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# Understanding SA's vaccine rollout plan: Where do you fit into #VaccineRolloutStrategySA

In his <u>11 January National Address</u>, President Cyril Ramaphosa made it clear that South Africa, like countries the world over, is undertaking a massive COVID-19 vaccination programme. What will the process look like? Who will be vaccinated first and what are we hoping to achieve?

"Vaccines offer to the peoples of the world a means to control the coronavirus pandemic. A person who is vaccinated has a much-reduced chance of becoming ill and dying from COVID-19," explained President Cyril Ramaphosa.

"When enough people are vaccinated, we will reach what is known as 'herd immunity' or 'population immunity'. This is when a significant number of people in the of the population have developed immunity against the virus to provide indirect protection to those who aren't immune, bringing the spread of the virus under control. While the actual level needed for herd immunity is not known, our scientists estimate that we will likely reach herd immunity once around 67% of our population are immune. This amounts to around 40 million people in South Africa."

• Read <u>the latest letters</u> "From the desk of the President" in which we are updated regularly on the country's national vaccine rollout programme.

#### South African healthcare workers first to be vaccinated

To date, several COVID-19 vaccines have published evidence from phase-three clinical trials and received approval for emergency use in many countries. These include the Johnson & Johnson, Pfizer-BioNTech, Moderna and Oxford-AstraZeneca vaccines.

- South Africa received its first batch of vaccines one million Oxford-AstraZeneca vaccines on 1 February. This vaccine was bought by our government as it showed an average of 75% efficacy against the strain of COVID-19 prevalent during the first wave of infections, in 2020.
- Unfortunately, new trial data (made public on 7 February) from the South African arm of the Astra-Zeneca vaccine trial of 2000 participants showed only a 22% efficacy against mild to moderate COVID-19 disease with data not yet available to assess efficacy against severe disease. This resulted in the government halting the roll-out of the Astra-Zeneca vaccine while awaiting more clinical efficacy data.
- At the same time, the results of the Johnson and Johnson vaccine trial were also released and they showed a slightly reduced efficacy in protecting against mild-to moderate disease dropping from 72% to 64% but showed an 82% efficacy in protecting against severe disease. A 100% protection against death was also reported.
- The South African Government guided by the Ministry of Health therefore decided to initiate a roll-out plan starting with healthcare workers with the J7J single dose vaccine under a clinical trial setting while awaiting SAHPRA approval for the formal roll-out. This was initiated on 17 February 2021.
- Zoliswa Gidi-Dyosi, a Cape Town nurse became the first South African to receive the Johnson & Johnson Covid-19 vaccine at the Khayelitsha District Hospital.
  - "Why is the Johnson & Johnson vaccine a good first choice for South Africa's National Vaccination Programme?" "How is the vaccine given and when does protection start? "Find out the answer to this question and more by accessing this <u>FAQ document</u> compiled by Sisonke, the SAMRC and the National Department of Health."



- South Africa has also secured 9 million vaccine doses from Johnson & Johnson and 20 million doses from Pfizer Inc., which are expected to arrive from May and June respectively.
- South Africa is also in negotiations to acquire the Russian Sputnik vaccine (interim Phase 3 study results show 91% efficacy, 21 days after the first dose of vaccine), the Chinese Sinopharm vaccine, the US Moderna vaccine and will explore acquiring the Novavax vaccine (Phase 3 clinical trials show 89.3% efficacy against the new British variant of the COVID-19 virus. In the South Africa Phase 2b clinical trial, 60% efficacy (95% CI: 19.9 80.1) for the prevention of mild, moderate and severe COVID-19 disease was observed in the 94% of the study population that was HIV-negative.

#### What are key considerations in the selection of COVID-19 vaccines for South Africa's people?

"There are six key considerations in our government's selection of vaccines for people in South Africa," explains Dr Nematswerani.

#### The key considerations are:

- 1. The availability of a particular vaccine
- 2. The safety, efficacy and quality of the vaccine as assessed by the South African Health Products Regulatory Authority (SAHPRA)
- 3. The ease of use and schedule (including the number of doses needed)
- 4. The stability of the vaccine during storage and distribution
- 5. The supply of the vaccine and sustainability of this supply
- 6. The cost of the vaccine

#### What steps need to be followed before a COVID-19 vaccine is rolled out?

Watch this 1-minute sacoronavirus.co.za video to find out more.

#### Which body considers the safety of and approves the use of the vaccines in South Africa?

The South African Health Products Regulatory Authority (SAHPRA) must approve all vaccines before they can be used in South Africa.

#### Who will coordinate the COVID-19 vaccine roll-out strategy in South Africa?

Our government will source, distribute and oversee the rollout of the COVID-19 vaccine. Government is the sole purchaser of vaccines and will distribute them to provincial governments and the private sector. A national register for COVID-19 vaccinations will also be established. All thosevaccinated will be placed on a national register and given a vaccination card. A national roll-out committee will oversee the vaccinations in both the public and private sectors.

#### Phases of South Africa's COVID-19 vaccine roll-out plan

The South African government is negotiating with several vaccine manufacturers. By 11 January 2021 our government had secured 20 million doses to be delivered mainly in the first half of the year.

- Did you know that our government is working closely with the South African Health Products Regulatory Authority (SAHPRA) to make sure there is no delay in approving the vaccine for use?
- South Africa has also reached an agreement with the COVAX Facility to secure vaccines to immunise 10% of the population. These doses are expected at the beginning of the second quarter of the year and we continue to work with various pharmaceutical companies to make sure we immunise at least 67% of the population by the end of 2021.



## The vaccine will be given out in 3 PHASES:



### #VaccineRolloutStrategySA

Credit: sacoronavirus.co.za

- Phase 1 will <u>prioritise 1.2 million frontline healthcare workers</u> for vaccination. Healthcare workers will be vaccinated at district-level public and private hospitals, by mobile teams that move between facilities and at dedicated vaccination centres, such as community pharmacies.
- Phase 2 will prioritise:
  - a. 2 500 000 essential workers (teachers, police officers, miners, municipal workers and other frontline personnel, including people who work in security, retail, food, banking and also home affairs, border control and port services).
  - b. 1 100 000 people in institutions, like care homes, old-age homes, shelters and prisons and people who work in hospitality and tourism as well as in educational institutions.
  - c. 5 000 000 people over 60 years of age.
  - d. 8 000 000 people over the age of 18 who have co-morbidities. This includes people who have either uncontrolled diabetes, chronic lung disease, poorly controlled cardiovascular disease, renal disease, HIV, tuberculosis (TB) or obesity.
- Phase 3 will involve vaccinating the remaining adult population of approximately 22.5 million people.

#### Achieving population immunity in South Africa with the help of COVID-19 vaccines

"By the end of phase three it is expected that 40 million South Africans (representing 67% of the population) will have been vaccinated," explains Dr Nematswerani. "At this level of vaccine penetration, we hope to achieve population immunity."



#### What does population immunity mean?

Population immunity is reached when a large proportion of the population develops immunity to a disease, like COVID-19. This makes the spread of this disease from person to person unlikely and gives indirect protection against COVID-19 to people who are not immune to the disease.

According to the World Health Organization (WHO), population immunity, is the indirect protection from an infectious disease that happens when a population is immune - either through vaccination or immunity developed through previous infection.

The WHO advises that population immunity against COVID-19 should be achieved by protecting people through vaccination, not by exposing them to the virus that causes the disease.