The product specific information for the COVID-19 vaccines available in BC can be found in Part 4: Biological Products, COVID-19 Vaccines.

At least one COVID-19 XBB.1.5 mRNA vaccine is recommended for everyone 6 months of age and older.\(^A\) It is particularly recommended for those at increased risk of COVID-19 infection or severe disease, including:

- People 65 years of age and older
- Indigenous peoples 55 years of age and older \(^B\)
- Residents of long-term care homes and other congregate living settings for older adults.
- Individuals with underlying medical conditions that place them at higher risk of severe COVID-19 (see Appendices)
- Individuals who are pregnant
- Individuals residing in Indigenous communities \(^B\)
- Healthcare workers
- First responders: police, fire fighters, ambulance

### COVID-19 XBB.1.5 mRNA Vaccine Recommendations \(^C\)

<table>
<thead>
<tr>
<th>Age</th>
<th>Previous COVID-19 vaccination history (^D) prior to COVID-19 XBB.1.5</th>
<th>Number of doses of COVID-19 XBB.1.5 vaccine</th>
<th>Recommended interval between doses (^E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 months-4 years of age (inclusive) (^F)</td>
<td>• 2 or more doses</td>
<td>1 dose of Moderna or Pfizer</td>
<td>6 months after last dose</td>
</tr>
<tr>
<td></td>
<td>• 1 dose</td>
<td>1 dose of Moderna; or 2 doses of Pfizer</td>
<td>8 weeks after last dose and 8 weeks between doses (if 2 doses being provided)</td>
</tr>
<tr>
<td></td>
<td>• 0 doses</td>
<td>2 doses of Moderna; or 3 doses of Pfizer</td>
<td>8 weeks between doses</td>
</tr>
<tr>
<td>5 years of age and older</td>
<td>Regardless of previous vaccination history</td>
<td>1 dose of Moderna or Pfizer (5-11 years; 12 years and older)</td>
<td>6 months after last dose</td>
</tr>
<tr>
<td>Moderately to severely immunosuppressed (see Appendix B) 6 months-4 years of age (inclusive) (^G)</td>
<td>• 3 or more doses</td>
<td>1 dose of Moderna or Pfizer</td>
<td>6 months after last dose</td>
</tr>
<tr>
<td></td>
<td>• 2 doses</td>
<td>1 dose of Moderna; or 2 doses of Pfizer</td>
<td>8 weeks after last dose and 8 weeks between doses (if 2 doses being provided)</td>
</tr>
<tr>
<td></td>
<td>• 1 dose</td>
<td>2 doses of Moderna; or 3 doses of Pfizer</td>
<td>8 weeks after last dose and 8 weeks between doses</td>
</tr>
<tr>
<td></td>
<td>• 0 doses</td>
<td>3 doses of Moderna; or 4 doses of Pfizer</td>
<td>8 weeks between doses</td>
</tr>
<tr>
<td>Moderately to severely immunosuppressed (see Appendix A and Appendix B) 5 years of age and older</td>
<td>• 3 or more doses</td>
<td>1 dose of Moderna or Pfizer (5-11 years; 12 years and older)</td>
<td>6 months after last dose</td>
</tr>
<tr>
<td></td>
<td>• 2 doses</td>
<td>1 dose of Moderna or Pfizer (5-11 years; 12 years and older)</td>
<td>8 weeks after last dose</td>
</tr>
<tr>
<td></td>
<td>• 1 dose</td>
<td>2 doses of Moderna or Pfizer (5-11 years; 12 years and older)</td>
<td>8 weeks after last dose and 8 weeks between doses</td>
</tr>
<tr>
<td></td>
<td>• 0 doses</td>
<td>3 doses of Moderna or Pfizer (5-11 years; 12 years and older)</td>
<td>8 weeks between doses</td>
</tr>
</tbody>
</table>

\(^A\) For those 12 years of age and older who are unwilling or unable to receive a COVID-19 mRNA vaccine, the Novavax COVID-19 XBB.1.5 vaccine may be provided.

\(^B\) Indigenous peoples (including First Nations, Métis and Inuit) may be disproportionately affected by COVID-19 because of longstanding inequities related to the social determinants of health due to the impacts of colonization.

\(^C\) Moderna COVID-19 XBB.1.5 mRNA vaccine is the preferred product for children 6 months to 4 years age, as well as individuals who are moderately to severely immunosuppressed due to a potentially greater immune response induced by the Moderna vaccine in these populations; however, if unavailable, or upon client request, an age-appropriate Pfizer COVID-19 XBB.1.5 vaccine can be given.

\(^D\) Includes any World Health Organization Emergency Use Authorization Qualified COVID-19 Vaccines.

\(^E\) For minimum intervals, see the respective product page in Part 4: Biological Products, COVID-19 Vaccines.

\(^F\) If any dose in the series is a Pfizer-BioNTech vaccine (3 mcg dose), individuals in this age group should have a total of at least 3 doses of COVID-19 vaccine with at least one of these doses being the COVID-19 XBB.1.5 formulation.

\(^G\) If any dose in the series is a Pfizer COVID-19 vaccine (3 mcg dose), individuals in this age group who are moderately to severely immunosuppressed should have a total of at least 4 doses of COVID-19 vaccine with at least one of these doses being the COVID-19 XBB.1.5 formulation.
Appendices

Appendix A

For those 12 years of age and older, moderately to severely immunosuppressed includes those who:

- Have had a solid organ transplant and are taking immunosuppressive therapy (heart, lung, liver, kidney, pancreas or islet cells, bowel or combination organ transplant).
- Will have, are having, or are on active treatment for solid tumour or haematologic malignancies (like myeloma or leukemia):
  - Will have, are having, or in the last 12 months have received systemic treatment for a haematological malignancy, or in the last 24 months have received anti-CD20 or other B-cell depleting therapies for a haematological malignancy.
  - Will have, are having, or in the last 24 months have had a bone marrow, stem cell transplant or CAR-T \(^{H}\) or who are still taking immunosuppressive drugs.
  - Will have, are having, or in the last 6 months have received anti-cancer systemic therapy for solid tumours (including but not limited to cytotoxic chemotherapy; molecular targeted therapy; immunotherapy; monoclonal antibodies; bone modifying agents used in the setting of metastatic disease; high dose steroids e.g., equivalent to $> 20$ mg/day for more than 1 month but excluding patients only receiving hormonal or bone modifying therapy in the adjuvant setting).
  - Are planned for radiation, are having or will have had radiation in the last 3 months.
  - Have a diagnosis of CLL/SLL, myeloma/plasmacytoma, or low grade lymphoma.
- Prior AIDS defining illness or prior CD4 count $\leq 200$ mm\(^3\) or prior CD4 fraction $\leq 15\%$ or any detectable plasma viral load since January 2021 or HIV infection and $\geq 65$ years old or perinatally acquired HIV infection.
- Are on active treatment with the following categories of immunosuppressive therapies:
  - In the last 2 years, been treated with anti-CD20 agents, B-cell depleting agents or similar therapeutic agents.
  - In the last 3 months, been treated with biologic agents that are significantly immunosuppressive, oral immune-suppressing drugs, steroids (orally or by injection $>14$ days), immune-suppressing infusions/injections or intermittent high dose steroids administered as immune suppression prior to intravenous enzyme replacement treatment.
- Have combined immune deficiencies affecting T-cells, immune dysregulation (particularly familial hemophagocytic lymphohistiocytosis) or those with type 1 interferon defects (caused by a genetic primary immunodeficiency disorder or secondary to anti-interferon autoantibodies).
- Have a moderate to severe primary immunodeficiency which has been diagnosed by an adult or pediatric immunologist and requires ongoing immunoglobulin replacement therapy (IVIG or SCIG) or the primary immunodeficiency has a confirmed genetic cause (e.g., DiGeorge syndrome, Wiskott-Aldrich syndrome).
- On dialysis (hemodialysis or peritoneal dialysis) or have stage 5 chronic kidney disease (eGFR $<15$ mL/min) or have glomerulonephritis and receiving steroid treatment.

Appendix B

For children 6 months to 11 years of age, moderately to severely immunosuppressed includes those who:

- Have had a solid organ transplant (heart, lung, liver, kidney, pancreas or islet cells, bowel or combination organ transplant).
- In the last year, received systemic treatment for a haematological malignancy, including anti-CD20 or other B-cell depleting therapies.
- In the last 2 years, have had a bone marrow, stem cell transplant, CAR-T \(^{H}\), or is still taking immunosuppressant medications.
- In the last 6 months have received anti-cancer systemic therapy for solid tumors (including but not limited to: cytotoxic chemotherapy, molecular targeted therapy, immunotherapy, monoclonal antibodies, bone modifying agents used in the setting of metastatic disease, high dose steroids [e.g. equivalent of $> 20$ mg/day for more than 1 month but excluding patients only receiving hormonal or bone modifying therapy in the adjuvant setting]).

\(^{H}\) Revaccination following HSCT or CAR-T therapy is recommended and can occur as early as 3 months post HSCT or CAR-T therapy.
- In the last 3 months, have received or are receiving radiation therapy for cancer.
- In the past year, have received anti-CD20, B-cell depleting or similar agents.
- In the last 3 months, received immunosuppressing therapies including biologic agents, oral-immune suppressing drugs, steroids (orally or by injection for a period of > 14 days), immune suppressing infusions/injections or intermittent high dose steroids administered as immune suppression prior to intravenous enzyme replacement treatment.
- On dialysis (hemodialysis or peritoneal dialysis) or have stage 5 chronic kidney disease (eGFR <15 mL/min) or have glomerulonephritis and receiving steroid treatment.
- Have a primary immunodeficiency which has been diagnosed by a pediatric immunologist.
- Prior AIDS defining illness or HIV infection with prior CD4 count ≤ 200/mm$^3$, prior CD4 ≤ 15% or detectable plasma viral load in the last year.

**Appendix C**

Underlying health conditions includes those who have:
- Severe respiratory disorders (e.g., cystic fibrosis, severe COPD or asthma)
- Rare blood disorders (e.g., homozygous sickle cell disease, highest risk thalassemia)
- Rare metabolic disorders (e.g., urea cycle defects, methylmalonic aciduria, propionic aciduria)
- Anatomic or functional asplenia
- Diabetes treated with insulin (includes Type 1 and Type 2)
- Hematological and other cancers not included in Appendix A (e.g., chronic hematological malignancies under surveillance or active solid tumours or metastatic cancer not on treatment but undergoing surveillance)
- Significant developmental disabilities (e.g., Down Syndrome, cerebral palsy)
- Pregnant and have a serious heart disease
- Neurological or other conditions causing significant muscle weakness around lungs