

Information for Healthcare Providers *revised January 8, 2021

Product Name	Pfizer-BioNech COVID-19 Vaccine	Moderna COVID-19 Vaccine
Product Monogrpah	https://covid-vaccine.canada.ca/info/pdf/pfizer-biontech-covid-19-vaccine-pm1-en.pdf	https://covid-vaccine.canada.ca/info/pdf/moderna-covid-19-vaccine-pm1.pdf
Date the vaccine was authorized in Canada	December 9, 2020	December 23, 2020
Ages that are eligible for the vaccine	16 years and older	18 years and older
Effectiveness	95.0% (7 days after dose 2 in individuals without evidence of prior SARS-CoV-2 infection)	94.1% (14 days after dose 2)
Dose for the vaccine	0.3 mL (30mcg of mRNA)	0.5 mL (100 mcg of mRNA)
Type of vaccine	mRNA	mRNA
Diluent*	Yes 1.8 mL 0.9% sodium chloride provided by the National Operation Centre (NOC) / manufacture (NOTE: do not use other diluents)	No
Does per vial	5 doses	10 doses
Multiple doses	Yes (2 doses)**	Yes (2 doses)**
Interval of doses	21 days apart (minimum interval 19 days; alternate schedule 28 days apart)	28 days apart (minimum interval 21 days; alternative interval - none)
Delay in dose 2 of vaccine series	Second dose should be provided as soon as possible, does not require restarting the series	Second does should be provided as soon as possible, does not require restarting the series
Route of administration	Intramuscular injection into the deltoid muscle	Intramuscular injection into the deltoid muscle
Storage*	<p>Frozen vials (prior to use)</p> <ul style="list-style-type: none"> • Store at: - 80 °C to - 60 °C • Protected from light, in the original package <p>Thawed unpunctured vials (prior to dilution)</p> <ul style="list-style-type: none"> • Store at: + 2 °C to + 8 °C - for up to 120 hours (5 days) • Store at: room temperature (up to + 25 °C) for no more than 2 hours • Minimize exposure to light (room light, direct sunlight and ultraviolet light) <p>NOTE: do not refreeze thawed vials</p>	<p>Frozen vials (prior to use)</p> <ul style="list-style-type: none"> • Store at: - 25 °C to - 15 °C • Do not store with dry ice • Do not store below - 40 °C <p>Thawed unpunctured vials</p> <ul style="list-style-type: none"> • Store at: + 2 °C to + 8 °C for up to 30 days • Store at: + 8 °C to + 25 °C for up to 12 hours <p>NOTE: do not refreeze thawed vials</p>




	<p>Thawed punctured vials (after dilution)</p> <ul style="list-style-type: none"> • Store at: + 2 °C to + 25 °C • Vaccine must be used within 6 hours from the time of dilution (otherwise the vial has to be discarded) 	<p>Thawed punctured vials</p> <ul style="list-style-type: none"> • Store at: + 2 °C to below + 25 °C • Vaccine must be used within 6 hours from the time of first puncture (otherwise the vial has to be discarded)
<p>Vaccine efficacy (safety)</p>	<p>This has been determined for those 16 years and older.</p> <p>Pediatrics:</p> <ul style="list-style-type: none"> • Safety and efficacy has not yet been established for children under the age of 16 years. <p>Pregnant/Breast-feeding women:</p> <ul style="list-style-type: none"> • Safety and efficacy has not yet been established for pregnant/breast-feeding women • It is unknown at this point if the Pfizer-BioNTech COVID-19 Vaccine is excreted in human milk. Therefore, any risks to newborns/infants cannot be excluded. <p>Geriatrics:</p> <ul style="list-style-type: none"> • People 65 years of age and older have been included in the clinical studies and their data contributes to the overall efficacy for the Pfizer-BioNTech COVID-19 Vaccine. <p>Person with an autoimmune condition or immunosuppressed person</p> <ul style="list-style-type: none"> • COVID-19 vaccines should not be routinely offered until more evidence is made available. 	<p>This has been determined for those 18 years and older.</p> <p>Pediatrics:</p> <ul style="list-style-type: none"> • Safety and efficacy has not yet been established for children. <p>Pregnant/Breast-feeding women:</p> <ul style="list-style-type: none"> • Safety and efficacy has not yet been established for pregnant/breast-feeding women <ul style="list-style-type: none"> ○ Women who are vaccinated with the Moderna COVID-19 Vaccine during pregnancy are encouraged to enroll in the registry by calling 1-866-663-3762) • It is unknown at this point if the Moderna COVID-19 Vaccine is excreted in human milk. Therefore, any risks to newborns/infants cannot be excluded. <p>Geriatrics:</p> <ul style="list-style-type: none"> • People 65 years of age and older have been included in the clinical studies and their data contributes to the overall efficacy for the Moderna COVID-19 Vaccine. <p>Person with an autoimmune condition or immunosuppressed person</p> <ul style="list-style-type: none"> • COVID-19 vaccines should not be routinely offered until more evidence is made available.
<p>Eligibility Criteria</p>	<p>Those 16 years of age or older and depending on the phase of the vaccine rollout. ***</p>	<p>Those 18 years of age or older and depending on the phase of rollout. ***</p>
<p>Side effects of the vaccine</p>	<p>Very common (may affect > 1 in 10 people)</p> <ul style="list-style-type: none"> • Pain at injection site • Tiredness • Headache • Muscle pain 	<p>Common or very common side effects (these are generally mild and do not last long)</p> <ul style="list-style-type: none"> • Pain at the injection site • Tiredness

	<ul style="list-style-type: none"> • Chills • Joint pain • Fever <p>Uncommon (may affect up to 1 in 100 people)</p> <ul style="list-style-type: none"> • Enlarged lymph nodes <p>*Note: if there are any side effects that are not listed here, they should be report to a healthcare professional.</p>	<ul style="list-style-type: none"> • Headache • Muscle ache and stiffness • Chills • Fever • Swelling or redness at the injection site • Nausea and/or vomiting • Enlarged lymph nodes <p>*Note: if there are any side effects that are not listed here, they should be report to a healthcare professional.</p>
Drug interaction	<ul style="list-style-type: none"> • No drug interaction studies have been performed to date. • The Pfizer-BioNTech COVID-19 Vaccine is NOT to be mixed with other vaccines/products in the same syringe. 	<ul style="list-style-type: none"> • No drug interaction studies have been performed to date. • The Moderna COVID-19 Vaccine is NOT to be mixed with other vaccines/products in the same syringe.
Interaction with other vaccines	<ul style="list-style-type: none"> • COVID-19 vaccines should not be given simultaneously with other live or inactivated vaccines at this time 	<ul style="list-style-type: none"> • COVID-19 vaccines should not be given simultaneously with other live or inactivated vaccines at this time
Ingredients	<p>Medicinal ingredient: mRNA</p> <p>Non-medicinal ingredients:</p> <ul style="list-style-type: none"> • 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 • dibasic sodium phosphate dehydrate • monobasic potassium phosphate • potassium chloride • sodium chloride • sucrose • water for injection 	<p>Medicinal ingredients: mRNA-1273 SARS-CoV-2</p> <p>Non-medicinal ingredients:</p> <ul style="list-style-type: none"> • 1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC) • acetic acid • cholesterol • PEG2000 DMG (1,2-dimyristoyl-rac-glycerol,methoxy-polyethyleneglycol) • lipid SM-102 • sodium acetate • sucrose • tromethamine • tromethamine hydrochloride • water for injection
Food/Drug allergy	<p>Individuals should not receive the Pfizer-BioNTech COVID-19 vaccine if they have a history of a severe allergic reaction to a component (substance) of the vaccine.</p> <ul style="list-style-type: none"> • Known potential allergen is Polyethylene glycol 	<p>Individuals should not receive the Moderna COVID-19 Vaccine if they have a history of a severe allergic reaction to a component (substance) of the vaccine.</p> <ul style="list-style-type: none"> • Known potential allergen is Polyethylene glycol
Longevity/lasting protection	Unknown at this time	Unknown at this time
Ordering of the vaccine	TBD	TBD

- *It is recommended that the vials are clearly labeled with the times for storage/use purposes
- **The NACI recommends the vaccine series is completed with the same COVID-19 vaccine product.
- *** Ontario has developed a plan for vaccine rollout. The plan is as follows:



ONTARIO'S COVID-19 VACCINATION PROGRAM*

PHASES	VACCINE QUANTITY	POPULATION TO BE VACCINATED	DISTRIBUTION SITES
 1	<ul style="list-style-type: none"> Initial doses vaccinated as planned over 2500 people, with additional shipments arriving over the coming weeks 95000 doses of Pfizer-BioNTech and almost 53000 doses of Moderna vaccines have been delivered An estimated total of over 2M doses is expected in this phase 	<ul style="list-style-type: none"> Residents, essential caregivers, and staff of congregate care settings for seniors Health care workers Adults in Indigenous populations Adult recipients of chronic home health care 	<ul style="list-style-type: none"> Initially, two pilot sites, followed by selected hospital sites in Grey-Lockdown and Red-Control zones, expanding to approximately 21 hospitals across the province LTC homes and Retirement Homes as soon as feasible
 2	<p>Increasing stock of vaccines available</p>	<p>Continued for health care workers, long term care homes, retirement homes, home care patients with chronic conditions, and additional First Nations communities and Indigenous populations</p> <p>When additional doses are available, populations to be vaccinated TBD**</p>	<p>Expanded vaccination sites</p>
 3	<p>Vaccines available for every Ontarian who wants to be immunized</p>	<p>All eligible Ontarians**</p>	<p>Widely available across Ontario</p>

*Data available as of January 5, 2020

**Further prioritization may occur within his group based on available vaccine supply, grounded in an ethical and data-driven framework,

References:

- [Canadian National Advisory Committee on Immunization – Recommendations – Use of COVID-19 Vaccines](#)
- [COVID-19 Vaccines for Ontario](#)
- [Product Monograph - Pfizer-BioNTech COVID-19 Vaccine](#)
- [Product Monograph – Moderna COVID-19 Vaccine](#)
- [Recommendations of the National Advisory Committee on Immunization \(NACI\) on the use of the Pfizer-BioNTech COVID-19 vaccine](#)

