

The introduction of a COVID-19 Vaccine in South Africa

Nothing about us without us!

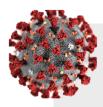
A NATIONAL CONSULTATION

25<sup>TH</sup> JANUARY 2021









## What to expect...

#### What is the purpose of this consultation?

Communications and Demand Creation – understanding what the public needs before making a decision to use a vaccine

Poll Questions

#### COVID in South Africa

- Current Situation
- Transmissions Dynamics are Rapidly Changing
- O What puts you at risk?
- Transmission Dynamics

#### Vaccine 101

- Our immune response
- Vaccine Development to Delivery

#### COVID-19 vaccine landscape

- O What are the options?
- O How will South Africa choose a vaccine?
- O What can we expect in SA?
- Session Questions











## Purpose of this consultation







# V

## What is the purpose of this consultation?

## **Learning & Sharing**

#### The purpose:

We want to have conversations with key community leaders and civil society groups in South Africa to understand better understand what potential challenges may be expected and what key issues we need to consider in terms of communications, engagement and mobilization of communities for the rollout of a COVID-19 vaccine

- **You** represent one of the key groups of people who will be targeted for vaccine introduction
- **You** serve as a voice for these groups for us to understand what needs to be considered when designing communications and demand creations strategies and to highlight issues around the best places and approaches in communities to reach those at risk of COVID-19
- The information we get from this consultation will be shared with the National Department of Health to help with the development of vaccine rollout plans





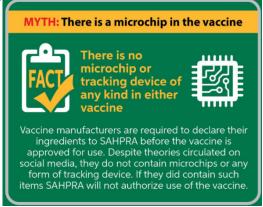


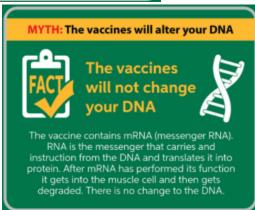


## What is the purpose of this consultation?



## **Communications and Demand Creation**





- There is great public and media interest in a vaccine
- It is important to use this moment to ensure that communications support knowledge, awareness and uptake of a COVID-19 vaccine for those who want it.
- It is very important to recognise concerns, fears and hesitancy in communities when when planning for COVID-19 vaccine introduction.
- Communicating about and creating demand for a vaccine must be situated in increasing knowledge, raising awareness, and increasing the population's confidence in vaccination







## POLL QUESTIONS

What support do you need for your sector to engage meaningfully with the COVID-19 vaccine roll out? (Funding, information, training etc)

Who do you rely on for information on COVID-19

What COVID-19 related issue would you like more information/training/engagement on to support your work?

Would you take a COVID-19 vaccine?







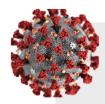


# COVID-19: Current Situation in South Africa

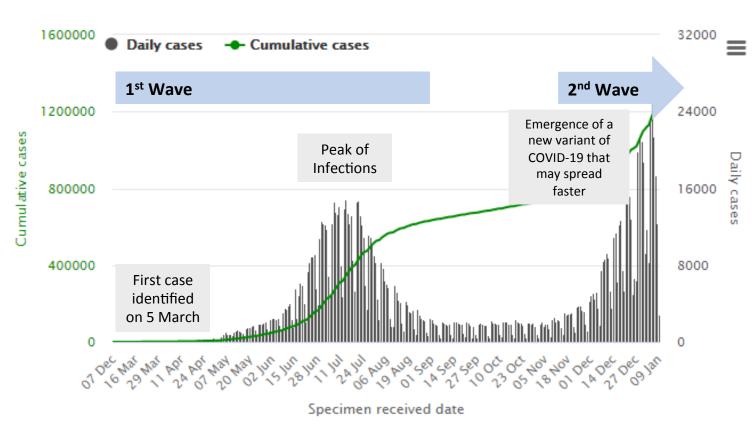








#### **Current Situation**



<u>10 Jan 2021</u>

Total Cases to Date

= 1 231 597

#### Recovered

= 966 368 (78,4%)

Total Deaths =

33 163

**Active Cases =** 

232 066

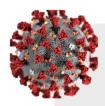
#### <u>Province Most</u> <u>Affected:</u>

KwaZulu Natal, Western Cape, Gauteng

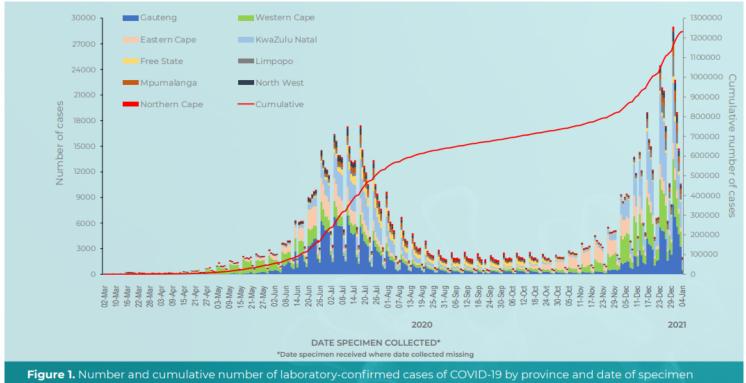








### Transmission Dynamics are Rapidly Changing:



**Figure 1.** Number and cumulative number of laboratory-confirmed cases of COVID-19 by province and date of specimer collection, South Africa, 3 March 2020- 9 January 2021 (n=1 231 597)

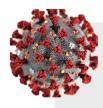
These are just snap-shots of a moment in time



African Alliance







## What puts you at risk?

#### **Outside Your Home:**

- Employment and type of employment
- Use of public transport
- Overcrowded/ poor ventilated workspaces
- Lack of access to water and sanitation

#### In Your Home:

- Overcrowded living space
- Lack of access to water and sanitation

#### Your Health:

- Age (being 60 years and older)
- Having a chronic condition like heart disease, diabetes, lung disease, etc.

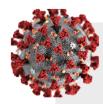






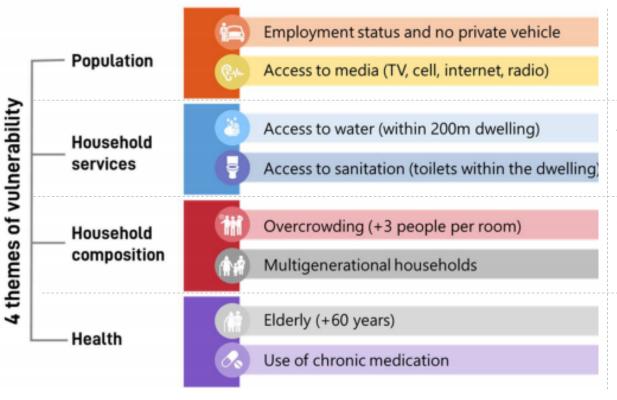






## Take Charles for example...



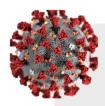


- Charles is an essential worker and provides cleaning services at the local hospital
- His wife is an informal trader at the taxi rank
- His family uses public transport daily
- There is a major water shortages in the area so he uses publicly provided water and sanitation services
- He lives in a one bedroom house with his wife & 3 grandchildren – aged 10-15
- His grandchildren attend school
- Charles is 60 years old
- Charles has diabetes for the past 10 years









## **Transmission Dynamics**

#### **Potential Exposures**



Charles and his family use an overcrowded taxi to work and school



Charles and his family use an **overcrowded taxi** to get home

#### Charles at Work

space

 High risk work environment with COVID positive patients
 Overcrowded lunch



#### Wife at Work

- High foot traffic in workspace
- No social distancing
- Use of communal toilet



#### **Kids at School**

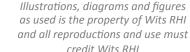
- Congregate setting 35 children/class
- Lack of social distancing in class and at break times
- Use of communal toilet



Charles and his family use communal water and sanitation services shared with the street

Charles and his family have had multiple exposures throughout the day, and could infect others and each other

**WE ARE ALL AT RISK** 









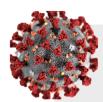


# Now lets learn about vaccines....

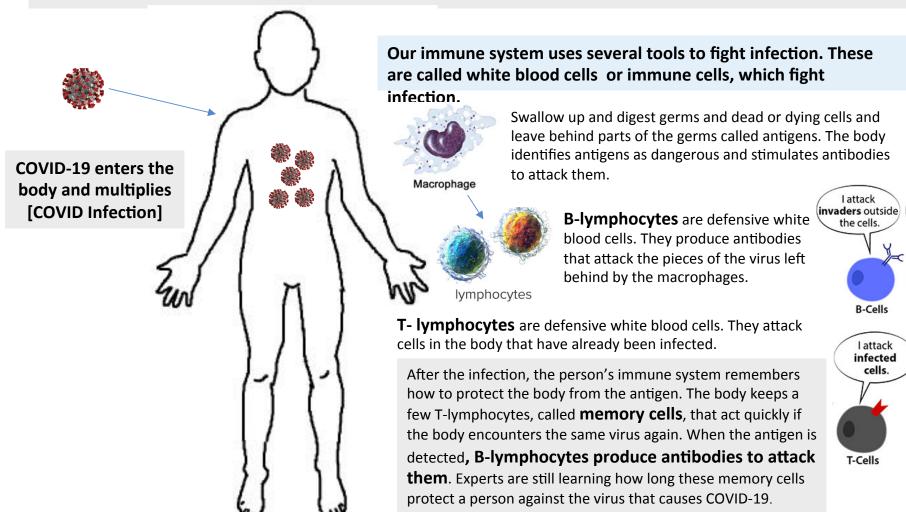








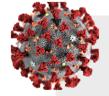
## Vaccine 101: Our Immune Response



WITS RHI

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## Vaccine 101: Development to Delivery

What is in a vaccine: vaccines contain weakened or inactive parts of a particular organism that triggers an immune response within the body. This weakened / inactive version will not cause the disease in the person receiving the vaccine, but it will prompt their immune system to respond.



#### **Pre-Clinical Stage: How will the vaccine work?**

Scientists try to find out what induces an immune reaction in your body (the right antigen). This can take up to **4 years.** 

Approved for Human Testing

Clinical Trials

PHASE 2

PHASE 3

Regulatory Approval & Licensure

Regulatory

After a positive phase 3 trial – an application is submitted to SAHPRA where the trial data is reviewed

.....

Safety

PHASE 1

Safety & Dose

Safety & Efficacy

To determine how

effective the

vaccine is

SAHPRA – South African Health Products Regulatory Authority -

monitoring, evaluating, investigating, inspecting and registering all health products. Ensures safety, efficacy and quality of products

t

**Aims** 

First time vaccine tested in humans to evaluate its safety and immune response

To determine the effective dose and expand on the safety information

300-3000

. . . . .

Participants Needed

**Time Taken** 

Weeks/Months

20-80

1-2 Years

100-300

3-5 Years

**Approved** 

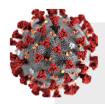
Need to Manufacture Product



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for Human

Testing

## Vaccine 101: Development to Delivery

What is in a vaccine: vaccines contain weakened or inactive parts of a particular organism that triggers an immune response within the body. This weakened / inactive version will not cause the disease in the person receiving the vaccine, but it will prompt their immune system to respond.



#### Pre-Clinical Stage: How will the vaccine work?

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PHASE 1

PHASE 2

PHASE 3

Regulatory Approval &

PHASE 4

Aims



This entire process was fast tracked without compromising on safety and quality of the product for the COVID-19 vaccine – with the discovery of the virus in December 2019, and now in 2021 the delivery of effective vaccines

Participants Needed

Time Taken

Weeks/Months

1-2 Years

3-5 Years

Manufacture Product

**Years** 

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## Vaccine 101: Development to Delivery

#### **Vaccine Readiness**

Post-Marketing Monitoring

A set of steps that need to be undertaken to prepare the health system and population for the rollout of a vaccine. These include:

Planning & Coordination

Regulatory Pathway

Prioritizing & Targeting

Demand Creation & Communications

Service Delivery incl. Cold Chain & Logistics

Training & Supervision

Community Engagement

M&E

Safety Surveillance

#### **Key Points:**

- Creating COVID-19 competent communities
- Address issues on vaccine hesitancy
- Determining how to reach target population
- Identifying the best service delivery channels
- Developing district level implementation

PHASE 4

#### Surveillance

After a vaccine is approved and licenced – continued monitoring







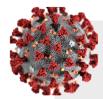


# The COVID-19 Vaccine Landscape in South Africa











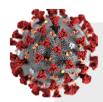
## What are the op1ons?

VACCINE	Pfizer-BioNTech	Moderna	Johnson & Johnson	Oxford-Astra Zeneca
DETAILS	<ul> <li>95% efficacy rate</li> <li>Two doses several weeks apart</li> <li>Immunity build up afer four weeks of the first dose</li> </ul>	<ul> <li>100% efficacy rate, as far is known - effec)ve up to 3 months</li> <li>Two doses several weeks apart</li> </ul>	<ul> <li>Single dose with high effec)veness</li> <li>Easier storage – can be stored for 3 months before use In Phase 3 trials</li> </ul>	• Two dose vaccine, 62% effec)ve Easier storage – 2-8 degrees Celsius for at least 6 months
MAY RECEIVE	5%	5%	20%	70%
INITIAL DOSES	?	?	? 12 million doses – COVAX (April – June)	1.5 million doses – Serum Ins)tute of India (Jan – Feb 2021)









## How will South Africa choose vaccines?

## Criteria for choosing a vaccine:

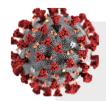


- 1. Does a supplier have stock available?
- 2. Is the vaccine safe, effective and of good quality?
- 3. How easy is it to use and how many doses are required?
- 4. Can it be easily stored and distributed?
- 5. Does the supplier have capacity to produce the volumes needed for South Africa's rollout?
- 6. How much does it cost?









## What can we expect in SA?





Frontline healthcare workers

Target population: 1 250 000

#### Phase 2:

**Essential workers** 

People in congregate settings

People over 60 years old

People over 18 years old with co-morbidities

Target population: 2 500 000

Target population: 1 100 000

Target population: 5 000 000

Target population: 8 000 000

#### Phase 3:

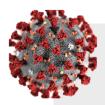
Other persons over 18 years old

Target population: 22 500 000









## What can we expect in SA?



# Who falls into which group?



#### **Essential Workers**

Police officers, miners, teachers, people working in security, retail, food, funeral, banking, and essential municipal and home affairs, border control and port health services.

## People in congregate settings

People in care homes, detention centres, shelters and prisons. People working in the hospitality and tourism industry and in educational institutions.

## People over 18 with co-morbidities

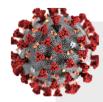
People living with uncontrolled diabetes, chronic lung disease, poorly controlled cardiovascular disease, renal disease, HIV, tuberculosis and obesity.













## What can we expect in SA?

#### PHASED APPROACH BASED ON AVAILABILITY OF VACCINE

Distribution will adjust as volume of vaccines increases, moving from targeted to broader population reach (phased approach)

#### PHASE 1 PHASE 2 **Larger Number of Doses Doses Limited Doses Available Available Available** Increased supply, increased Key Constrained Supply **Factors** • Highly Targeted Delivery – to access COVAX Facility achieve coverage in priority populations • Essential workers, persons in

Likely **Strategies** 

WITS RHI

Focused delivery

Workers

Front-line Health Care

- Delivery in closed setting specific to priority populations
- Public & Private Sector

 Delivery through private settings (pharmacies, doctors, work)

congregate settings, adults

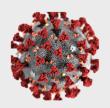
with co-morbidities/ over 60

Delivery through public settings (hospitals, clinics, outreach, mobile)

PHASE 3

Continued Vaccination, Shift to Routine Strategy

- Supply through contracted manufacturers
- Other persons older than 18 years
- Open vaccinations
- Delivery through public and private sector but strong focus on primary health care



## Now lets talk...







## **Session Questions**

Those who are national leaders in the following sectors please raise your hands

- What are top concerns in your sector about vaccines?
- What is your main concern about the upcoming roll out?
- What should we be thinking about in terms of building knowledge and awareness in our sectors and communities about vaccines in general?
- With phased supply of vaccines expected, how do you think we can create demand for the COVID-19 vaccine without raising unrealistic expectations?









## Thank you for engaging!

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