sought on a case-by-case basis when deciding whether anti-SARS-CoV-2 monoclonal antibodies would be appropriate to administer after receipt of COVID-

| | 1 | | | | | |
|-------------------|--|----------------------|--|-----------------|--|--|
| | 19 vaccine, taking into consideration the risk of exposure and the risk of severe COVID-19 disease in the individual. ² | | | | | |
| | | | | | | |
| | To date, there is also insufficient evidence on the receipt of both a COVID-19 vaccine and any monoclonal antibodies or convalescent plasma for treatment or | | | | | |
| | | | | | | |
| | prevention of non-COVID-19 disease. Therefore, timing of administration and | | | | | |
| | potential interference between these two products are currently unknown and | | | | | |
| | expert clinical opinion should be sought on a case-by-case basis. ² | | | | | |
| | Oral Analgesics and Antipyretics | | | | | |
| | NACI recommends that 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 | | | | | |
| | - | | d in clinical trials of COVID-1 | | | |
| | | | er vaccination. There is curr | | | |
| | | | f oral analgesics for the prev | ention of | | |
| | immunization injed | ction pain or syster | nic reactions. ² | | | |
| | Drug: Food Interac | rtions | | | | |
| | Drug. i obu intera | | | | | |
| | None listed | | | | | |
| PHYSICIAN'S ORDER | | | 273 SARS-CoV-2 Vaccine) in | accordance with | | |
| | the following table: | | | | | |
| | | | | I | | |
| | Age | First dose | Second dose | | | |
| | Age 18 years of age | | 0.5 mL IM no sooner than | | | |
| | Age | First dose | 0.5 mL IM no sooner than 28 days after the | | | |
| | Age 18 years of age | First dose | 0.5 mL IM no sooner than 28 days after the administration of first dose | | | |
| | Age 18 years of age | First dose | 0.5 mL IM no sooner than 28 days after the administration of first dose and up to four months (112 | | | |
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| | Age 18 years of age | First dose | 0.5 mL IM no sooner than 28 days after the administration of first dose and up to four months (112 days). | | | |
| | Age 18 years of age | First dose | 0.5 mL IM no sooner than 28 days after the administration of first dose and up to four months (112 days). While it is preferable to | | | |
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| | Age 18 years of age | First dose | 0.5 mL IM no sooner than 28 days after the administration of first dose and up to four months (112 days). While it is preferable to provide the same vaccine product to complete an mRNA series, if there is | | | |
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| F | | | |
|--------------------|---|--|--|
| | mRNA vaccine is now | | |
| | preferred as the second | | |
| | dose for individuals who | | |
| | received their first dose | | |
| | of | | |
| | AstraZeneca/COVISHIELD | | |
| | vaccine. ⁽¹¹⁾ This second | | |
| | dose is given at an | | |
| | interval between 8 to 12 | | |
| | | | |
| | weeks or more following | | |
| | the AstraZeneca | | |
| | vaccine. ⁹ If eligible for an | | |
| | exception to the | | |
| | extension of the interval, | | |
| | the individual should | | |
| | consult with their health | | |
| | care provider to | | |
| | determine the | | |
| | recommended interval | | |
| | between four and 12 | | |
| | weeks. Upon receiving | | |
| | proof of this | | |
| | | | |
| | recommendation, this | | |
| | medical directive | | |
| | provides authority to the | | |
| | immunizer to administer | | |
| | vaccine at the prescribed | | |
| | interval if it is between 4 | | |
| | to 12 weeks following | | |
| | the first dose dose. ⁷ | | |
| | *If administration of the second dose is delayed it should be given as soon as | | |
| | possible. Every effort should be made to vaccinate with the second dose as | | |
| | outlined above. | | |
| ADDITIONAL DOSES | It may be possible to withdraw an additional 0.5 ml dose of vaccine i.e. an 11 th (5ml | | |
| FROM VACCINE VIALS | vial) or 15 th dose(8ml vial). ¹⁰ | | |
| (6) | | | |
| | As an interim measure, an additional dose of COVID-19 vaccine may be extracted | | |
| | from up to 3 vials of the same vaccine using aseptic technique as follows: | | |
| | Prepare vaccine in a clean, designated medication area away from where | | |
| | | | |
| | vaccination is occurring. | | |
| | • Ensure that all of the vaccine vials accessed to extract an additional dose of | | |
| | vaccine are from the same vaccine lot. | | |
| | Combine vaccine from vials with residual volume only (i.e. not full vials) and | | |
| | do not save up vials until the end of clinic before combining for extra dose. | | |
| | • The different vials accessed have been under the same vaccine storage and | | |
| | handling conditions – do not combine vials that have been thawed and | | |
| | stored at $+2^{c}$ to $+8^{c}$ with those that have just been removed from a freezer. | | |
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| Vials cannot be placed into a refrigerator beyond the permitted 24 hours post |
| puncture in order to have enough vaccine to make up a full extra dose. |
| This vaccine can be stored in refrigerator or frozen (needs to be thawed before |
| use), however DO NOT store on dry ice. |
| |
| Refrigerator |
| Vials can be stored refrigerated between 2-8 degrees Celsius for up to 30 days prior |
| to first use. |
| |
| |
| Once the vial has been entered (needle-punctured), it can be stored at room |
| temperature or refrigerated (between $+2^{\circ}C$ to $+25^{\circ}C$), but must be discarded after |
| 24 hours. Do not refreeze. ¹ Remember to time and date when vial is first |
| |
| punctured. |
| The data in the surface should be used as seen as fare; bla and no later then 24 |
| The dose in the syringe should be used as soon as feasible and no later than 24 |
| hours after the vial was first entered (needle-punctured). ¹ |
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| |
| Freezer |
| Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 vaccine) is stored frozen |
| between -25 degrees to -15 degree Celsius and should be stored in the original |
| carton to protect from light. |
| |
| Vials must be thawed before use by removing the required number of vial(s) from |
| storage and thaw in the refrigerated conditions between 2 degrees to 8 degrees |
| Celsius for 2 hours and 30 minutes. Then, let each vial stand at room temperature |
| for 15 minutes before administering. |
| |
| Vials alternatively can be thawed at room temperature between 15 degrees to 25 |
| degrees for 1 hour. |
| 0 |
| After thawing, DO NOT refreeze. This vaccine is preservative-free. |
| |
| Any unused vaccine should be disposed of in accordance with local requirements. |
| While not recommended as routine practice, in exceptional circumstances a single |
| dose of Moderna vaccine may be transported in a syringe whilst careful attention is |
| taken to adhere to the parameters as outlined in the following documents |
| referenced below. ¹² Available data support transportation of one or more thawed |
| |
| vials in liquid state for up to 12 hours at 2° to 8°C (36° to 46°F) when shipped using |
| shipping containers which have been qualified to maintain 2° to 8°C (36° to 46°F) |
| and under routine road and air transport conditions with shaking and vibration |
| minimized . ⁽¹²⁾ |
| |
| Drawn up vaccine must be administered within 24 hours from the time the vial was |
| first punctured. ⁽¹¹⁾ |
| |
| This process will only be enacted for exceptional circumstances only with the |
| approval and support of the Medical Officer of Health. |
| |

| VACCINE | Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 Vaccine) presents as a white | | |
|---------------------|---|--|--|
| PRESENTATION | to off-white frozen suspension for intramuscular injection. It may contain white or | | |
| | translucent product –related particulates. Inspect the vials visually for foreign | | |
| | particulate matter and/or discoloration prior to administration. If either of these | | |
| | conditions exists, the vaccine should not be administered. | | |
| VACCINE | Moderna COVID-19 Vaccine (mRNA-1273 SARS-CoV-2 vaccine) contains a lipid | | |
| COMPONENTS | nanoparticle (LNP) comprised of messenger Ribonucleic acid (mRNA) encoding the | | |
| | | | |
| | viral spike glycoprotein (S) of SARS-CoV-2 and four lipids. Moderna COVID-19 | | |
| | vaccine does not contain any preservatives, antibiotics, adjuvants or human or | | |
| | animal derived materials. | | |
| | | | |
| | Non-medicinal ingredients: | | |
| | 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC) | | |
| | Acetic acid | | |
| | Cholesterol | | |
| | Lipid SM-102 | | |
| | | | |
| | PEG2000 DMG 1,2-dimyristoyl-racglycerol, | | |
| | methoxy-polyethylene glycol* | | |
| | Sodium acetate | | |
| | Sucrose | | |
| | Tromethamine | | |
| | Tromethamine hydrochloride | | |
| | Water for injection | | |
| | • Water for injection | | |
| | Madarna COVID 10 vaccing is supplied in a multi dass 100 type 1 glass vial (sither | | |
| | Moderna COVID-19 vaccine is supplied in a multi-dose 10R type 1 glass vial (either | | |
| | 5ml or 8ml) with a 20mm FluroTec [®] coated chlorobutyl elastomer stopper, 20mm | | |
| | flip off aluminum seal. The 5ml vials contain 10 (maximum 11 doses) while the 8 n | | |
| | vials each contains 14 doses (maximum 15 doses). | | |
| | | | |
| | *Polyethylene glycol (PEG) is found in bowl preparation products for colonoscopy, | | |
| | laxatives, cough syrup, cosmetics, skin care products and some food and drinks, | | |
| | however this list is not exhaustive. | | |
| | | | |
| | The vial stopper does not contain natural rubber latex. | | |
| | | | |
| | Vials are packaged in a secondary carton containing a total of ten mRNA-1273 | | |
| | | | |
| | vaccine vials per carton. | | |
| EXPIRY DATE AND LOT | The expiration date is not printed on the USA cartons or vials. This will be available | | |
| NUMBER | on Moderna's Canadian Website: <u>https://www.modernacovid19global.com/ca</u> . ¹⁰ | | |
| | | | |
| | A list of expiry dates and lot numbers for USA products can be found in Moderna | | |
| | lots expiry. | | |
| | | | |
| | The Lead PHN shall check each lot number utilized prior to preparation and | | |
| | distribution at each shift and clinic. For US products they will check the website | | |
| | linked above for the expiration date and for other producers they will find the | | |
| | expiration date on the box or vials. | | |
| | | | |

| REFERENCES | 1. Moderna | Therapeutics Inc. COVID | 19 vaccine Moderna COVID-19 Vaccine | | |
|--------------------|---|----------------------------|---|--|--|
| | xp(mRN/ | A-1273 SARS-CoV-2 vaccine | e) Product Monograph. June 30, 2021 | | |
| | 2. National | Advisory Committee on In | nmunization (NACI): Recommendations on | | |
| | the Use | of COVID-19 Vaccine(s). Ma | arch 1, 2021; July 2, 2021 | | |
| | | | Moderna Second Dose Interval & Firefighter | | |
| | • • | Email dated February 23, | | | |
| | | <i>,</i> | CAG). Recommendations on Exceptions to | | |
| | | | -19 Vaccines. May 25, 2021 (or as current). | | |
| | 5. COVID 19 2021. | 9 Vaccination Recommend | ations for Special Populations. March 11, | | |
| | | , | nmunization (NACI). An Advisory Committee Committee on Immunization (NACI)- NACI | | |
| | Rapid Re 2021. | sponse: Interchangeability | of Authorized COVID-19 Vaccines. June 1, | | |
| | | | e of COVID-19 Vaccines-update on Special ervals. Media Lines. May 28, 2021. | | |
| | 8. Ministry of Health. June 12, 2021. Ontario Accelerates Second Doses of AstraZeneca COVID-19 Vaccine: Second Dose of mRNA or AstraZeneca can be Administered at an Eight Week Interval with Informed Consent. | | | | |
| | 9. Moderna COVID-19 Vaccine US Supply Communication June 14 2021 | | | | |
| | 10. Summary of National Advisory Committee on Immunization statement June 17 2021. | | | | |
| | - | 9 Handling and Storage Gu | idance. Version 6.1. June 24 2021. | | |
| SIGNATURE AND DATE | | | | | |
| | Signature: | Original Signed By | Date: July 3, 2021 | | |
| | | | R: July 2021 | | |