

A practical approach to storing, handling, preparing and giving the Ad26.COV2.S COVID-19 vaccine







February 2021

Contents

How to store and handle the COVID-19 vaccine	3	
How to prepare and draw up the COVID-19 vaccine	4	
The vaccine client pathway	5	
Pre-vaccination health check	6	
Further assess risk of allergy before giving the COVID-19 vaccine	7	
How to give the COVID-19 vaccine	8	
Advise the client who has just been vaccinated with the COVID-19 vaccine	10	
Assess and manage immediate symptoms following vaccination	11	
If client contacts health worker within 1 week of vaccination	12	

Indicators of who is responsible for what activity



How to store and handle the COVID-19 vaccine

Store and prepare according to the Investigational Product Preparation and Administration Instructions (IPPI)/Instruction for use related to Clinical Study VAC31518COV3012.

STEP 1: Storage upon receipt of vaccine

- Ensure strict security measures are in place: be aware additional security measures may be needed for the COVID-19 vaccine vials. Every vial will be accounted for. - Armed response vehicles to accompany transport carriers.
- Store in freezer/refrigerator with lock, in an access controlled room. Only authorised individuals will be given access. Cameras, alarms, security guards will be arranged locally.

Store in a freezer:

- Store the vaccine in a freezer at range of -15°C to -25°C for an uninterrupted period of up to 1 year.
- Record on Drug Accountability Logs.

Store in a refrigerator:

- Store in a refrigerator at 2-8°C for up to **28 days**.
- Record the cold storage start date and time on label on carton box.
- This is the date/time that carton box was removed from frozen conditions and put into the refrigerator.
- Use date/month/year and hours: minutes format.
- Store in refrigerator with reliable continuous temperature monitoring device.
- Ensure cold chain is maintained at all times:
- Check and record temperature storage \geq 2 times a day.
- Ensure a working back-up power supply is connected to the refrigerator/freezer in case of load shedding/power outages.
- Place entire carton box in refrigerator avoid storing single vials on their own.

DO NOT:

- Stack other supplies on top of thawing vaccine vials.
- Let vials touch each other.
- Let vials touch sides of refrigerator (metal).
- Remove vial caps.

Refreeze

- Wipe down vial with alcohol until vaccine is fully thawed.
- Store at room temperature.

STEP 2: Thaw vial/s before injecting

- Allow a carton of 20 frozen vials to thaw overnight in refrigerator at 2-8°C.
- Allow vaccine to acclimatise before preparing. To do this:
- Remove vaccine vial from carton box in refrigerator and check expiry.
- Record on Drug Accountability Logs.
- Leave vaccine vial at room temperature for 15-30 minutes to acclimatise: record acclimatisation start time.
- After 15-30 minutes, check that no ice is in vial: record acclimatisation end time.
- Vaccine vial (unpunctured) is stable for a total of 12 hours at 9-25°C. Not recommended for shipping or storage.
- During vaccination process: after the first puncture, the vaccine (vial or filled syringe) can be held:
- In the **refrigerator** at 2-8°C for up to **6 hours**.
- At room temperature (8-25°C) for up to 2 hours.

DO NOT: • Refreeze. • Try to speed up thawing process by holding vial in hand or using heat source.

AVOID:

- Exposure to direct sunlight.
- Shaking.

How to prepare and draw up the COVID-19 vaccine

• If possible, use a designated preparation area that is not near water, sink, heating vents, fans, air conditioners or other equipment that causes air currents or where contaminated items are placed. Prepare and administer at room temperature. Avoid exposure to direct sunlight. Use aseptic technique.

STEP 3: Inspect vaccine

- Check that it is the Ad26.COV2.S COVID-19 vaccine and confirm the high dose vial has a red flip-off cap.
- Confirm concentration: 2x 10¹¹ VP/mL. It can reference VAC31518COV3001 or VAC31518COV3012.
- Check the appearance:
- Check the colour: liquid should be colourless slightly yellowish.
- Check the clarity: liquid should be clear to slightly opalescent (this means slightly shiny) and free of visible/solid particles.
- Check that vial has no cracks, abnormalities or evidence of tampering.

STEP 4: Prepare vaccine

- Mix contents: gently swirl vial in an upright position for 10 seconds. Do not shake!
- Remove red, flip-off cap.
- Withdraw 0.25mL from the vaccine vial using a new sterile 1mL syringe and an appropriate needle (22-26G).
- 1 1/2" and 1" needle lengths are provided. Prepare vaccine using needles in a ratio of 60:40 or at the proportion required at the vaccination sites.
- Check final volume is correct and no air is in syringe. Record date and time of first vial puncture and record volume withdrawn.
- Recap needle used for preparation. Do not change needle between withdrawing from vial and injecting.
- Stick label on syringe which at a minimum notes batch number, date of preparation and time of expiry.
- Complete accountability and preparation worksheet.
- Record expiry date and time of prepared syringe:
- This will be 2 hours after first puncture of vial if filled syringe is to be stored at room temperature.
- •This will be 6 hours after first puncture of vial if filled syringe is to be stored in a refrigerator at 2-8°C.
- Hand over the filled syringes to the vaccinator and complete chain of custody form. Ensure both temperature and security measures are maintained.

Note: a maximum of 2 doses can be withdrawn from the multidose vial. DO NOT attempt to withdraw any residual volume from the vial after withdrawing 2 doses.

STEP 5: Storage after first puncture

Store in refrigerator for up to 6 hours

After the first puncture, the vaccine (vial or filled syringe) can be held in a refrigerator at 2-8°C for up to 6 hours.

Keep at room temperature (maximally 25°C) for up to 2 hours

After the first puncture, the vaccine (vial or filled syringe) can be held at room temperature (8-25°C) for up to 2 hours.

STEP 6: Disposal

• Do not discard used vials and material remaining in a vial after preparation. Follow sponsor directive. Mark vial as used with black marker pen.



Prepare materials needed to draw up 2 doses of Ad26.COV2.S vaccine per vial:

- Ad26.COV2.S vaccine vial (2x 10¹¹ VP/mL 0.5mL suspension): red flip-off cap
- 2x 1mL syringes
- 2x needles: allowed needles 22-26G x 1-2"
- 2x dispensing labels

4

The vaccine client pathway

- Ensure triage staff and queue marshals wear surgical mask and keep 1-2m distance from clients.
- Ensure queuing clients keep 1-2m apart from each other and wear masks.
- Have 70% alcohol-based hand sanitiser available for all clients entering vaccination area.
- Ensure triage station has a supply of surgical masks to give to symptomatic clients.

Screen vaccine clients:

- Do temperature and weight and record: if temperature ≥ 38°C, give client a surgical mask to wear and refer to local health provider/clinic to further assess and manage.
- Ask each client if s/he has had new onset of any of the following in the last 14 days:
- Shortness of breath or difficulty breathing
- Cough

ΤN

- Sore throat
- Loss of sense of smell or change in sense of taste



Pre-vaccination health check



Further assess risk of allergy before giving the COVID-19 vaccine



How to give the COVID-19 vaccine

At the beginning of each day, check the emergency tray/box is fully equipped and discuss team members roles/responsibilities and processes in the event of emergency.

Prepare

- 1. Receive prepared syringes and needles.
- 2. Do not replace this needle. Select syringe with appropriate needle size for each client according the client's weight:
- If < 90kg: use syringe with $22-26G \times 1''$ needle.
- If \geq 90kg: use syringe with 22-26G x 1 $\frac{1}{2}$ needle.
- 3. Check prepared syringe is within expiry date/time and its appearance is correct (colourless-yellowish with no solid particles). Avoid shaking.
- 4. Check that syringe has the correct volume (0.25mL).



- Dispose of needle and syringe safely in medical sharps container.
- If any visible blood at injection site, have client apply pressure to site with piece of gauze/cotton wool.
- Dispose of all blood-stained gauze or cotton wool in medical waste.

Continue to complete record and observe client post vaccination on page 9.

Record

- Ask client to stay seated for a few minutes to avoid risk of injury from fainting while the following steps are completed:
- Clean hands and record injection site/location, time of injection, full dose given and register vaccination, including vaccine batch number on EVDS/Vaccination form.
- Advise the client post-vaccination and check understanding before discharging. See page 10.



Advise the client who has just been vaccinated with the COVID-19 vaccine

- Protection against COVID-19 usually starts at least 2 weeks after receiving the vaccine, as it takes this time to train the immune system to fight COVID-19.
- Reassure the client that they cannot catch COVID-19 from the vaccine as there is no live coronavirus in it. But it is still possible to get COVID-19 as no vaccine is 100% effective.
- Even though the vaccine decreases the chance of getting COVID-19, it is not yet clear whether it prevents spread to others. This study is one of many to help understand this.
- Advise about possible side effects, the need for ongoing COVID prevention measures, what to do if s/he develops COVID-19 symptoms and when to seek help from the Safety Desk:

Educate about possible side effects:

- Common side effects include pain or redness at the injection site, headache, fever or chills, joint or muscle aches, fatigue, feeling unwell and nausea.
- These side effects show that your immune system is preparing to fight COVID-19. Many people get these side effects, but some do not.
- If they occur, side effects start 1-2 days after vaccination and should resolve within 3 days.
- If you need to, you can take paracetamol for pain and feeling feverish.
- The vaccine only very rarely causes more serious side effects, usually severe allergy, which occurs immediately after vaccination.





Safety Desk

0800 014 956

or visit

www.sisonke.samrc.ac.za

Discuss the possibility of getting COVID-19

- It might be that the client caught COVID-19 before being vaccinated (it can take up to 14 days before symptoms start).
- It might be that the client catches it within the first few weeks after being vaccinated while the immune system is still being trained up to fight COVID-19.
- If any of the following develop, consider COVID-19 and arrange a test: new continuous cough, sore throat, a change in smell or taste or a fever that lasts more than 2 days.
- Advise client to contact their healthcare worker, COVID-19 hotline or Safety Desk.

Advise ongoing measures to avoid catching coronavirus and prevent it from spreading, especially if you are over 55 years, or have a chronic condition or impaired immunity¹:

- Wear a mask in public.
- Keep apart from others outside your home as much as possible.
- Avoid crowds and confined spaces have small gatherings outside.
- As a healthcare provider, continue to wear standard PPE at work.

Ask the client to contact the Safety Desk if any of the following occur:

- They are concerned about side effects from the vaccine.
- They test positive for COVID-19.
- They are admitted to hospital for any reason.
- They become pregnant within 3 months of receiving the vaccine.
- They need a COVID-19 antibody test.
- They participate in another study.

Ask the client if s/he has any further questions and answer them. If unsure, contact the Safety Desk.





Assess and manage immediate symptoms following vaccination

• With vaccination, fainting occurs commonly, severe allergy or anaphylaxis very rarely. If client feels faint: ilmmediately lie client flat or sit client with his/her head between knees for several minutes. • Be on the look out for the following and assess the client to distinguish a fainting episode from anaphylaxis: Anaphylaxis symptoms other than collapse: Collapse Generalised itch or rash • Swelling of face, lips, tongue Lie client down and raise legs. Difficulty breathing, wheezing, stridor • Assess timing of collapse and duration of loss of consciousness. Abdominal pain, nausea, vomiting Check breathing, pulse and BP. Collapse occurred suddenly, at the time of injection (before, Collapse occurred 5-10 minutes after the injection (could occur up to 1 hour after). during or immediately after). Loss of consciousness usually lasts 20 seconds to 1 minute Loss of consciousness is not brief and not and relieved by lying client down and raising legs. relieved by lying client down and raising legs. • BP: briefly low but rapidly normal again. • BP < 90/60 and remains low • Pulse may be slow. • Pulse > 120 Breathing usually normal but may be rapid, deep • Breathing: may have wheeze, stridor, cough. hyperventilation. If 2 or more of: 1) Generalised itch/rash or face/tongue swelling 2) Difficulty breathing 3) BP < 90/60 or dizziness/collapse 4) Abdominal pain or vomiting, anaphylaxis likely Fainting episode likely Use local anaphylaxis management protocols if available. Management: Manage and refer urgently: Observe until symptoms resolve. • Lie client down and raise legs. · Loosen any tight clothing. • Call for help: ask colleague to inform supervisor and doctor, if available. Apply cool cloth to face/neck. - Ask colleague to call emergency medical services and report suspected anaphylaxis. - Give immediately adrenaline 0.5mL (1:1000 solution) IM into mid outer thigh. Repeat every 5 minutes if needed. - Give sodium chloride 0.9% 1-2L IV rapidly regardless of BP. Then, if BP < 90/60, give further sodium chloride 0.9% 500mL IV rapidly, repeat until systolic BP > 90. Stop if breathing worsens. - Give 100% face mask oxygen, if available. - If persistent wheeze or difficulty breathing despite adrenaline, also give salbutamol 2-3 puffs via spacer and face mask, if available. Repeat, as needed. Note: if nebuliser available and client not responding to inhaler: nebulise salbutamol 0.5% 0.5-1mL (2.5-5mg) and ipratropium bromide 2mL (0.5mg) in up to 4mL sodium chloride 0.9%. - If severe symptoms or if known asthma and wheeze persisting after other anaphylaxis symptoms/signs have resolved, give promethazine 25-50mg IM/slow IV and hydrocortisone 200mg IM/slow IV. • Refer for test/s (tryptase sampling) to confirm vaccine-related anaphylaxis.

Report as Adverse Events Following Immunisation (AEFI) and replenish emergency kit

• Once client stable or referred, complete NDoH Case Reporting Form (CRF) for Adverse Events Following Immunisation (AEFI) or if anaphylaxis, Adverse Event of Special Interest (AESI) form, and report to sub-district or district office and provincial EPI manager within 24 hours. Also report to the safety desk call centre: 0800 014 956.

• Replace all medications/equipment used and seal emergency kit.

If client contacts health worker within 1 week of vaccination



¹Cool the client down: give paracetamol 1g orally. Remove clothing. Use fan and water spray to cool client. Apply ice-packs to axillae, groin and neck. Stop once temperature < 39°C.