



# COVID-19 vaccination

#### Summary of recent changes (last updated 29 November 2021):

- Recommendations throughout expanded to include vaccinations of adolescent (12-17 years old) age group.
- Note added regarding expected additional vaccine dose for immunocompromised clients as part of primary vaccine course (p3).
- Recommendations for ultra-low freezer storage for Comirnaty® vaccine updated to 9 months (p3).

Note: this guidance does not cover booster vaccine doses offered exclusively for health care workers as part of the Sisonke trial.

#### **Version 4**

Guidance for the Janssen®(JNJ) Ad26.COV2.S and Comirnaty®(Pfizer-BioNTech) BNT162b2 COVID-19 vaccines.

# Practical Approach to Care Kit: Vaccine

Guidance for vaccinators on how to store, prepare, draw up and administer COVID-19 vaccines

Updated November 2021 · Western Cape Edition

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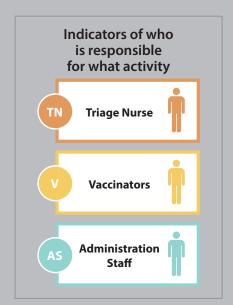
**Orange-highlighted** medications may be prescribed by a doctor or an authorised prescriber (clinical nurse practitioner or professional nurse) in accordance with his/her scope of practice within a specified field.

**Blue-highlighted** medications may be prescribed by a doctor or clinical nurse practitioner who is an authorised prescriber.

Green-highlighted medications may be prescribed by a doctor only

**Arrows** refer you to another page in the guide:

- The return arrow (つ) guides you to a new page but suggests that you return and continue on the original page.
- The direct arrow  $(\rightarrow)$  guides you to continue on another page.



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The response to COVID-19 is rapidly changing as new evidence becomes available and health systems adapt. The KTU welcomes feedback on this guidance as it continues to be updated for future versions. Please send feedback to www.knowledgetranslation.co.za/contact/feedback

# Summary table of Janssen® and Comirnaty® vaccines

	Janssen® (J&J) vaccine (Ad26.COV2.S)	Comirnaty® (PFIZER-BioNTech) vaccine (BNT162k	o2)	Record 'new' expiry date     and time every time	<b>Note:</b> If amount of vaccine left in vial cannot provide	
Vial	<ul> <li>Blue topped multi-dose vial</li> <li>Each vial contains 2.5mL: 5 doses of 0.5mL.</li> <li>Liquid suspension for injection</li> <li>Colourless to slightly yellow, clear/shiny suspension</li> </ul>	<ul> <li>Purple topped multi-dose vial</li> <li>Requires dilution (preservative-free sodium chloride 0.9</li> <li>Before dilution: 0.45mL frozen liquid drug product</li> <li>After dilution: each vial contains 2.25mL: at least 6 dose</li> </ul>	vaccine moved from freeze to refrigerator to room temperature and after dilution/first puncture. • Never re-freeze vaccine.	r a full dose, discard vial and contents into pharmaceutic waste. Do not combine vaccine from multiple vials t obtain a dose.		
Each dose	0.5mL via intramuscular injection (deltoid)	0.3mL via intramuscular injection (deltoid)		obtain a dose.		
Number of doses	One dose per adult client (18 years old and over) If immunocompromised¹, an additional 2nd dose - at least 28 days after 1st dose - as part of this primary course is needed. This can be implemented from 01 December 2021: it requires a referral form from a doctor or nurse prescriber and clients will need to re-register on EVDS.	<ul> <li>Two doses per adult client (18 years and older) – at least 2         <ul> <li>If immunocompromised¹, an additional 3rd dose - at l             implemented from 01 December 2021: it requires a re             on EVDS.</li> </ul> </li> <li>One dose per adolescent (12-17 years old)</li> </ul>	least 28 days after 2	2nd dose - as part of this prima	ary course is needed. This can b	
Approved for:	Clients ≥ 18 years old	Clients ≥ 12 years old				
Freezer storage	Freezer (-25°C to -15°C): up to 2 years	Ultra-low freezer (-75°C to -65 °C): for up to 9 months Freezer (-25°C to -15°C): for up to 14 days		removed from the ultra-low freezer, vials may be kept for 14 day 31 days at 2°C to 8°C.		
Refrigerator storage (2°C to 8°C)	For up to 3 months.	For up to 31 days	days at 2 C to 6 C.			
Thawing	<ul> <li>Preferably, thaw overnight in refrigerator (2-8°C) for 12 hours.</li> <li>Keep in original carton.</li> <li>Protect from sunlight.</li> </ul>	<ul> <li>If thawing in original tray of 195 packaged vials, thaw a</li> <li>If thawing an individual frozen vial, thaw for 30 minutes</li> <li>Protect from sunlight.</li> </ul>			e use.	
Acclimatisation	Allow at least 15 minutes after removing from refrigerator.	Allow at least 15 minutes after removing from refrigerator	or.			
Preparation	No dilution needed.	<ul><li>Dilute once vaccine thawed: use1.8mL preservative-fre</li><li>Store diluent in vaccine fridge with thawed vaccines. U</li></ul>			luent.	
Expiry times once prepared	After first puncture of vial, vaccine can be held: • In refrigerator (2-8°C) for up to 6 hours. • At room temperature (up to 25°C) for up to 3 hours.	After dilution:  • Keep at room temperature (up to 25°C) for up to 6 hou  • Do not return to refrigerator.	ırs.			
Drawing up equipment	For each dose:  • 1mL or 2mL syringe  • 1x needle - use light blue needle 23G x 1" (25mm). If client is overweight, then use a longer needle:  - Black 22G x 1½" (32mm) or blue 23G x 1½" (38mm)  • Alcohol swab (Webcol™)  • Cotton wool  • Water for cleaning  • Adhesive surgical tape (Micropore™)  • Alcohol hand sanitiser  • Vaccination card	For dilution:  • 2mL syringe and green 21G x1½" (40mm) needle  • Preservative-free sodium chloride 0.9%  For each dose:  • 0.3mL, 0.5mL or 1mL syringe  • 1x needle - use light blue needle 23G x 1″ (25mm). If cli  - Black 22G x 1¼" (32mm) or blue 23G x 1½" (38mm).  • Alcohol swab (Webcol™)  • Cotton wool  • Water for cleaning  • Adhesive surgical tape (Micropore™)	ient is overweight,		Adolescent vaccines Additional vaccine doses for immunocompromised Updated Comirnaty® storage	

Immunocompromised individuals applies to those 18 years and older and includes the following: HIV positive clients with a CD4 count less than 200 within the last 6 months, those on long-term high dose oral steroid therapy or systemic biologics for autoimmune conditions; those with cancers involving their bone marrow/blood; those who have had organ or bone marrow transplants; those without a spleen, those on long-term renal dialysis; and those that have a moderate to severe Primary Immunodeficiency Disorder (PID).

Alcohol hand sanitiserVaccination card

Keep vaccines in an access-controlled room. Lock refrigerator and rooms where the vaccines are stored. Monitor and take stock daily.

Security

# The vaccine client pathway

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- Ensure triage staff and queue marshals wear surgical masks and keep at least 1m distance from clients.
- Ensure gueuing clients keep at least 1m apart from each other and wear masks.
- Have 70% alcohol-based hand sanitiser available for all clients entering vaccination area.

#### Screen vaccine clients:

- Ask each client if s/he has had close contact with anyone diagnosed with COVID-19 in the last 10 days. If yes, delay vaccination until 10-day quarantine period is complete.
- 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
- Sore throat
- Loss of sense of smell or change in sense of taste
- Persistent headache with blocked nose/runny nose/sneezing (newer symptoms being reported with the Delta variant)

No to all Yes to any Does client have a vaccination code confirming registration on the EVDS? Manage as client with suspected COVID-19 • Give client a surgical mask to wear. • Refer to local health provider/clinic to further assess, Yes No test and manage. • Advise client that the EVDS will automatically reschedule his/her vaccination appointment and to Does client have an appointment for today? • Advise client that s/he needs to enrol (self-register on EVDS). return on that date. If client turns out to be COVID • If administration staff available and client needs help with positive now, advise to wait at least 35 days before this, direct client to administration staff. Yes No being vaccinated. Re-scheduling Does vaccination site have capacity to allow same-day vaccination for 'walk-ins' today? information Yes No/unknown • Advise to return on scheduled appointment date and time. If available at your vaccination site, direct client to administration staff to confirm ID and client details. • Alternatively, add client details to the reserve list, maintained by vaccination site, to be contacted if vaccine doses remain at the end of the day. Advise client that if s/he is not called, then to • Then direct client to vaccination waiting area. return on scheduled appointment day. • Ensure clients sit at least 1m apart.

If problems, discuss with site manager or EVDS support staff member.

# **Pre-vaccination health check**

Many clients are anxious at this stage: be kind and reassuring.

If client has a fear of needles, provide extra support and distraction techniques during vaccination 

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- The only absolute contraindication to vaccination is a history of immediate allergic reaction after a previous dose of COVID-19 vaccine or known allergy to an ingredient of vaccine.
- This page provides guidance on precautions and helps decide whether to proceed with vaccination when asking the medical questions in the 'Obtain Health Background' section on the EVDS.
- · Wear appropriate PPE: surgical mask. Clean hands between each client. Gloves not compulsory for vaccinating. If client has disclosed a positive HIV status, wear gloves to vaccinate.

#### Work through steps on the Electronic Vaccine Data System (EVDS): use the guidance below to decide whether to procced with vaccination during 'Obtain Health Background' section.

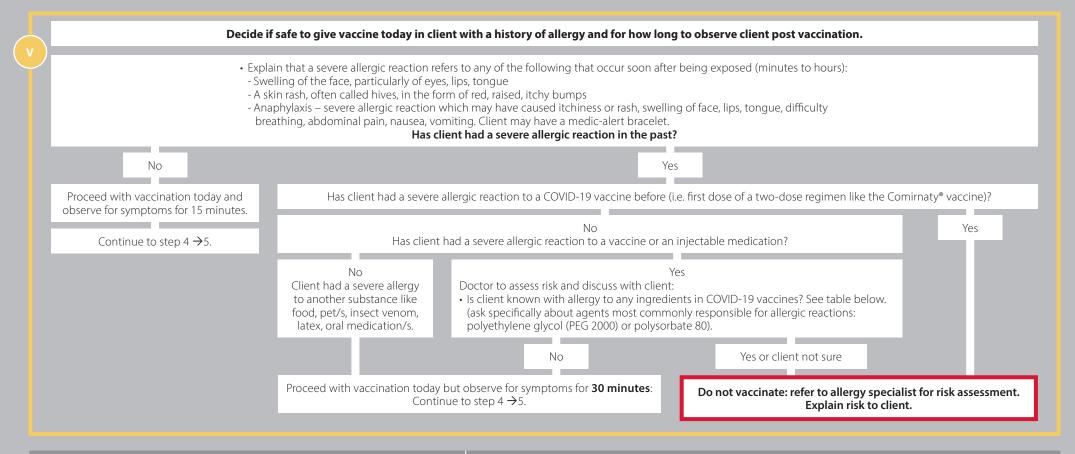
Question number in EVDS	If patient answers 'Yes'	If patient answers 'No'
1. Are you sick today?	Ask more about illness. Only delay vaccination if patient has a severe acute illness¹, so that symptoms of illness are not confused with possible adverse effects of vaccination.	Move to next question.
2. Have you received any vaccination in the past 2 weeks?	Delay vaccination: advise patient to return at least 2 weeks after last vaccination. EVDS will automatically re-schedule an appointment.	Move to next question.
3. Have you received any other COVID-19 vaccine at any time?	Ask what COVID-19 vaccine it was. If 1st dose of two-dose Comirnaty vaccine course, proceed with vaccination. If other COVID-19 vaccine, do not proceed/discuss with doctor.	Move to next question.
4. Have you been diagnosed with COVID-19 infection in the last 30 days?	Delay vaccination: advise client to return at least 1 month after recovering (at least 30 days after testing positive or onset of symptoms).	Move to next question.
5-10. Ask about previous anaphylactic reactions/severe allergy symptoms.	If 'Yes' to any of these questions: assess risk of allergy further on page 6.	
11. Do you have any chronic conditions?	<ul> <li>Tick relevant chronic condition box: reassure that chronic medical conditions are not contraindications.</li> <li>If immunocompromise - reassure that s/he can still be vaccinated. Emphasise ongoing prevention measures.</li> <li>If other', specify what chronic condition the patient has:         <ul> <li>If blood clotting disorders or anticoagulant medications (blood thinners): only if patient had previous blood clots in presence of low platelets², discuss with doctor. Otherwise, proceed.</li> <li>Advise not to stop anticoagulant medications. If on warfarin, ensure latest routine INR not above therapeutic range (usually 2.0-3.0), except for mechanical heart valve where a higher range is acceptable). Discuss if unsure.</li> <li>If patient known with autoimmune disease: check if s/he has consulted his/her doctor about being vaccinated. If not, advise to do so, as medications may need adjusting.</li> </ul> </li> </ul>	If 'no' to all, move to next question.
Have you ever been admitted to hospital with either of these rare conditions: Guillain Barré Syndrome (affects your nerves) or Capillary Leak Syndrome (affects your blood vessels)?	Arrange for Comirnaty® vaccine. If not available or unsure, discuss with doctor.	<ul><li>If female, move to next question.</li><li>If male, proceed with vaccination.</li></ul>
12. Do you suspect that you might be pregnant today? Note: Do not do pregnancy test at this visit.	<ul> <li>Encourage vaccination: explain that COVID is more dangerous in pregnant women, especially towards end of pregnancy and in those with hypertension, diabetes, obesity, TB or untreated HIV.</li> <li>Emphasize safety: explain that so far vaccine studies in pregnant women have not shown harmful effects on the developing baby or on pregnancy. Explain that the client has a greater chance of getting very sick from COVID than having a severe side effect of the vaccine.</li> <li>If client understands and consents, continue with vaccination process.</li> </ul>	Proceed with consent process and vaccination.

If breastfeeding: reassure that there are no known risks for your baby when breastfeeding. There may be benefits for your baby if you are vaccinated. Advise not to stop breastfeeding. If client consents, continue.

If proceeding with vaccination, continue to follow EVDS steps and obtain informed consent by reading aloud the information provided for the relevant vaccine.

If patient consents, draw up and give vaccine: if giving Comirnaty® vaccine 5. If giving Janssen® vaccine 5.11.

# Allergy risk assessment

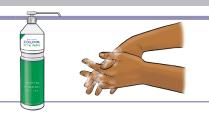


#### Janssen® (J&J) vaccine (Ad26.COV2.S) Comirnaty® (Pfizer-BioNTech) vaccine (BNT162b2) • Polysorbate 80 • 2[(polyethylene glycol (PEG))-2000]-N,N-ditetradecylacetamide Sodium chloride • 1,2-distearoyl-sn-glycero-3-phosphocholine • Citric acid monohydrate buffer Cholesterol 2 hydroxypropyl-β-cyclodextrin (HBCD) • (4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate) • Ethanol (absolute) • Potassium chloride Sodium hydroxide • Monobasic potassium phosphate · Water for injection · Sodium chloride • Recombinant, replication-incompetent Ad26 vector, encoding a stabilized variant of the • Dibasic sodium phosphate dehydrate SARS-CoV-2 Spike (S) protein • Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2 Note: Neither vaccine contains eggs, gelatin, latex, or preservatives.

# How to draw up the Comirnaty® vaccine

#### Clean hands

- Follow an aseptic technique.
- · Clean hands well before vaccine preparation, between patients or at any time if hands become soiled.



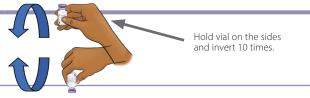
#### Bring thawed vaccine and diluent to room temperature

- If vaccine is in refrigerator:
- Remove and allow to come to room temperature for 15-30 minutes.
- Vials can be held at room temperature for up to 2 hours before mixing.
- If vaccine in cooler box:
- No need to wait, remove and start preparing.



#### 3 Gently invert to mix

- Before inspection and dilution, gently invert (tip upside down) vaccine vial 10 times.
- Do not shake! If vial is shaken, discard it.

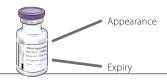


#### 4 Check and inspect

- · Check:
- Correct vaccine and diluent.
- Expiry date on vaccine and diluent.

#### · Inspect:

- Vaccine liquid prior to dilution: should be a white/off-white suspension and may contain white/off-white tiny solid particles. Do not use if liquid is discoloured.
- Vial: check for cracks or any abnormalities (evidence of tampering).



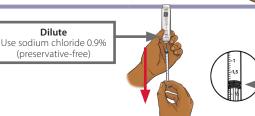
#### 5 Clean stopper and allow to dry

- Open: flip off purple plastic cap without touching rubber stopper.
- Wipe rubber stopper with an alcohol swab for each dose drawn up.
- Allow to dry before inserting needle.



#### 6 Dilute

- Dilute in original vaccine vial:
- Use a 2mL syringe and 21G or narrower needle. Ensure needle attached securely.
- Withdraw 1.8mL of sodium chloride 0.9% for injection (preservative-free).
- Remove needle from diluent and before adding diluent to vaccine vial, pull back plunger slightly to introduce a little bit of air into syringe this will help to get all diluent into vial.
- Then inject this 1.8mL of diluent slowly into vaccine vial to prevent foaming.





Hold vial on the sides

and invert 10 times.

#### How to draw up the Comirnaty® vaccine - continued

Equalise pressure in vial

Before removing needle from vial, pull needle up slightly so the tip is no longer in liquid and withdraw 1.8mL of air into empty diluent syringe.



Remove 1.8mL of air from vial

#### Gently invert to mix and inspect

- Once diluted, gently invert (tip upside down) vaccine vial 10 times.
- Do not shake! If vial is shaken, discard.
- Contents of vial should be an off-white dispersion with no particles visible now. If discoloured or particles present, discard it.
- There is now 2.25mL after dilution, which provides at least 6 doses of 0.3mL.

#### Record dilution time and date and new expiry

- Record time and date on vial that diluent added and new expiry time.
- Keep at room temperature (up to 25°C) for up to 6 hours.
- Discard any unused vaccine after 6 hours.
- Do not return to refrigerator or freezer storage.



#### Draw up: choose appropriate needle length

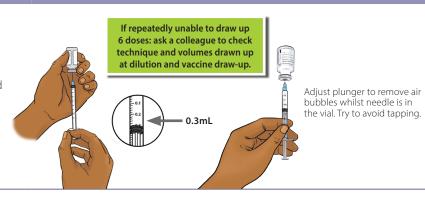
- Use a light blue 23G x 1" (25mm) needle unless client is obese. If obese, use instead one of the following: - Black 22G x 11/4" (32mm) or blue 23G x 11/2" (38mm).

#### • Attach needle securely to vaccine syringe (0.3mL, 0.5mL or 1mL syringe). Carefully uncap.

#### Withdraw vaccine and remove air bubbles

- · Wipe vial stopper with an alcohol swab and allow to dry fully. Clean for each dose drawn up.
- · Hold vial steady on flat surface and insert needle into rubber stopper. Then pick up vial and syringe and turn upside down to withdraw.
- Withdraw **0.3mL** of Comirnaty® COVID-19 vaccine.
- Adjust plunger to remove air bubbles whilst needle is still in the vial to avoid loss of vaccine. Try to avoid tapping syringe or vial.
- When drawing up 6th dose: insert needle into rubber stopper at an angle to allow access to vaccine in corner of vial.

Note: If amount of vaccine left in vial cannot provide a full 0.3mL dose, discard vial and contents into pharmaceutical waste. Do not combine vaccine from multiple vials to obtain a dose. If vial empty, discard into sharps container.



#### Do not change needles

- Do not change needles. Use the same needle that you have drawn up the dose to administer vaccine.
- Never leave a needle in the vaccine vial between drawing up doses.
- If the vaccine is not administered immediately after drawing it up, carefully recap the needle.

Use vaccine within 6 hours of dilution.

# How to administer the Comirnaty® 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.

#### 1 Position yourself well

- If not done already, complete pre-vaccination health check 5 5.
- Protect yourself: sit or stand sideways-on to client. Check that client's mask is covering his/her nose and suggest client looks straight ahead.
- Lower your chair if possible so eye level with injection site.



#### 2 Check contents of syringe

- Check contents of syringe:
- Correct dose 0.3mL
- Off-white suspension

- No particles
- No discoloration



#### 3 Expose injection site fully

- · Ask client to expose his/her non-dominant arm (the one s/he does not write with). If possible, ensure whole shoulder and upper arm can be seen.
- Injection site is usually on left arm unless client is left-handed or has a rash, bruise, tattoo, redness, swelling, or other medical condition (e.g. amputation) involving intended site, then use right arm instead.
- Document injection site on the EVDS if not left deltoid.
- Ask client to rest his/her left hand in his/her lap and relax arm.



#### 4 Locate injection site

- Find bony tip of shoulder (acromion process). Measure 2-3 fingers (3-5cm) below this.
- Use other hand to form a triangle below this.
- The injection site should be in centre of triangle in thickest part of deltoid muscle.
- Remember where this point is.

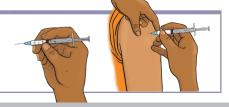


#### Clea

• Clean with cotton wool and water. Do not use an alcohol swab.

#### 6 Insert needle

- Hold syringe firmly between the thumb and forefinger like holding a pencil.
- Gently stretch and support the skin with other hand. Avoid bunching the skin unless very low muscle mass 5 15.
- Insert needle at 90° angle to skin into thickest part of muscle. Insert to hilt of needle (no silver from needle showing) to ensure delivery into muscle.
- Avoid pushing too far and dimpling skin.



#### How to administer the Comirnaty® vaccine - continued

#### Stabilise syringe and inject vaccine

- Move other hand to stabilise tip of syringe.
- Do not aspirate no need, as no large blood vessels here.
- Depress plunger and inject vaccine slowly.
- Ensure full dose given before withdrawing the needle.



#### Remove syringe and needle safely

• Pull needle out quickly and smoothly.



#### 9 Dispose of needle safely

- Immediately, dispose of needle and syringe safely in medical sharps container. Do not try to recap needle.
- · Avoid filling sharps container more than three-quarters of its capacity, or up to red line marked on container.

#### O Apply light pressure to injection site

- Apply gentle pressure with cotton wool/gauze. If bleeding tendency or on anticoagulants, apply prolonged pressure to site after injection.
- Avoid rubbing injection site.

#### 11 Apply surgical tape

- Apply surgical tape to hold cotton wool in place.
- Ask client to stay seated for a few minutes to avoid risk of injury from fainting while you complete records.



#### 12 Record and observe

- Complete vaccination card and give to patient.
- Advise client about need for further doses:
- If adult client (≥18 years old) and this is the 1st injection of the two Comirnaty® doses, inform client of return date for second vaccination.
- If Immunocompromised¹ adult client, advise that a 3rd dose, at least 28 days after the 2nd dose is to be expected.
- If adolescent (12-17 years old), advise that only 1 dose is currently needed. .
- Give client a post vaccination information leaflet.
- Record in EVDS/Vaccination Site data sheet.
- Ask client to remain for observation for at least 15 minutes after vaccination. If client known with severe allergies, observe for longer (30 minutes).



Immunocompromised individuals applies to those 18 years and older and includes the following: HIV positive clients with a CD4 count less than 200 within the last 6 months, those on long-term high dose oral steroid therapy or systemic biologics for autoimmune conditions; those with cancers involving their bone marrow/blood; those who have had organ or bone marrow transplants; those without a spleen, those on long-term renal dialysis; and those that have a moderate to severe Primary Immunodeficiency Disorder (PID).

# How to draw up Janssen® vaccine

#### Clean hands

- Follow an aseptic technique.
- · Clean hands well before vaccine preparation, between patients or at any time if hands become soiled.



#### 2 Bring vaccine to room temperature

• Remove vaccine from refrigerator/cooler box and allow to come to room temperature for 15-30 minutes.



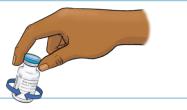
#### 3 Check and inspect

- Check:
- Correct type of vaccine (concentration)
- Expiry date on vaccine
- Inspect:
- Check the colour: liquid should be colourless or slightly yellowish.
- Check the clarity: liquid should be clear to slightly shiny and free of visible/solid particles.
- Check that vial has no cracks, abnormalities or evidence of tampering.



#### 4 Swirl vial to mix

- Mix contents before each draw: gently swirl vial in an upright position for 10 seconds.
- Do not shake!



#### 5 Clean stopper and allow to dry

- Open: flip off blue plastic cap without touching rubber stopper.
- Wipe rubber stopper with an alcohol swab for each dose drawn up.
- Allow to dry before inserting needle.



#### How to draw up the Janssen® vaccine - continued

#### 5 Draw up

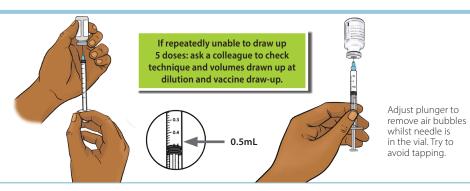
#### Choose appropriate needle length

- Use a light blue 23G x 1" (25mm) needle unless client is obese. If obese, use instead one of the following: -Black 22G x 1¼" (32mm) or blue 23G x 1½" (38mm).
- Attach to vaccine syringe (1mL or 2mL syringe). Ensure needle attached securely.
- Carefully uncap.



#### Withdraw vaccine and remove air bubbles

- Hold vial steady on flat surface and insert needle into rubber stopper. Then pick up vial and syringe and turn upside down to withdraw.
- Withdraw 0.5mL of Janssen® COVID-19 vaccine.
- Adjust plunger to remove air bubbles whilst needle is still in the vial to avoid loss of vaccine. Try to avoid tapping syringe or vial.
- When drawing up 5th dose: insert needle into rubber stopper at an angle to allow access to vaccine in corner of vial.
- If amount of vaccine remaining in vial cannot provide a full dose of 0.5mL, mark and discard vial and any excess volume.



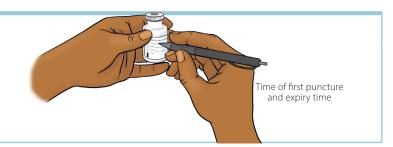
#### 8 Do not change needles

- Do not change needles. Use the same needle that you have drawn up the dose to administer vaccine.
- Never leave a needle in the vaccine vial between drawing up doses.
- If the vaccine is not administered immediately after drawing it up, carefully recap the needle.



#### Record time of first puncture and new expiry time

- Record the date and time the vial should be discarded on the vial label. After first puncture, vaccine (vial or filled syringe) can be held:
- In refrigerator (2-8°C) for up to 6 hours.
- At room temperature (up to 25°C) for up to 3 hours.
- Discard if vaccine is not used within this time.
- Preferably, use immediately after first puncture.



# How to administer the Janssen® 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.

#### Position yourself well

- If not done already, complete pre-vaccination health check 5.
- Protect yourself: sit or stand sideways-on to client. Check that client's mask is covering his/her nose and suggest client looks straight ahead.
- Lower your chair if possible so eye level with injection site.



#### 2 Check contents of syringe

- Check contents of syringe:
- Correct dose 0.5mL
- Colourless slightly yellowish fluid

- No particles
- No discoloration



#### 3 Expose injection site fully

- Ask client to expose his/her non-dominant arm (the one s/he does not write with). If possible, ensure whole shoulder and upper arm can be seen.
- Injection site is usually on left arm unless client is left-handed or has a rash, bruise, tattoo, redness, swelling, or other medical condition (e.g. amputation) involving intended site, then use right arm instead.
- Document injection site on the EVDS if not left deltoid.
- Ask client to rest his/her left hand in his/her lap and relax arm.

#### 4 Locate injection site

- Find bony tip of shoulder (acromion process). Measure 2-3 fingers (3-5cm) below this.
- Use other hand to form a triangle below this.
- The injection site should be in centre of triangle in thickest part of deltoid muscle.
- Remember where this point is.

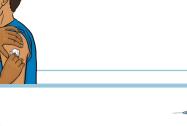


• Clean with cotton wool and water. Do not use an alcohol swab.





- Hold syringe firmly between the thumb and forefinger like holding a pencil.
- Gently stretch and support the skin with other hand. Avoid bunching the skin unless very low muscle mass 5 15.
- Insert needle at 90° angle to skin into thickest part of muscle. Insert to hilt of needle (no silver from needle showing) to ensure delivery into muscle.
- Avoid pushing too far and dimpling skin.







#### How to administer the Janssen® vaccine - continued

#### Stabilise syringe and inject vaccine

- Move other hand to stabilise tip of the syringe.
- Do not aspirate no need, as no large blood vessels here.
- Depress plunger and inject vaccine slowly.
- Ensure full dose given before withdrawing the needle.

#### Remove syringe and needle safely

• Pull needle out quickly and smoothly.

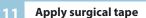


#### Dispose of needle safely

- Immediately, dispose of needle and syringe safely in medical sharps container. Do not try to recap needle.
- Avoid filling sharps container more than three-quarters of its capacity, or up to red line marked on container.



- Apply gentle pressure with cotton wool/gauze. If bleeding tendency or on anticoagulants, apply prolonged pressure to site after injection.
- Avoid rubbing injection site.



- Apply surgical tape to hold cotton wool in place.
- Ask client to stay seated for a few minutes to avoid risk of injury from fainting while you complete records.





#### 12 Record and observe

- Complete vaccination card and give to patient.
- Give client a post vaccination information leaflet.
- Advise client that this is a one dose per client regimen and s/he does not need to return for another dose unless immunocompromised<sup>1</sup>, in which case a 2nd dose is to be expected, at least 28 days after the 1st dose.
- Record in EVDS/Vaccination Site data sheet.
- Ask client to remain for observation for at least 15 minutes after vaccination. If client known with severe allergies, observe for longer (30 minutes).



'Immunocompromised individuals applies to those 18 years and older and includes the following: HIV positive clients with a CD4 count less than 200 within the last 6 months, those on long-term high dose oral steroid therapy or systemic biologics for autoimmune conditions; those with cancers involving their bone marrow/blood; those who have had organ or bone marrow transplants; those without a spleen, those on long-term renal dialysis; and those that have a moderate to severe Primary Immunodeficiency Disorder (PID).

# Manage injection difficulties

#### Fear of needles

- A fear of needles can lead to needle avoidance and vaccine hesitancy. Negative experiences may lead to future vaccine refusals. It can also lead to fainting episodes.
- Fear of needles is not limited to childhood. It can distress adults and may have a genetic link and tends to run in families.
- If a client reports a fear of needles, provide extra support and distraction techniques during the vaccination.
- Acknowledge this fear as phobic response. Avoid repeating words that may trigger further anxiety like 'injection', 'needle', 'jab', 'shot' 'prick'.
- Encourage the client to:
- Look away: encourage the client to look out the window or at the ceiling and focus on objects that won't induce anxiety.
- Breathe: encourage the client to take slow and deep breathes from the bottom of his/her chest.
- Tense muscles: if known to faint around needles, encourage client to tense leg, arm and tummy muscles during vaccination. If client starts to feel faint, manage symptoms 516.
- Imagine: encourage client to visualise him/herself elsewhere that is pleasing to him/her like the beach, hiking, reading, spending time with friends.
- Find a role model: if client has come with a trusted friend or family member who doesn't fear needles ask them to go first so client watch their reaction.



#### **Elderly and low BMI**

If low muscle mass in elderly client or client with low BMI, it is acceptable to bunch up the deltoid muscle before administering IM injection.

#### Needle hits bone

• If needle hits bone during injection, pull needle back slightly and then inject.

#### Needle touches nerve

• If client complains of sudden burning, shooting pain during injection, it is likely needle too close to a nerve: remove needle and try again being careful to locate correct injection site using landmarks.

#### Vaccine leaks from injection site

- If vaccine leaks from injection site
- If vaccinator thinks most of dose leaked out of injection site, then revaccinate at same visit using a different injection site. Use same dose, as initial dose considered an invalid dose.
- If vaccinator thinks most of dose remained in injection site, then that dose can be considered a valid dose.



Avoid inserting needle too far, causing a dimple in the skin, as more likely to hit bone.

# Disposal of empty used vaccine vials

Once all the full doses have been drawn up, dispose of the vaccine vial appropriately:

- Using a pen or permanent marker, deface vial by scratching over the label taking care not to cover the batch number and expiry date.
- At the end of the day, discard vials:
- If vial empty, discard into yellow sharps container.
- If residual vaccine in vial, discard into pharmaceutical waste.
- · Avoid filling sharps container more than three-quarters of its capacity, or up to red line marked on container. Clearly mark box with "COVID-19".







# **Observation post vaccination**

- Observe client for at least 15 minutes after vaccination. If client known with severe allergies: observe for longer (30 minutes).
- Check for signs or symptoms that may indicate an adverse reaction:

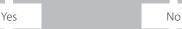


Collapse →17

#### Feeling faint/cardiovascular symptoms

- Light-headedness or dizziness
- Feeling warm or cold
- Sweating
- Palpitations
- Nausea
- · Visual 'blurring' (darkening or white-out of vision)
- Reduced hearing ('whooshing' noise)
- Pallor reported by onlookers
- Ask client to lean forward and his/her head between knees, or lie down flat, for several minutes until feeling better.
- Loosen tight clothing undo buttons around neck, loosen tie/belt.
- Apply a cool cloth to his/her face or neck.
- · Calmly reassure client.

Do symptom/s improve quickly (minutes)?



Faintness likely Observe until symptoms resolve.

#### Skin/mucosal symptoms





- Itchiness
- Skin rash (hives)
- · Swelling of eyes, lips, tongue, face, or hands/feet)
- Nasal congestion

#### Respiratory symptoms



- · Wheeze or cough
- Throat tightness
- Stridor
- Shortness of breath
- Hoarseness
- Oxygen sats < 92%
- Trouble swallowing
- Drooling

#### Gastrointestinal symptoms



- Nausea
- Vomiting
- Diarrhoea
- Cramps

Decide when to treat for anaphylaxis Are signs or symptoms generalised: are 2 or more body systems involved?

Yes No. Does patient have generalised urticaria (raised, red rash/hives) involving the whole body? Yes Yes Treat as anaphylaxis <del>→</del>18.

No. Are signs or symptoms serious or life-threatening, even if only single body system (hypotension, respiratory distress, or significant swelling of the tongue or lips)?

No

- If isolated rash (raised, red rash in client who is otherwise well without other symptoms):
- Monitor for 30 minutes to pick up any other symptoms:
- If no other associated symptoms and client remains well, **pseudoallergic self-limiting** rash likely: reassure client and advise to take oral antihistamines.
- Advise to seek urgent health care if any of the following develop: swelling of face, lips or tongue; difficulty breathing, abdominal pain, nausea or vomiting.
- If other symptoms: discuss with doctor/specialist urgently.
- If in doubt, treat as anaphylaxis 518.



# **Collapse following vaccination**

#### Collapse

- · Call for help.
- Lie client on his/her back and raise legs.
- Check response: if unresponsive, check circulation, airway and breathing.
- If no pulse/not breathing, start CPR 5 PACK Adult.
- If breathing and pulse present: assess timing of collapse and duration of loss of consciousness and check breathing, pulse and BP:
- Collapse occurred suddenly, at the time of injection (before, during or immediately after).
- · Loss of consciousness usually lasts 20 seconds to 1 minute and is relieved by lying client down and raising legs.
- BP: briefly low but rapidly normal again.
- Pulse may be slow.
- Breathing usually normal but may be rapid, deep (hyperventilation).
- No other signs or symptoms present.

#### Fainting episode likely

#### Management:

- If not already done, lie client flat and raise legs.
- Loosen any tight clothing: undo buttons around the neck, loosen tie/or tight belt.
- Apply cool cloth to face/neck.
- Calmly reassure client explain what happened and assure them that they will be alright.
- Check for any other injuries they may have sustained falling.
- Stay with the client until they are fully recovered. Client should remain lying with legs up until feeling better.

#### Refer if:

- · Head injury.
- Known with a heart condition or other serious illness.
- Client has unusual symptoms, such as chest pain, shortness of breath, confusion, blurred vision, or difficulty talking.

#### Report:

- Complete NDoH Case Reporting Form (CRF) for Adverse Events Following Immunisation (AEFI) and report to sub-district or district office and provincial EPI manager within 24 hours 523.
- Replace all medications/equipment used and seal emergency kit.

- Collapse occurred 5-10 minutes after the injection (could occur up to 1 hour after).
- Loss of consciousness is not brief and not relieved by lying client down and raising legs.
- BP < 90/60 and remains low
- Pulse > 120
- Breathing: may have wheeze, stridor, cough
- Other signs and symptoms (like swelling or rash) present.

Treat as anaphylaxis  $\rightarrow$  18.

# **Treat suspected anaphylaxis**

#### Manage and refer urgently:

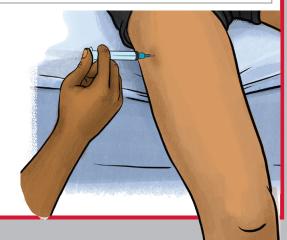
Priority management

- Lie client down and raise legs.
- Call for help: ask colleague to inform supervisor and doctor, if available. Ask colleague to call emergency medical services and report suspected anaphylaxis.
- Give immediately adrenaline IM into mid outer thigh (see table). Repeat every 5 minutes if needed. Adrenaline is the vital part of anaphylaxis management.
- If signs of shock (cold peripheries, prolonged capillary refill time, tachycardia or low BP) present: give sodium chloride 0.9% 500mL IV rapidly. Repeat until signs of shock have resolved. Stop if breathing worsens.
- Give oxygen, if available, 8-10L/min via facemask or up to 100% oxygen, as needed.

#### Adjunctive treatment:

- 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 (if < 16 years old, give 15mg IM) and hydrocortisone 200mg IM/slow IV (if < 16 years old, give 100mg IM/slow IV).
- Refer all cases of suspected anaphylaxis.
- If delay in referral: take blood within 2 hours of symptom onset, if possible, to confirm vaccine-related anaphylaxis (tryptase sampling):
- Collect blood in 2x yellow topped tubes (SST) and send with client on referral. If delay > 4 hours, store on ice.

Adrenaline (1:1000 solution) dosing									
Age	Injection (1mg/mL)	Weight							
12 year old	0.3mL	25-40kg							
≥ 13 years old	0.5mL	> 40kg							



#### Report:

- Complete NDoH Case Reporting Form (CRF) for Adverse Events of Special Interest (AESI) and report to sub-district or district office and provincial EPI manager within 24 hours 5 21.
- Replace all medications/equipment used and seal emergency kit.

May 2021

May 2021

# Just had the COVID-19 vaccine? Well done and thank you!

Mild side effects are common in the first 3 days. Here's what to look out for.











Headache Fatigue M

Fatigue Muscle aches Nausea

- Side effects can start around 6 hours after the vaccine and usually resolve in 2-3 days. If needed, treat pain and fever with paracetamol.
- Side effects may be more noticeable if you are young, had COVID-19 before or after the second dose of a 2-dose vaccine course.

These side effects show your body is building an immune response. The technical term for this is 'reactogenicity'. If you do not get side effects it does not mean that your body is not building an immune response.

- If your side effects are severe or last longer than 3 days, contact your healthcare provider or the Western Cape call centre.
- If any of the following symptoms develop within a month of vaccination, go to your nearest emergency centre:
- New-onset severe headache especially if with blurred vision, vomiting, weakness on one side of the body or difficulty speaking.
- Severe abdominal pain that does not go away.
- A rash of tiny red spots around the site of injection.
- A painful or cold leg.
- Chest pain or shortness of breath.

# Extremely rare side-effects affect 1-7 people per million vaccinated

They include a severe allergic reaction called anaphylaxis (within minutes to hours) and a rare form of blood clots (between 4 days and 3 weeks).







# Keep your vaccine card safe.

- This is your proof of vaccination.
- Keep your follow-up appointment if you have one.

Some vaccines are given in two doses (for example Pfizer-BioNTech (Comirnaty™) COVID vaccine). The second dose is important to boost your body's immune response to the vaccine and help its protective effect last longer.

#### You might still get COVID-19. Here's why.

- You cannot catch COVID-19 from the vaccine as there is no live coronavirus in it.
- It is still possible to get COVID-19 as no vaccine is 100% effective.
- You might have caught COVID-19 before being vaccinated (it can take up to 2 weeks before COVID-19 symptoms start).
- You might catch it within the first 2 weeks after being vaccinated while your immune system is being trained up to fight COVID-19.



# After vaccination, don't confuse vaccine side effects with COVID-19 symptoms!

- If your fever lasts more than 2 days or you develop a continuous cough, sore throat, or changes in your ability to taste or smell after your vaccination, you may have COVID-19.
- Isolate yourself and arrange to get a COVID test. Contact your healthcare provider or the Western Cape call centre.

Even if you do get COVID-19, you are very unlikely to get severely ill or die from COVID-19.

#### Western Cape call centre: 0860 142 142



# We still don't know if the vaccine will stop the spread. Don't forget COVID-19 prevention!

- · 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.
- Wash or sanitise your hands regularly.
- As a healthcare worker, continue to wear standard PPE at work.



We are not safe until we are all safe.







# **Symptoms post vaccination**

Note: no routine follow up visit is required. Use this page to manage clients who actively seek care. Report adverse events as an Adverse Event Following Immunisation (AEFI) 🗅 23.

#### Give urgent attention to the client who has had a COVID-19 vaccination within the last month and any of:

- · Decreased consciousness
- Seizures (fits)
- New neurological symptoms (weakness on 1 side, sensory loss)
- Respiratory rate ≥ 30 or difficulty breathing
- BP < 90/60

Refer urgently.

- Temperature ≥ 38°C in elderly or frail client who is not able to take oral fluids well
- Blurred vision
- Severe and/or persistent headache (usually > 4 days after vaccine)
- Persistent severe abdominal or back pain
- Chest pain
- · Severe leg pain or swelling of leg
- New or easy bleeding/bruising

# Approach to the client not needing urgent attention Does the client have fatigue, muscle aches, mild headache, feel feverish, or chills? Yes Check client's temperature: Does client have difficulty breathing a new cough,

sore throat or a change in taste or smell?

≥ 38°C

How many days since client received the COVID-19 vaccine?

Yes

No

2 days or less

More than 2 days

2 days or less Does client have difficulty breathing, a new cough, sore throat or a change in taste or smell?

If temperature > 40.5°C, cool the client down¹.

No

#### **COVID-19 vaccine reactogenicity**

(immune response) likely

- Reassure this is a common immune response.
- Give paracetamol 1g 6 hourly for up to 5 days, if needed.
- Advise to return:
- If symptoms get worse.
- If fever lasts more than 2 days since vaccination.
- If headache, muscle aches or fatigue last more than 1 week after vaccination.

#### COVID-19 infection likely

Client needs a COVID-19 test.

Yes

- Advise to isolate from others while waiting for the test result.
- Reassure that the COVID-19 vaccine does not affect PCR or antigen test reliability.
- Explain that it is still possible (though less likely) to get COVID after being vaccinated and that the risk of severe COVID-19 is extremely low.

COVID-19 positive COVID-19 negative

Manage using PACK COVID-19.

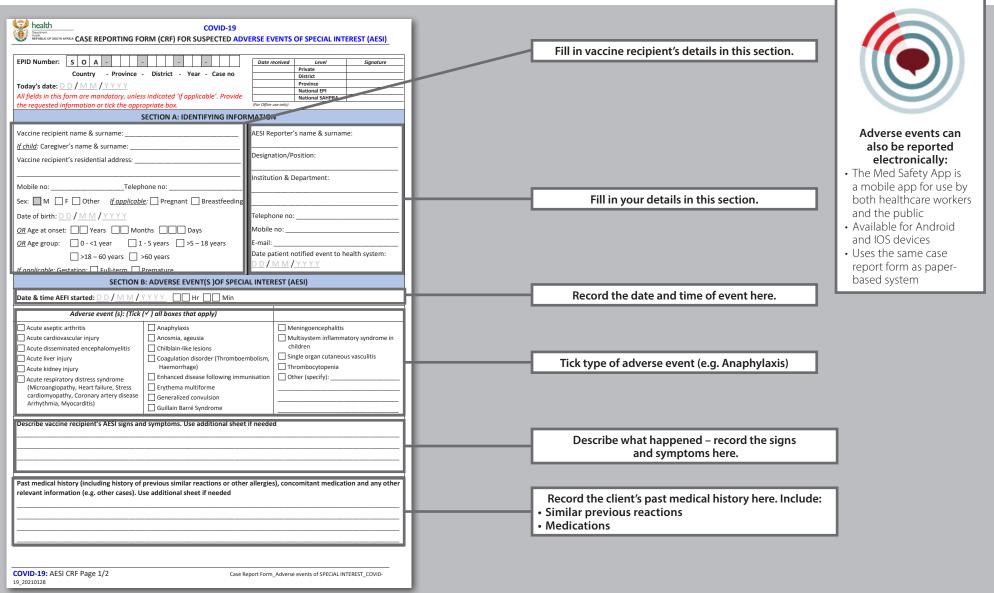
• If local reaction (redness, pain or swelling) at injection site:

- Reassure that reactions usually resolve within 3 days.
- Advise to apply ice packs/ cold cloth.
- Discuss/refer if any of:
- Severe pain
- Blisters
- Enlarging redness (≥ 5cm)
- Red swelling with fluctuant centre, abscess likely
- If new joint pain in shoulder of vaccine arm, discuss/refer to exclude Shoulder Injury Related to Vaccine Administration (SIRVA).
- If other symptoms:

Assess cause of symptoms further using PACK Adult.

# How to complete an AESI form page 1

- · AESI is an 'Adverse Event of Special Interest' and refers to certain pre-chosen medically important events that may have potentially been caused by the vaccine product.
- The list of these events is on page 1, Section B of the form, and includes anaphylaxis, thromboembolism, convulsions, Guillain barre syndrome.

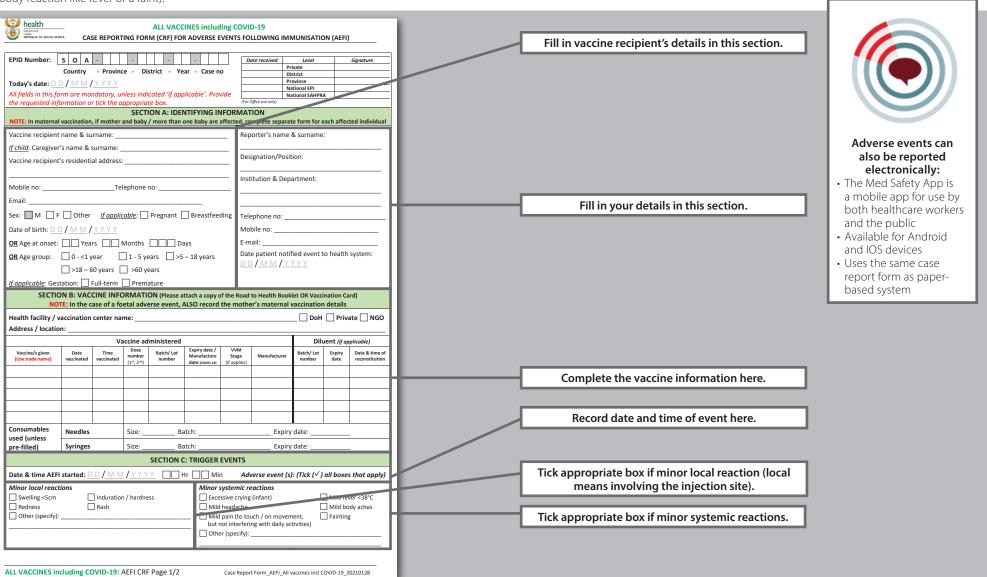


# How to complete an AESI form page 2

Patient name &	surname: _				E	PID Numbe	r:			
	CECT	ON C. PP	ELINAMA	V ACCTOCA	IENT AND	ACTIONS AT	THE TIME OF	DEDORT		
SECTION C: PRELIMINARY ASSESSMENT AND ACTIONS AT THE TIME OF REPORT  Did this AESI cause? Death Hospitalisation Disability Life threatening Other important medical events (Specify):										
Outcome at the time of reporting: Recovering Recovered fully (no complications) Not Recovered Unknown										
Recovered v	Recovered with sequelae; Specify:									
☐ Died → Dat	e of death: D	D/MM	<u>/////</u>	<u>Y</u> → F	ull autopsy	done: Y	es 🗌 No 📗	] Unknown	ı	
If NO, verbal au	topsy done?	Yes	No							
Hospitalisati	on 👈	Date of a	dmission:	DD/M	<u> </u>	Y				
	<b>→</b>	Name of	hospital:				Hospital nun	nber:		
Did this person	receive a CO\	/ID-19 va	ccine?	Yes N	o 🗌 Unkn	own <b>If Yes, C</b>	omplete Sect	tion E belo	w	
	SECTION	D: VACC	INE INFO	RMATION	l (Please at	tach a copy	of the Vaccin	ation Reco	rd)	
Health facility /	vaccination c	enter na	me:					DoH	Priva	ate NGO
Address / locati	on:									
		COVID-		e administ	T	Funday 4-4- 1		Dil	uent (if ap	i i
Vaccine given (Use trade name)	Manufacturer	number (1st, 2nd)	Date vaccinated	Time vaccinated	Batch/ Lot number	Expiry date / Manufacture date	Immunisation record number	Batch/ Lot number	Expiry date	Date & time of reconstitution
		(1", 2")				date				
Consumables	Needles		Size:		atch:		Expiry			=
used	Syringes of Non-COVI	D10	Size:		atch:	/1 les edditis	Expiry			
Details	or Non-COVI	D19 vacc	ines recen	vea in the	iast 1 year	(USE additio	nai page ii tn	ere are mo	ore vaccii	nesj
ļ										
Consumables used (unless	Needles		Size:	Ba	atch:		Expiry	date:		=
pre-filled)	Syringes		Size:		atch:		Expiry			-
SECTION E: FIRST DECISION MAKING LEVEL TO COMPLETE  For ALL AESI cases including COVID-19 vaccinated and unvaccinated										
AEFI confirmation								lea		
AEFI COMMINIALIO	on initiated: [	res _	_					ΥΥ		
Date investigation planned: DD / M M / Y Y Y Y  Is this AESI linelisted? Yes No										
For COVID-19 vaccinated cases: Field investigation planned with AESI investigation form? Yes No										
If YES, date planned: DD / MM / YYYYY  SECTION F: NATIONAL LEVEL TO COMPLETE										
Date report rec	eived at Natio	nal Leve			1	I worldwide				
	civeu at ivalit	niai Leve	. <u>v v / 1</u> V	1 IVI / 1 T	AES	ı worlawide	unique ID:			
Comments:										
	IMPORTANT: Email this form within 24 hours to AEFI@health.gov.za									
	AND copy the EPI District Surveillance Officer									
COVID-19: AESI	CRF Page 2/	2				Case Report F	orm_Adverse eve	ents of SPECIA	AL INTEREST	T_COVID-

# How to complete an AEFI form page 1

- AEFI is 'Adverse Event following immunisation'.
- Fill out this form if a client develops any adverse reaction or event after receiving the vaccination. Events can be minor or severe and local (involving the injection site) or systemic (involving a whole body reaction like fever or a faint).



# **How to complete an AEFI form page 2**

Patient name & surname:	EPID	Number:		Tick appropriate box if severe local reaction involving the injection site.
Severe local reactions	Severe systemic reactions			
Pain, redness and/or swelling >3 days	Hospitalisation	☐ Death	Collapse/ shock-like state	
Swelling >5cm	Fever ≥38°C	Thrombocytopenia	Anaphylaxis	
Swelling beyond nearest joint	Seizures Febrile Afebrile	Encephalopathy	Sepsis	
Lymphadenitis	Toxic shock syndrome	☐ Vomiting	Diarrhoea	
Abscess	Other (specify):			Tick appropriate box if severe systemic reaction involving the whole body.
Necrosis at vaccination site	Foetal adverse reactions in the case		_	Tick appropriate box is severe systemic reaction involving the whole body.
Other (specify):	Decreased FHR variability	Decreased foetal move	_	
	Onset of preterm labour, assessed			
	Foetal anomaly assessed to be po with pre-pregnancy or 1st trimeste		congenital anomaly reasible	
	☐ Foetus affected by maternal imm		lministered to mother)	
NOTE: Severe or serious	adverse event > Immediately no	tify District Office for Cas	e Investigation	
Describe vaccine recipient's or caregive	ver's concern (AEFI signs and sympt	oms). Use additional she	et if needed	
				Describe in words what the concern in this case is .
Were there any other similar AEFIs re	ported in the facility in the past 30	days? Yes No (If y	res, specify)	Describe any other similar remarks
				Describe any other similar reports.
	SECTION D: PAST MEDICAL	. HISTORY		
Past medical history (including history	of previous similar reactions or ot	her allergies), concomita	nt medication and dates of	Record the client's past medical history here. Include:
administration (exclude those used to	·			Similar previous reactions
				Medications
SECTION E: PREL	IMINARY ASSESSMENT AND AC	TIONS AT THE TIME OF	REPORT	
Is this event a serious AEFI? Yes		•		Indicate one or more of the consequences of the AEFI
☐ Death ☐ Hospitalisation ☐ Disa	bility 🗌 Life threatening 🔲 Cong	enital anomaly in off-sprir	g of vaccine recipient	i.e why you consider it a serious reaction.
Comments:				, ,
SECTION F: WHAT WAS THE	OUTCOME OF THE CASE FOLLO	WING THE SUSPECTED	AEFI in VACCINEE?	
Recovering Recovered fully (n	o complications) 🗌 Not Recovered	d Unknown		
Recovered with sequelae; Specify:				
☐ Died → Date of death: DD/M	✓ / Y Y Y Y → Autopsy: ☐ Ye	s 🗌 No 🔲 Unknown		Record what the outcome of the AEFI was at time of reporting.
☐ Hospitalisation → Date of a	admission: $DD/MM/YYYY$			
→ Name of	hospital:	Hospital numbe	r:	
SECTION	ON G: FIRST DECISION MAKING	LEVEL TO COMPLETE		This section is for the first decision-making level to complete (Facility/sub-
Case investigation needed: Yes	No District 0	Office notified: Yes	No	district/district level. If serious or severe AEFI, investigation required.)
Date investigation planned: D D / M		ate notified: DD/MM		district/district level. If serious of severe ALTI, filvestigation required.)
	SECTION H: NATIONAL LEVEL T			
Date report received at National Leve				
Comments:		· · · · · · · · · · · · · · · · · · ·		This section will be completed at National level.
IMPORTANT:	Email this form within 24 h	ours to AEFI@healt	h.gov.za	6 1 1 1 1 1 1 1 1 1 1 1 1
	ID copy the EPI District Sur			Scan and email completed forms within 24 hours to
<del></del>				AEFI@health.gov.za and cc in district level coordinators (find contact
				details in WC Circular H22/2021 - 01 March 2021).
ALL VACCINES including COVID-19:	AEFI CRF Page 2/2	Case Report Form_AEFI_All vacci	nes incl COVID-19 20210128	

# **Acknowledgements**

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# Practical Approach to Care Kit: Vaccine

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