COVID-19 mRNA Vaccine
COMIRNATY®  Supplier: Pfizer
(Pediatric presentation: 10 mcg/0.2 mL)

INDICATIONS:
- Individuals 5-11 years of age (inclusive).
- See COVID-19 Vaccine Eligibility

The vaccine is approved for use in those 5-11 years of age only.

DOSES AND SCHEDULE:
- Primary series for individuals 5-11 years of age A: 2 doses given as 0.2 mL (10 mcg) IM, 8 weeks apart. B, C, D

For individuals who are moderately to severely immunosuppressed (see COVID-19 Vaccine Eligibility), a 3-dose primary series is recommended. The 3rd dose should be provided at least 28 days after the 2nd dose. For those who are aged 6-11 years, the Moderna COVID-19 vaccine may be considered.

ADMINISTRATION:
- This product is differentiated from the adult/adolescent product by an orange vial cap and an orange border around the vial label.
- Prior to dilution and after thawing, gently invert the vial 10 times to mix; do not shake.
- Allow the vaccine to come to room temperature (up to +25°C) prior to dilution. E Dilute the vaccine with 1.3 mL of the sodium chloride (0.9%) provided for this purpose, using a needle 21-gauge or narrower. Discard remaining diluent.
- Gently invert the vial containing the diluted product 10 times to mix; do not shake.
- After dilution, the vaccine will be an off-white suspension. Inspect vials to confirm there are no particulates and no discoloration. If any is observed do not administer the vaccine.
- The withdrawal of 10 doses from a single vial is dependant, in part, on the type of syringes and needles used to withdraw doses from the vials; low dead-volume syringes and/or needles should be used if available, as standard syringes and needles may not facilitate the extraction of a 10th dose from a single vial. Additional strategies for extraction of 10 doses:
  - Allow contents to settle for 20 seconds after final inversion.
  - Go slow: withdrawing the diluted vaccine too quickly may result in fizzing.

A The minimum age for vaccine receipt is based on age at presentation (i.e., the vaccine may be offered to individuals on or after their 5th birthday).
B Children less than 12 years of age who commence a series with the 10 mcg formulation and have turned 12 years of age by the time the second dose is due may receive the 30 mcg formulation that is authorized for individuals aged 12 years and older to complete their primary series. If the second dose is given as the 10 mcg formulation, this dose should be considered valid and the series complete.
C While the Health Canada authorized schedule for this product is 21 days between dose 1 and 2, the recommended interval is 8 weeks and is associated with optimal vaccine effectiveness. Clients requesting a shorter interval should be informed that this is not optimal for protection, but their request for an earlier dose should be granted, without need for MHO approval. If administration of the second dose is delayed beyond 8 weeks, the series does not need to be restarted.
D The minimum interval between doses is 19 days. NOTE: there is no ‘4-day grace period’ allowance to the minimum interval. For optimal response, immunizers should observe the recommended 8-week interval as much as possible, however, doses given earlier than recommended may still be considered valid and need not be repeated if minimum intervals are observed.
E It is not required that the vaccine reach room temperature prior to dilution, however the vaccine must be fully thawed.
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ADMINISTRATION (continued):
- Adjustments to remove air bubbles and dose calibration should be done with the needle still in the vial to avoid loss of vaccine.
- When drawing the 10th dose, place the needle tip just inside the rubber stopper; slightly tilt vial and ensure the needle bevel is facing down and close to the vial neck.
- Use the same needle to withdraw and administer.
- If there is enough vaccine left in the vial for a complete 0.2 mL dose after 10 doses have been removed from the vial, another dose(s) can be drawn and administered.

Storage and Handling / Dilution Requirements: A
- Frozen vials prior to use:
  - The vaccine must be stored at ultra-low temperatures of -90°C to -60°C up to the end of its expiry date B and kept in the original packaging, until ready to use.
  - The vaccine can be stored for up to 30 days in a validated thermal container with dry ice; requires re-icing with 20-23 kg of new dry ice every 5 days if opened twice daily.
- Vials prior to dilution:
  - The frozen vial contains 1.3 mL and needs to be thawed before mixing with the diluent. A carton of 10 vials can be thawed in the refrigerator for 4 hours or at room temperature (up to +25°C) for 30 minutes.
  - The vaccine may be stored at +2°C to +8°C for up to 10 weeks.
  - The vaccine may be at room temperature (up to +25°C) for up to 24 hours, with no more than 12 hours from the time of dilution (first puncture).
  - While at room temperature avoid exposure to direct sunlight and ultraviolet light. Thawed vials can be handled in room light conditions.
  - Do not refreeze thawed vials.
- Vials after dilution:
  - Once thawed and the vial has come to room temperature (up to +25°C) add 1.3 mL of sodium chloride diluent and discard any remaining diluent. C
  - This multi-dose product contains no preservative.
  - The vaccine must be kept between +2°C to +25°C and used within 12 hours D from the time of dilution, ensuring that the total cumulative time at room temperature (+8°C to +25°C), pre- and post-dilution, does not exceed 24 hours. Avoid exposure to direct sunlight and ultraviolet light. After dilution, the vaccine vials can be handled in room light conditions.
  - The vaccine can be pre-loaded into a syringe for up to 12 hours. Ensure that the

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A For more information on storage and handling and temperature monitoring refer to Appendix E: Management of Biologicals and Guidance for Receiving and Handling the Pfizer-BioNTech COVID-19 mRNA Vaccine (including dry ice procedures).
B The date printed on the vial and carton is the date of manufacture. When stored at -90°C to -60°C, the vaccine may be used for up to 12 months from the date of manufacture.
C It is not required that the vaccine reach room temperature prior to dilution, however the vaccine must be fully thawed.
D Vial labels and cartons may state that a vial should be discarded 6 hours after dilution; however the information in the Product Monograph stating 12-hour stability supersedes the number of hours printed on vial labels and cartons.
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ADMINISTRATION (continued):

diluted vial of vaccine/pre-loaded syringe is clearly labelled with the date and time of dilution.

Summary of Vial Thawing and Storage:

<table>
<thead>
<tr>
<th>Store at ultra-low temperatures upon receiving the vaccines in:</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra-low temperature freezer (-90°C to -60°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or Thermal shipping container (-90°C to -60°C)</td>
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</tr>
<tr>
<td><strong>Regular Use</strong></td>
<td>Thaw in refrigerator (+2°C to +8°C):</td>
<td>At room temperature (up to +25°C):</td>
<td>Post dilution:</td>
</tr>
<tr>
<td></td>
<td>• 4 hours for a carton of 10 vials (less time is needed for a fewer number of vials).</td>
<td>• Store at room temperature for up to 24 hours, with no more than 12 hours from the time of dilution.</td>
<td>• Store at +2°C to +25°C and use within 12 hours (from the time of dilution), ensuring that the total cumulative time at room temperature (&gt; +8°C to +25°C), pre- and post-dilution, does not exceed 24 hours.</td>
</tr>
<tr>
<td></td>
<td>• Store in refrigerator for up to 10 weeks.</td>
<td></td>
<td>• Any unused vaccine must be discarded after 12 hours.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Immediate Use</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Post dilution:</th>
</tr>
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<td></td>
<td>Thaw to room temperature (up to +25°C) for 30 minutes</td>
<td>• Store at +2°C to +25°C and use within 12 hours (from the time of dilution), ensuring that the total cumulative time at room temperature (&gt; +8°C to +25°C), pre- and post-dilution, does not exceed 24 hours.</td>
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</tbody>
</table>

BOOSTER DOES:
No booster doses are recommended at this time.

SEROLOGICAL TESTING:
Serological testing is not recommended before or after immunization.

CONTRAINDICATIONS:
1. History of anaphylactic reaction to any component of the vaccine is generally considered a contraindication, however for more details on the administration of COVID-19 vaccines to individuals with allergies to components of the COVID-19 vaccines, please see the PRECAUTIONS section.
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PRODUCT COMPONENTS:
Other components: (4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate); 1,2-
distearyloxy-sn-glycero-3-phosphocholine; cholesterol; tromethamine, tromethamine
hydrochloride; sodium chloride; sucrose.

PRECAUTIONS:
• For individuals with a history of anaphylactic reaction to a previous dose of an mRNA
COVID-19 vaccine, re-vaccination (i.e., administration of a subsequent dose in the series
when indicated) may be offered with the same vaccine or the same mRNA platform if a risk
assessment deems that the benefits outweigh the potential risks for the individual and if
informed consent is provided. Prior to re-vaccination, consultation with an allergist or
another appropriate physician (e.g., Medical Health Officer) is advised. If re-vaccinated,
vaccine administration should be done in a controlled setting with expertise and equipment
to manage anaphylaxis, with an extended period of observation of at least 30 minutes after
re-vaccination.
• For individuals with suspected hypersensitivity or non-anaphylactic allergy to COVID-19
vaccine components, the vaccine should be administered in a controlled setting with
expertise and equipment to manage anaphylaxis, with an extended period of observation
post-vaccination of at least 30 minutes.
• Wait until symptoms of an acute illness are resolved before vaccinating with COVID-19
vaccine to differentiate symptoms of illness from vaccine side effects.
• Individuals diagnosed with Multisystem Inflammatory Syndrome in Children (MIS-C) should
delay COVID-19 vaccination until they have recovered from illness and for 90 days after the
date of diagnosis of MIS-C.
• Additional doses of a COVID-19 vaccine should be deferred in individuals who experienced
a physician-diagnosed myocarditis or pericarditis event following a previous dose of a
COVID-19 mRNA vaccine. However those with a history compatible with pericarditis who
had no cardiac workup or had normal investigations may proceed to further vaccination
once symptoms have resolved and 90 days have passed since receipt of the dose
associated with the event. For those with confirmed myocarditis (with or without pericarditis),
an individual risk/benefit discussion between the patient and their healthcare provider should
occur so that the patient (with their parent/guardian as applicable) can make an informed
decision about proceeding with a subsequent dose. If another dose is offered, the Pfizer-
BioNTech COVID-19 vaccine should be offered because of the lower rate of
myocarditis/pericarditis compared to the Moderna vaccine. Informed consent should include
the unknown rates of recurrence of myocarditis and/or pericarditis following receipt of
additional doses of the Pfizer-BioNTech COVID-19 vaccine, as well as the need to seek
immediate medical assessment and care should symptoms develop. Deferral is not required
for those with a prior history of myocarditis or pericarditis that is unrelated to COVID-19
mRNA vaccines and are no longer being followed by a medical professional for heart issues.
For more information refer to the NACI summary.
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SPECIAL CONSIDERATIONS:
• COVID-19 vaccines can be administered concomitantly or at any time before or after the administration of another inactivated or live vaccine.
• Deferral of COVID-19 vaccination is no longer recommended for individuals who have received anti-SARS-CoV-2 monoclonal antibodies or convalescent plasma for treatment or prevention of COVID-19.
• A complete series of COVID-19 vaccine may be offered to individuals without contraindications who have recovered from confirmed SARS-CoV-2 infection.
• Recipients should practice public health measures for prevention of SARS-CoV-2 infection and transmission regardless of vaccination with COVID-19 vaccine, at this time.

ADVERSE EVENTS:
Local: pain, swelling, redness.
Systemic: fatigue, headache, myalgia, chills, arthralgia, fever, nausea and vomiting.

Rare cases of facial paralysis/Bell’s palsy have been reported.

Pericarditis and myocarditis in association with the mRNA vaccines have been observed internationally and in Canada (see Public Health Agency of Canada reports). These events have been reported in BC at a rate of 1.5 per 100,000 doses of mRNA vaccine administered, and are seen more often after the second dose, and in males under 40 years of age. Most cases recover fully. In BC, information to support health care provider recognition and reporting of this event in association with the mRNA vaccines has been issued. The exact cause of these events is not known but is thought to be related to the immune response to the spike protein which is also important in immunity against COVID-19 virus.

REFERENCES:
1. Pfizer vaccine product monograph