COVID-19 Vaccine (ChAdOx1-S [recombinant])
AstraZeneca COVID-19 Vaccine  Supplier: AstraZeneca
COVISHIELD  Supplier: Verity Pharmaceuticals

INDICATIONS:
- Individuals 18 years of age and older for dose 2
- Effective June 7, 2021, individuals who received AstraZeneca/COVISHIELD vaccine as dose 1 will be invited to receive dose 2. For more information, go to the BCCDC COVID-19 Vaccine Eligibility page.

These vaccines are not approved for use in those less than 18 years of age.

DOSES AND SCHEDULE:
Adults 18 years of age and older: 2 doses given as 0.5 mL IM, 8 to 12 weeks apart.

ADMINISTRATION:
- No reconstitution required.
- Following withdrawal of all available 0.5 mL doses, the residual vaccine from up to three vials may be withdrawn into the same syringe to constitute a full dose provided the vials are from the same manufacturer and the same lot number. See addendum for more information.

Storage and Handling:
- Unopened multidose vial:
  - +2°C to +8°C up to the end of its expiry date, kept in the original packaging and protected from light. Do not freeze.
- Opened multidose vial:
  - After first vial puncture, the vaccine is stable at room temperature (up to +30°C) for 6 hours OR at +2°C to +8°C for 48 hours.
  - After the first vial puncture, the vial can be re-refrigerated, but the cumulative storage time at room temperature must not exceed 6 hours, and the total cumulative storage time must not exceed 48 hours. After this time, the vial must be discarded.
  - The vaccine can be pre-loaded into a syringe for up to 6 hours at room temperature (up to +30°C).
  - Ensure that the vial/syringe is clearly labelled with the date and time of first vial entry.
  - During use, vials/syringes may be handled in room light conditions.

A These vaccines are no longer being offered as a first dose, unless there is a contraindication to the mRNA vaccines, or as advised by the Medical Health Officer or an allergist.
B Informed consent should include the risk and symptoms of Thrombosis with Thrombocytopenia Syndrome (TTS) versus the individual's risk of serious illness from COVID-19, as well as the need to seek immediate medical care should symptoms develop.
C The minimum age for vaccine receipt is based on year of birth (e.g., the vaccine may be offered to individuals who will be turning 18 years of age within the current calendar year), per BC Government recommendations.
D The two ChAdOx1-S vaccines are interchangeable within the vaccine series. NACI recommends that individuals who received a first dose of the AstraZeneca/COVISHIELD vaccine may receive either AstraZeneca/COVISHIELD vaccine or an mRNA vaccine (Pfizer-BioNTech or Moderna) for their second dose, unless contraindicated.
E While the approved minimum interval between dose 1 and 2 is 4 weeks, the preferred interval is 8 to 12 weeks. If administration of the second dose is delayed, the series does not need to be restarted.
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BOOSTER DOSES:
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 a previous dose of the vaccine or to any component of the vaccine. These individuals should be offered an mRNA COVID-19 vaccine and observed for at least 30 minutes after immunization.
2. History of thrombosis with thrombocytopenia following a previous dose of an adenovirus vector COVID-19 vaccine. These individuals should be offered an mRNA vaccine.
3. History of capillary leak syndrome.

PRODUCT COMPONENTS:
Potential allergens: polysorbate 80.
Other components: disodium edetate dihydrate, ethanol, L-histidine, L-histidine hydrochloride monohydrate, magnesium chloride hexahydrate, sucrose.

PRECAUTIONS:
• For the following populations, a complete COVID-19 vaccine series should be offered to individuals in the authorized age group if a risk assessment deems that the benefits outweigh the potential risks for the individual, and if informed consent includes discussion about the limited data on the use of COVID-19 vaccine in these populations:
  o immunosuppressed due to disease or treatment
  o those with an autoimmune condition
  o pregnancy and breastfeeding
• For individuals with suspected hypersensitivity or non-anaphylactic allergy to COVID-19 vaccine components, consultation with an allergist is advised. If there is a specific concern about a possible allergy to a component of the COVID-19 vaccine being administered, an extended period of observation post-vaccination of 30 minutes may be warranted; alternately, the vaccine can be administered in an emergency room setting, also with a prolonged observation period.
• Individuals who have experienced a previous cerebral venous sinus thrombosis (CVST) with thrombocytopenia, unrelated to adenovirus vector COVID-19 vaccination, or heparin-induced thrombocytopenia (HIT) should only receive this vaccine if the benefits outweigh the potential risks and an mRNA vaccine is unavailable.
• Wait until symptoms of an acute illness are resolved before vaccinating with COVID-19 vaccine to differentiate symptoms of illness from vaccine side effects.
• There is insufficient evidence on the receipt of COVID-19 vaccine following receipt of anti-SARS-CoV-2 monoclonal antibodies or convalescent plasma for treatment or prevention of COVID-19. Therefore, COVID-19 vaccination should be deferred for at least 90 days to

A For more information see the CRA Recommendation on COVID-19 Vaccination in Persons with Autoimmune Rheumatic Disease.
B For more information see the SOGC Statement on COVID-19 Vaccination in Pregnancy.
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PRECAUTIONS (continued):
- Avoid potential interference of the antibody therapy with vaccine-induced immune response. Deferral is not required following treatment with tocilizumab or sarilumab.
- Individuals diagnosed with Multisystem Inflammatory Syndrome in Children (MIS-C) or Adults (MIS-A) should delay COVID-19 vaccination until they have recovered from illness and for 90 days after the date of diagnosis of MIS-C or MIS-A.
- Due to the theoretical risk that viral vector vaccines may temporarily affect cell-mediated immunity, resulting in false-negative TST or IGRA test results, these tests should be administered and read before COVID-19 immunization or delayed for at least 4 weeks after immunization. COVID-19 immunization may take place at any time after all steps of tuberculin skin testing have been completed.

SPECIAL CONSIDERATIONS:
- COVID-19 vaccines can be administered concomitantly or at any time before or after the administration of another inactivated or live vaccine.
- A complete series of COVID-19 vaccine may be offered to individuals without contraindications who have recovered from PCR-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, pruritus.
Systemic: fatigue, headache, myalgia, chills, arthralgia, fever, malaise, nausea.

A potential increased risk of serious blood clots has been observed with most cases having onset 4 to 28 days following receipt of the AstraZeneca or COVISHIELD vaccine. This adverse event is being referred to as Thrombosis with Thrombocytopenia Syndrome (TTS) and is estimated to occur in approximately 1 in 50,000 vaccine recipients. The frequency of TTS following a second dose is currently reported as approximately 1 per 600,000. Symptoms warranting medical attention include: headache beginning beyond 4 days after vaccination, blurred vision, difficulty speaking, seizure, difficulty moving parts of the body, shortness of breath, chest pain, new severe swelling, pain or colour change of an arm or a leg, persistent abdominal pain, abnormal bruising, reddish or purple spots or blood blisters under the skin, or bleeding beyond the site of vaccination.

In addition, a very small number of cases of capillary leak syndrome have occurred in people who received AstraZeneca vaccine. Capillary leak syndrome is a very rare, serious condition that causes fluid leakage from small blood vessels (capillaries), resulting in swelling mainly in the arms and legs, low blood pressure, thickening of the blood and low blood levels of albumin (an important blood protein). As of May 27, 2021, more than 78 million doses of AstraZeneca have been administered in the EU/EEA and the UK, and 6 cases of capillary leak syndrome were observed within 4 days of vaccination; 3 of these cases occurred in individuals with a history of the syndrome.
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REFERENCES:
1. AstraZeneca product monograph
2. COVISHIELD product monograph
3. National Advisory Committee on Immunization: Recommendations on the use of COVID-19 Vaccine(s)

ADDENDUM: Pooling residual vaccine from up to three vials to constitute an extra dose

Following withdrawal of all available 0.5 mL doses, a full 0.5 mL dose may be constituted from the residual vaccine volume from up to three separate vials, provided the vials are from the same manufacturer and same lot number. In order to minimize the risk of microbial contaminants and maintain product quality, the following processes should be followed:

- Only vials containing residual vaccine volume are to be used to prepare a full dose when using multiple vials to constitute a single dose. Residual volume should not be combined with contents from a different vial that still contains at least one full dose of the vaccine (to minimize the chance of contaminating the contents of a vial that still contains multiple doses of the vaccine).
- Given this vaccine does not contain preservative, and therefore has a short timeline for its use following first vial puncture, pooling of residual vaccine from two or three vials must occur as soon as possible - it is not recommended to save multiple vials with residual volume for use at one time (e.g., the end of the clinic).
- Perform hand hygiene before handling the vaccine. Strictly adhere to aseptic technique while handling the vaccine and minimize the number of vial punctures.
- Firmly and briskly wipe the surface of the rubber stopper with an alcohol swab for initial and subsequent uses, being sure to apply friction, and allow it to dry for at least 10 seconds.
- To assist with the withdrawal of residual vaccine from the vial, invert the vial and ensure the end of the needle is below fluid level and situated in the groove of the vial stopper.
- Once the residual vaccine is withdrawn, keep the needle in the vial when expelling air bubble(s) to minimize vaccine wastage.
- Check the syringe to ensure it contains the total 0.5 mL dose prior to administration.
- If not administered immediately, the syringe should be clearly labeled with the date and time of the vial with the shortest timeframe for use.