

COVID-19 mRNA Vaccine for Children 5 to 11 years old

Public Health - Factsheet for
Parents and Guardians

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Manitoba 

Immunization is one of the most important accomplishments in public health. Over the past 50 years, immunization has led to the elimination, containment and control of diseases that were once very common in Canada.¹ Vaccines help our immune system recognize and fight bacteria and viruses that cause diseases.

The COVID-19 mRNA vaccine is given by injection (needle) with two doses given at two different points in time. These first two doses are referred to as the primary series. Information in this factsheet is about the COVID-19 mRNA vaccine primary series and is for individuals aged five to 11 years of age.

COVID-19 vaccine recommendations are different for people who are moderately to severely immunocompromised. If you are moderately to severely immunocompromised due to disease (e.g., organ transplant, leukemia, lymphoma) or treatment (e.g., chemotherapy, high-dose steroids), or have an autoimmune condition (e.g., Rheumatoid Arthritis, Multiple Sclerosis, etc.), refer to the factsheet titled, "COVID-19 Vaccine: Information for Individuals who have an autoimmune condition and/or are immunocompromised" available at manitoba.ca/covid19/vaccine/resources.html.

There are two mRNA COVID-19 vaccines approved and available for children aged five to 11 years of age in Manitoba:

1. Pfizer/Comirnaty™ (10 mcg) pediatric vaccine is approved for children aged five to 11 years.
2. Moderna/Spikevax™ (50 mcg) is approved for children aged six to 11 years.

COVID-19 vaccines were first approved for use in adults and then teens in Canada. On November 19, 2021, a series of Pfizer/Comirnaty™ (10 mcg) was approved for use in children aged five to 11 years. On March 17, 2022, Moderna/Spikevax™ (50 mcg) was approved for use in children aged six to 11 years.

Are mRNA vaccines safe in the pediatric population?

Health Canada conducted a rigorous scientific review of the available medical evidence to assess the safety of the COVID-19 mRNA vaccines. Health Canada did not identify any major safety concerns, and continues to monitor post-marketing studies. Millions of children have safely received the Pfizer vaccine in Canada and around the world.

Rare cases of myocarditis/pericarditis (inflammation of the heart muscle/lining around the heart) have been reported following immunization with the COVID-19 mRNA vaccines. However, to date, after months of real world usage of vaccine in this age group, no increased risk of myocarditis or pericarditis has been observed in children aged five to 11 who are vaccinated, compared to children who are not vaccinated. For more information on myocarditis/pericarditis please see www.manitoba.ca/asset_library/en/covid/covid19_vaccine_factsheet.pdf. Please speak to your health care provider if you have questions about your individual risks and benefits of receiving the vaccine.

Data on the safety of COVID-19 vaccines will continue to be monitored (i.e., real world use) to detect and respond to potential safety signals that may arise, including myocarditis/pericarditis. As with other vaccines and medicines, some children may experience adverse reactions or side effects. Most side effects are not serious and should go away on their own and within a day or two after getting the vaccine.

¹ The Public Health Agency of Canada

Does COVID-19 affect children?

All children have been affected throughout the pandemic, as they have experienced disruptions to their normal social activities.

While most children who get COVID-19 have no symptoms or experience only mild symptoms, some get really sick requiring care in the hospital. Children may also experience symptoms consistent with post-COVID-19 condition (also referred to as long COVID). While it appears that children have a lower risk of post-COVID-19 condition compared to adults, research is ongoing about the frequency and severity of post-COVID-19 condition in children.

Up-to-date data on COVID-19 infections in Manitoba is available at www.manitoba.ca/health/publichealth/surveillance/covid-19/index.html.

Is the mRNA vaccine for children the same as the vaccine given to teens/adults?

There are two different Pfizer/Comirnaty™ vaccines approved by Health Canada and available for use: one is for teens/adults aged 12 years and older, the other is for children aged five to 11 years. The two vaccines are made in the same way, but the Pfizer/Comirnaty™ pediatric vaccine for children aged five to 11 years uses a lower dose and a different ingredient known as a buffer, which is used to keep the vaccine stable.

- The vaccine for teens/adults is a 30 microgram dose while the vaccine for children is 10 micrograms.
- The pediatric vaccine uses a Tris/sucrose buffer while the teen/adult vaccine originally used a phosphate buffer. All Pfizer/Comirnaty™ vaccines now use a Tris/sucrose buffer.

The same Moderna/Spikevax™ vaccine is used for teens/adults aged 12 years and older and for children aged six to 11. However, the amount of vaccine administered to children (50 mcg) is half the dose compared to what is given to healthy teens and adults for dose 1 and dose 2 (100 mcg).

Who should get the mRNA vaccine and which mRNA vaccine should they get?

Vaccines help prepare the body to fight potential future exposure to COVID-19 by getting your child's immune system ready.

The vaccine helps to protect your child and family, as well as people in your community.

It is recommended that all children aged five to 11 years of age be offered an mRNA COVID-19 vaccine. The Pfizer/Comirnaty™ pediatric vaccine is authorized for use in children aged five to 11 years and Moderna/Spikevax™ is authorized for use in children aged six to 11 years. NACI preferentially recommends the Pfizer vaccine for children five to 11 years old. This is because more data is available from the real-world use of this vaccine. However, either vaccine can be offered to this age group.

When the first dose in a COVID-19 vaccine series is an mRNA vaccine, the same mRNA vaccine product should be offered for the second dose if readily available. When the same mRNA vaccine product is not readily available, or is unknown, another mRNA COVID-19 vaccine product can be considered interchangeable and should be offered.

Your child can get the COVID-19 vaccine at the same time as other (live or inactivated) vaccines. Children with a chronic medical condition or living with a weakened immune system can get the vaccine. These children are at increased risk of developing more serious symptoms if they get COVID-19.

How many doses will my child need and when should they get them?

At this time, most children need two doses of mRNA vaccine given at least eight weeks apart. In some situations, doses may be given closer together after discussing the risks and benefits with your child's health care provider or as recommended by the relevant public health authority.

Children who are **moderately to severely immunocompromised** are recommended to receive a total of three doses of mRNA vaccine. Your doctor can provide more information about when it's the best time to get immunized and with which product, based on a review of your medical history and individual

circumstances. You can also find **Information for Individuals who have an autoimmune condition and/or are immunocompromised** here www.manitoba.ca/covid19/vaccine/resources.html.

Children in this age group are eligible to receive a booster dose.

At this time, only the pediatric Pfizer/Comirnaty™ vaccine is approved for use as a booster dose in this age group. Information on booster doses of COVID-19 vaccine is available at manitoba.ca/covid19/vaccine/resources.html and should be reviewed as part of the informed consent process for booster doses.

Who should NOT get the mRNA vaccine?

As a precautionary measure, children who experience myocarditis/pericarditis after the first dose of an mRNA vaccine, should wait to get the second dose until more information is available. People who would prefer not to wait to get their second dose should talk to their immunizer or health care provider about the risks and benefits of proceeding with vaccination. People who have a history of myocarditis unrelated to mRNA COVID-19 vaccine should consult their clinical team prior to vaccination.

Children with a history of Multisystem Inflammatory Syndrome in Children (MIS-C) should delay vaccination until clinical recovery or until it has been at least 90 days since diagnosis, whichever is longer.

An allergy referral is required before vaccination if your child is allergic to an active substance or any ingredients of Pfizer/Comirnaty™ or Moderna/Spikevax™, or if your child had a severe allergic reaction after the first dose of an mRNA vaccine. An allergic reaction can be life-threatening. For information about any of the COVID-19 vaccine ingredients, please review the vaccine manufacturer's product monograph at www.manitoba.ca/covid19/vaccine/resources.html or speak with your child's immunizer or health care provider. There are two ingredients in the mRNA vaccines that are potential allergens known to cause possible allergic reactions, including serious reactions:

1. Polyethylene glycol (PEG) may be found in a multitude of products including bowel preparation products for colonoscopies, laxatives, cough syrup, cosmetics, contact lens care solutions, skin care products, specific medications and as an additive in some food and drinks. Children with PEG allergies may also be allergic to polysorbate 80. **If your child is allergic to PEG or polysorbate 80, regardless of the severity of reaction, speak with their health care provider before immunization.**
2. Tromethamine (trometamol or Tris) may be found in certain medications. **If your child is allergic to tromethamine, regardless of the severity of reaction, speak with your health provider before getting immunized.**

Allergic reactions generally happen shortly after the vaccine is administered. **That is why all children, teens and adults are routinely observed for a minimum of 15 minutes after immunization.**

Your child can be immunized if they have allergies not related to the vaccine, such as allergies to foods, medications, insect stings or seasonal/environmental allergies. Talk to your child's immunizer or health care provider about all of their allergies before vaccination.

Your child should wait to be vaccinated if they have a fever or other symptoms that could be due to COVID-19. If they have been infected with COVID-19, it is recommended to wait eight weeks after infection before getting a next dose of vaccine. But at a minimum, they need to wait until their symptoms are gone and the recommended isolation period is over.

What are the possible side effects of the mRNA vaccine?

In general, the side effects observed during the clinical trials were similar to other vaccines. The side effects were generally mild or moderate, and went away a few days after vaccination. They included things like:

- pain, redness and swelling at the site of injection
 - body chills
 - feeling tired and feverish
 - headache
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- muscle and joint pain
- nausea, diarrhea and vomiting

These are common side effects of the vaccine and are not a risk to your child's health. Over-the-counter medicines like acetaminophen (e.g., Tylenol®) or ibuprofen (e.g., Advil®) may be considered to help manage these adverse events (like pain or fever, respectively), if they occur **after vaccination**.

Acetylsalicylic Acid (example: Aspirin®) should NEVER be given to children because it can cause a severe liver and brain disease called Reye's Syndrome.

As with all vaccines, more serious side effects are possible. However, these are rare.

The signs and symptoms of myocarditis/pericarditis that have been rarely reported following vaccination with the mRNA COVID-19 vaccine for teens/ adults, include shortness of breath, chest pain, or the feeling of a rapid or abnormal heart rhythm. **If your child experiences any of these symptoms, go to the nearest emergency department or health centre.** For more information on myocarditis/pericarditis please, review the factsheet for adolescents/adults available at www.manitoba.ca/asset_library/en/covid/covid19_vaccine_factsheet.pdf.

It is important to stay in the immunization clinic for 15 minutes after getting any vaccine in the unlikely event of a severe allergic reaction. Your child may need to stay in the clinic for 30 minutes if they have had a serious allergic reaction to a vaccine in the past. This can include hives, difficulty breathing, or swelling of the throat, tongue or lips. Very rarely, this can happen hours after getting vaccinated. **If this happens after you and your child leave the immunization clinic, call 911 or go to the nearest emergency department or health centre for immediate attention.**

Report any serious or unexpected adverse reactions to a health care provider, or call Health Links-Info Santé at 204-788-8200 or 1-888-315-9257 (toll free in Manitoba).

For a full list of possible side effects, please review the vaccine manufacturer's product monograph at: www.manitoba.ca/vaccine or speak with your immunizer or health care provider.

Your child's record of protection

All immunizations, including the COVID-19 vaccine, are recorded on your child's immunization record in Manitoba's immunization registry. This registry:

- allows health care providers to find out which immunizations your child has received or needs to have
- may be used to produce immunization records or notify you or your health care provider if a particular immunization has been missed
- allows Manitoba Health and Seniors Care as well as public health officials to monitor how well vaccines work in preventing disease

The Personal Health Information Act protects your child's information and the information for any people you provide care for. You can choose to have this personal health information hidden from health care providers. For additional information, please contact your local public health office or speak with a health care provider.

For information and to obtain your child's Manitoba Immunization Card, Manitoba immunization record or Pan-Canadian Proof of Vaccination Credential (PVC), go to: www.manitoba.ca/covid19/vaccine/immunizationrecord/residents.html.

Where can I find more information?

For more information about COVID-19 or the COVID-19 vaccines, talk to your health care provider. You can also call Health Links – Info Santé in Winnipeg at 204-788-8200 or 1-888-315-9257 (toll free in Manitoba).

Or visit:

Province of Manitoba: manitoba.ca/covid19/index.html

Government of Canada: canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19.html