



**Western Cape
Government**

Health

Digital Press Conference

Update: COVID-19 and Vaccination Roll-out

Dr K Cloete

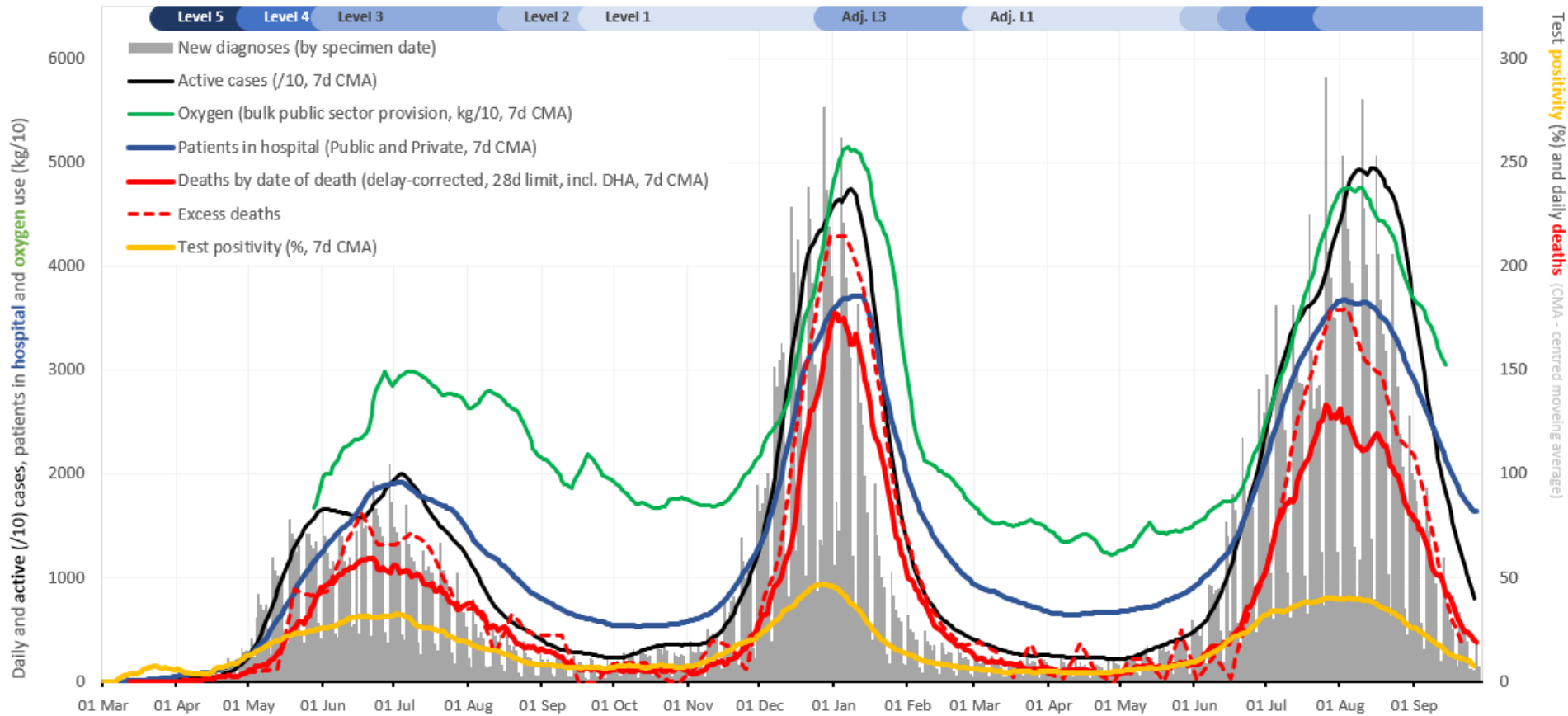
30 September 2021

Overview

1. Surveillance & Response Update
2. Update on variants
3. The triggered response and current status of the health platform
4. Understanding deaths in the 3rd wave and vaccine effectiveness
5. Vaccine Implementation update
6. Conclusions

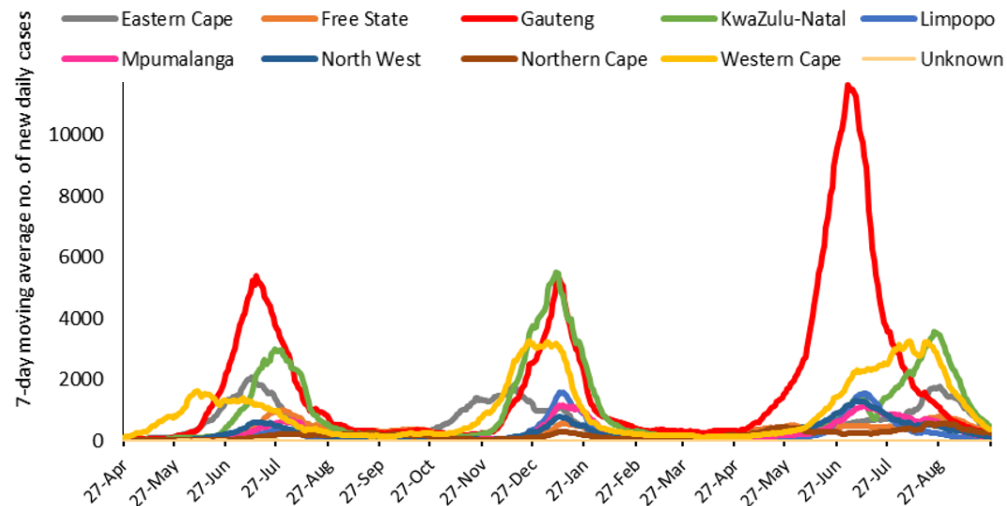
Surveillance & Response Update

Integrated testing, case, hospitalisation and mortality trends

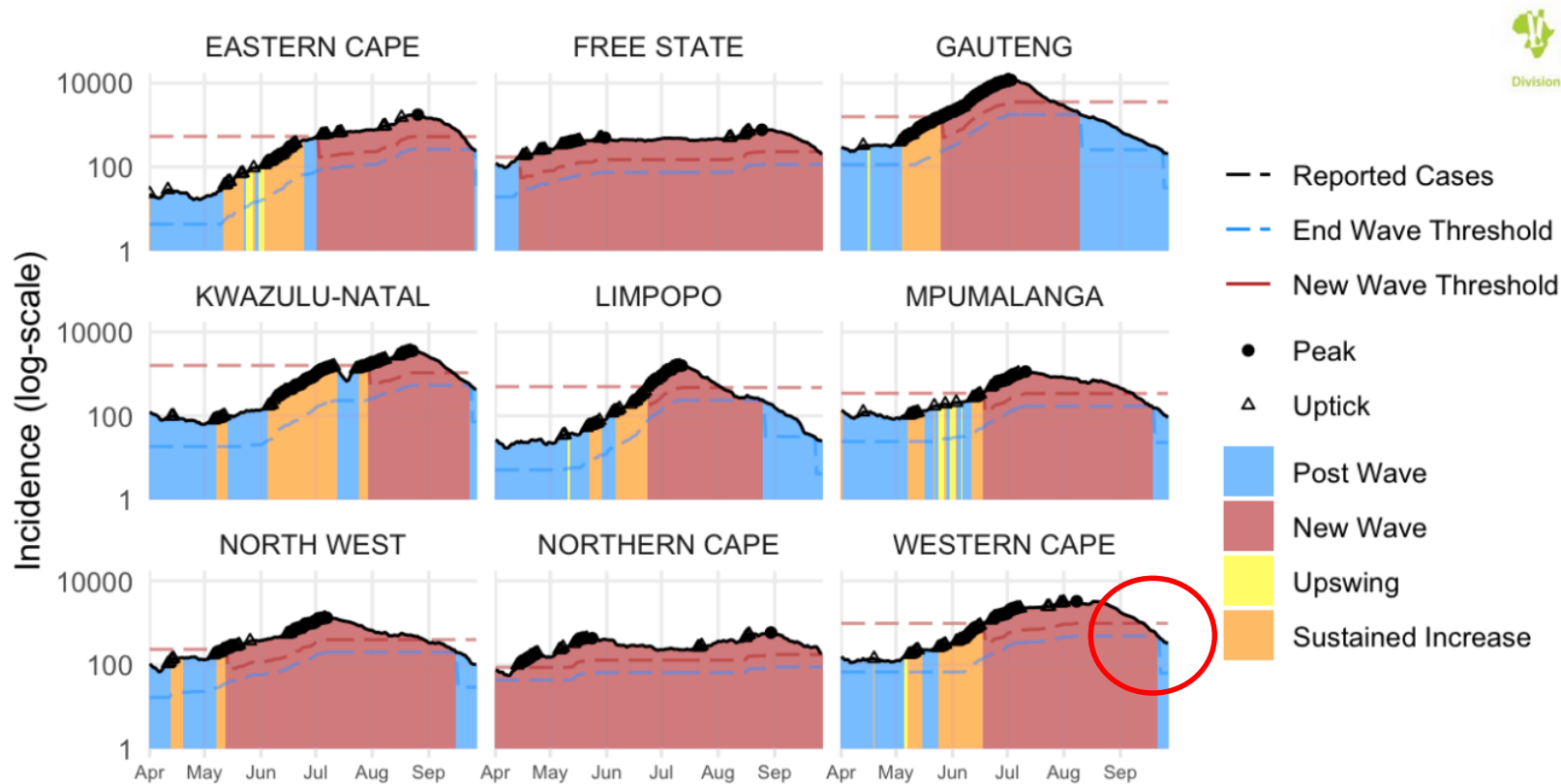


National trends

- South Africa as a whole and all provinces except Free State and Northern Cape have reached the end of wave threshold.
- All provinces on downward trend.



7-day moving average of new cases by province



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES
Division of the National Health Laboratory Service



SOUTH AFRICAN
COVID-19
MODELLING
CONSORTIUM



Provincial Resurgence Overview



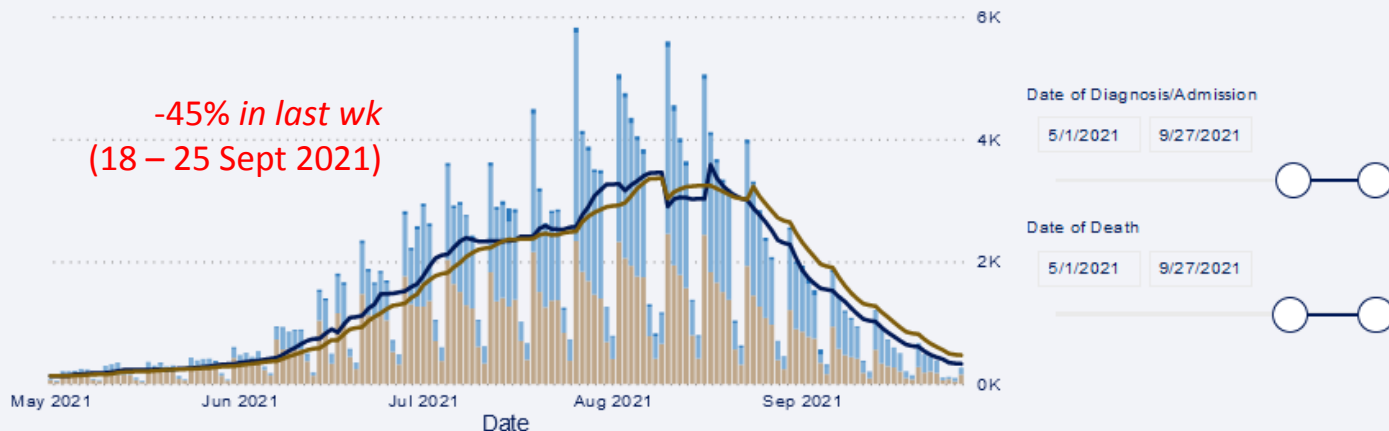
Health Impact Assessment
WC Department of Health
Last Updated:
9/29/2021 4:01:38 AM

No. of Cases, 7 Day Moving Average and 14 Day Moving Average by Date and Sector

Sector ● Private/Other ● Public ● Unknown — 7 Day Moving Average — 14 Day Moving Average

Select District, Subdistrict:

- ☐ Cape Winelands
- ☐ Central Karoo
- ☒ City of Cape Town
 - ☐ Eastern
 - ☐ Khayelitsha
 - ☐ Klipfontein
 - ☐ Mitchells Plain
 - ☐ Northern
 - ☐ Southern
 - ☐ Tygerberg
 - ☐ Western
- ☐ Garden Route
- ☐ Overberg
- ☐ West Coast



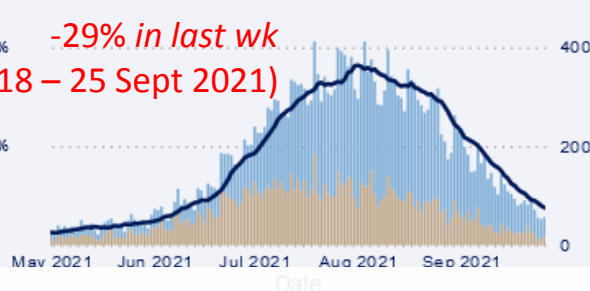
Proportion Positive and Overall Positivity by Date and Sector (*Provincial Only)

Sector ● Private/Other ● Public — Overall Positivity



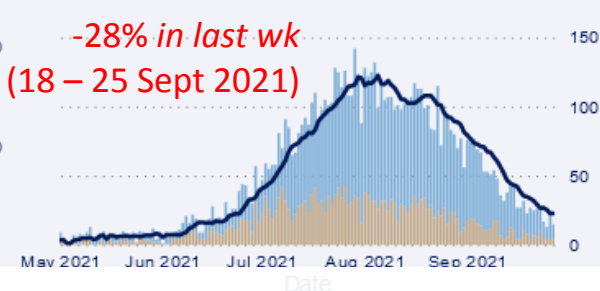
No. of New Admissions and 7 Day MA by Date and Sector

Sector ● Private ● Public — 7 Day MA



No. of Deaths and 7 Day MA by Date and Sector

Sector ● Private/Other ● Public — 7 Day MA



Provincial Overview

- Case numbers continue to decrease and we are now seeing on average 350 new diagnoses each day. As this is less than 15% of our peak, we have now **officially exited the third wave**.
- The **proportion positive** has also decreased to **9.2%**.
- Admissions and deaths continue on a downward trend, with an average of **80 new admissions** and around **25 deaths each day**.



5/1/2021

9/27/2021



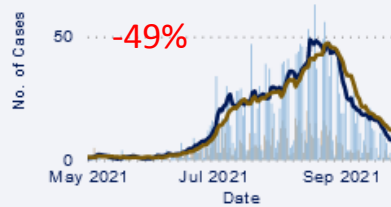
Metro Resurgence Overview

Health Impact Assessment
WC Department of Health

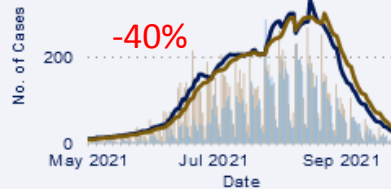
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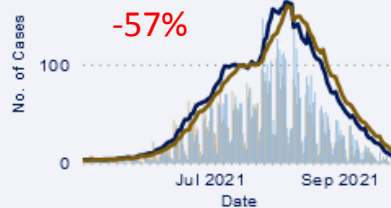
Khayelitsha



Eastern

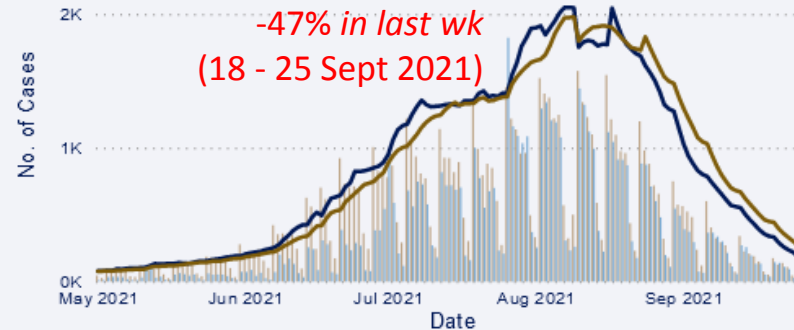


Klipfontein

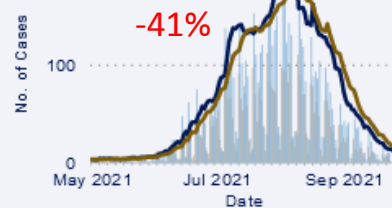


Metro Overview: No. of Cases with 7 and 14 Day MA by Date and by sector

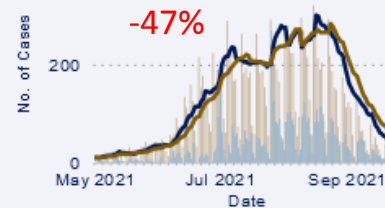
Sector ● Private/Other ● Public — 7 Day Moving Average — 14 Day Moving Average



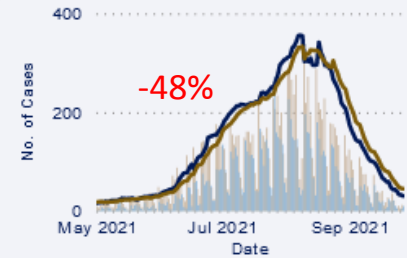
Mitchells Plain



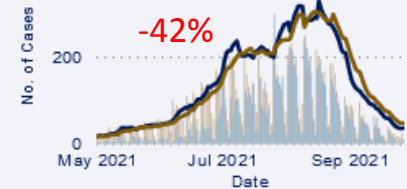
Northern



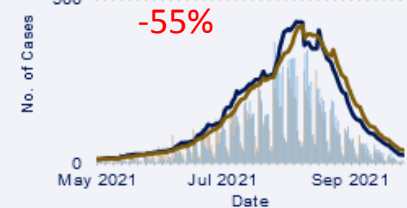
Southern



Western



Tygerberg



Metro Overview

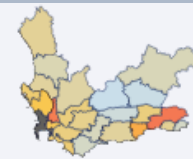
- Overall, there is a **47% week on week decrease** in cases in the **Metro**.
- All subdistricts continue to see substantial decreases in case numbers.



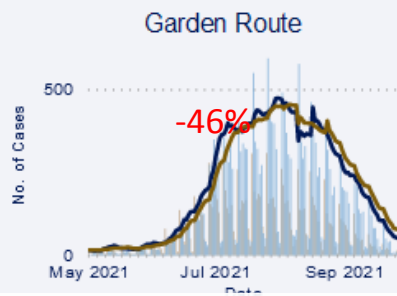
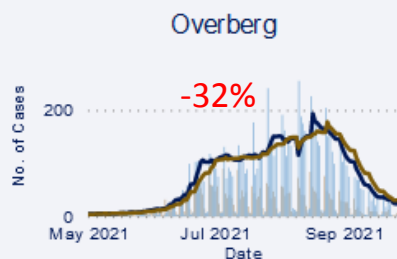
5/1/2021 9/27/2021



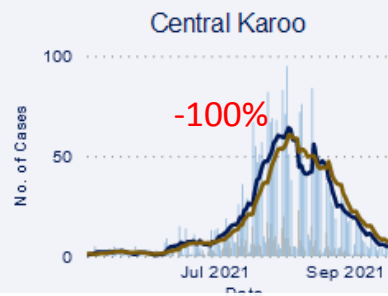
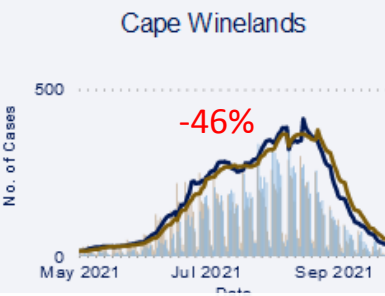
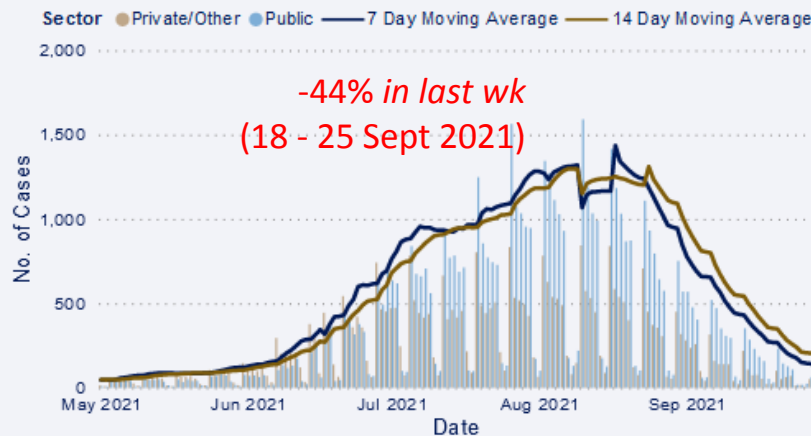
Rural Resurgence Overview



Health Impact Assessment
WC Department of Health
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9/29/2021 4:01:38 AM



Rural Overview: No. of Cases with 7 and 14 Day MA by Date and by sector



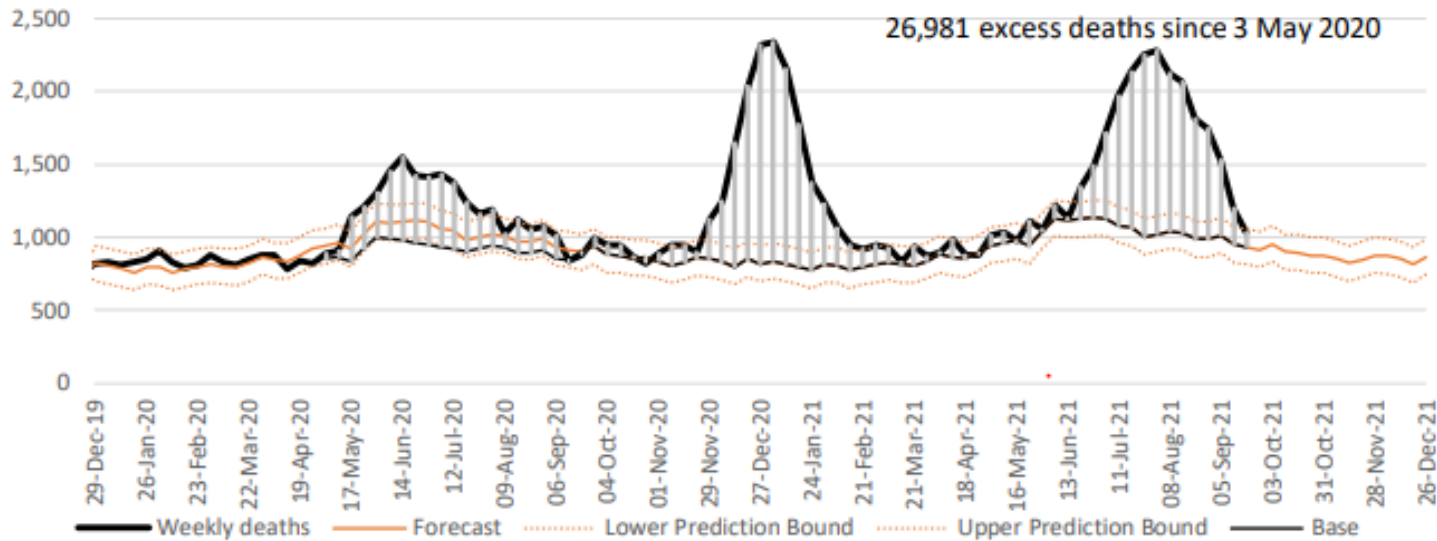
No. of Cases by Rural Subdistrict

District	Subdistrict	No. of Cases
Garden Route	George	12,050
Cape Winelands	Drakenstein	11,593
Garden Route	Mossel Bay	7,985
West Coast	Swartland	5,577
Cape Winelands	Stellenbosch	5,318
West Coast	Saldanha Bay	4,447
Overberg	Overstrand	4,389
Cape Winelands	Breede Valley	4,027
Garden Route	Oudtshoorn	3,999
Overberg	Theewaterskloof	3,955
Cape Winelands	Langeberg	3,479
Garden Route	Knysna	3,233
West Coast	Matzikama	3,157
Garden Route	Hessequa	2,950
West Coast	Bergervier	2,935
Cape Winelands	Witzenberg	2,688
West Coast	Cederberg	2,191
Central Karoo	Beaufort West	2,020
Overberg	Swellendam	1,860
Overberg	Cape Agulhas	1,585
Garden Route	Bitou	1,550
Garden Route	Kannaland	866
Central Karoo	Prince Albert	468
Central Karoo	Laingsburg	310
Total		92,632

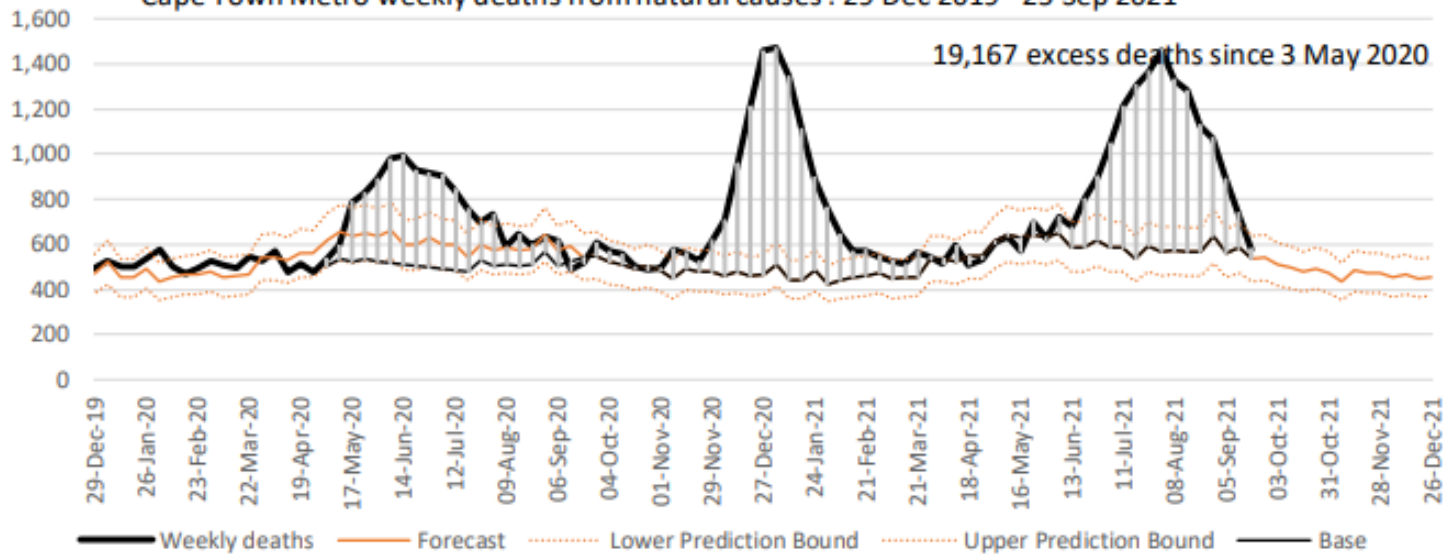
Rural Overview

- There is a similar decrease in case numbers across the rural districts.

Western Cape weekly deaths from natural causes : 29 Dec 2019 - 25 Sep 2021



Cape Town Metro weekly deaths from natural causes : 29 Dec 2019 - 25 Sep 2021



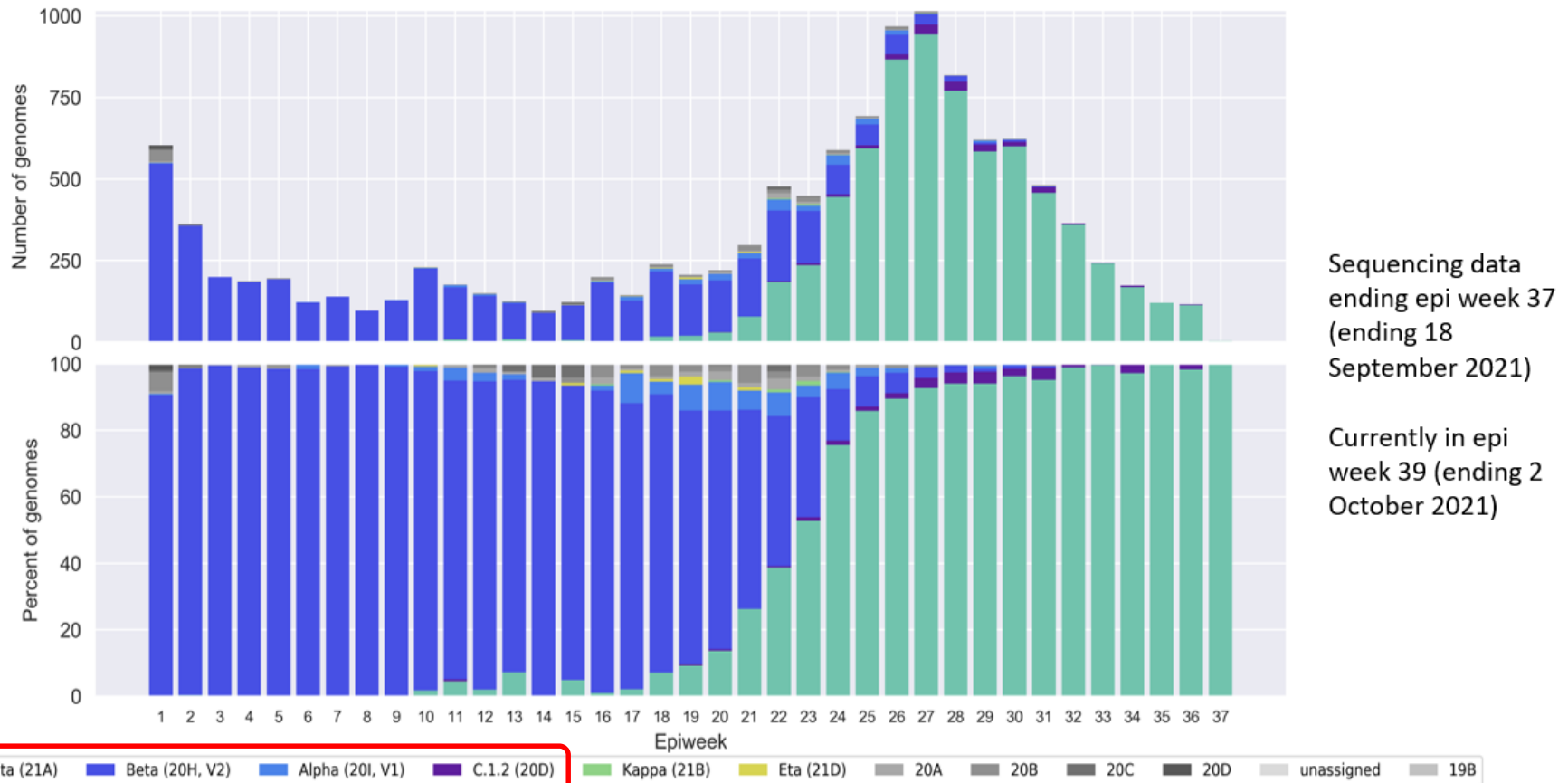
There has been a steady decline in excess deaths which are now within prediction bounds for this time of year in both the Cape Metro and across the province.

Update on variants



Update on genomic surveillance in South Africa

Distribution and number of clades in South Africa, 2021 (N= 12 723)

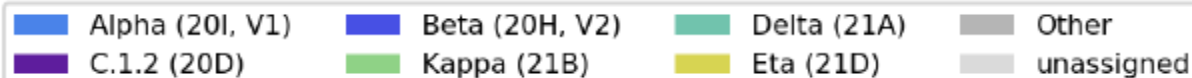
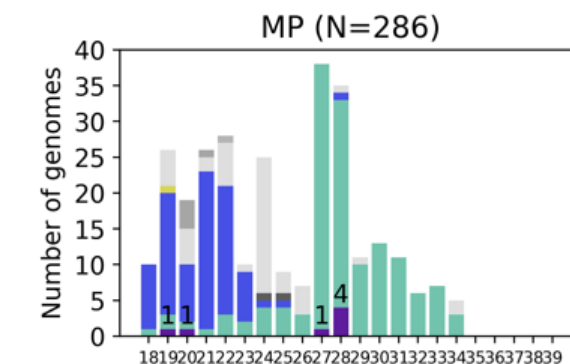
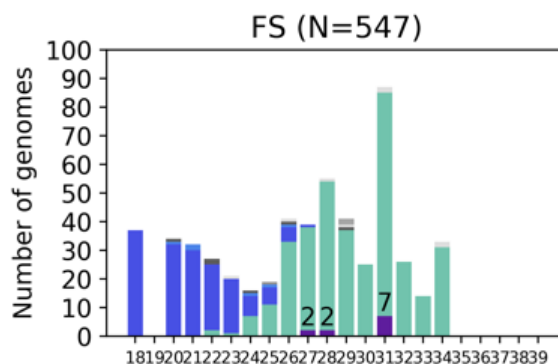
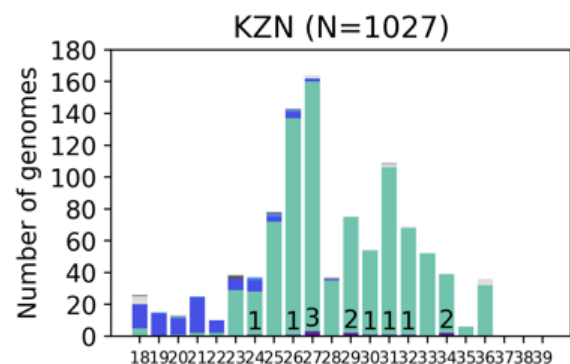
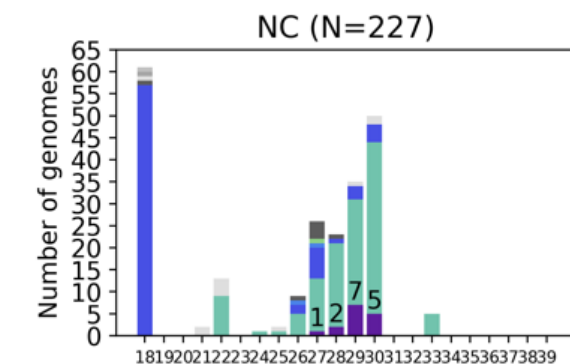
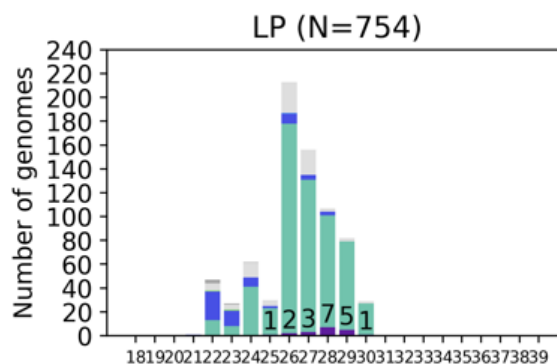
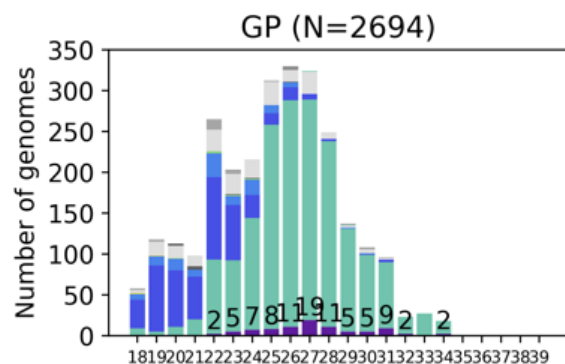
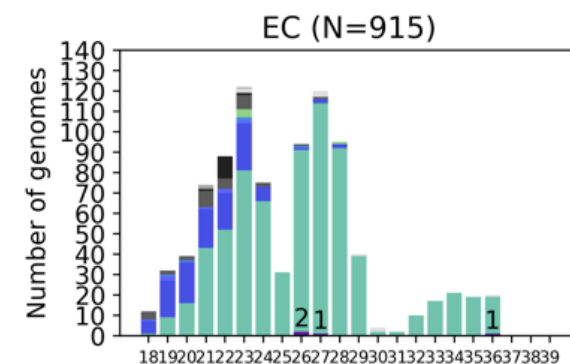
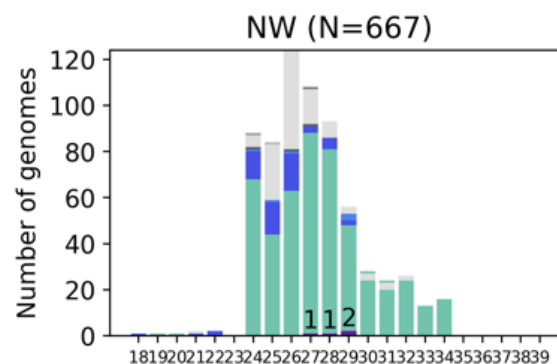
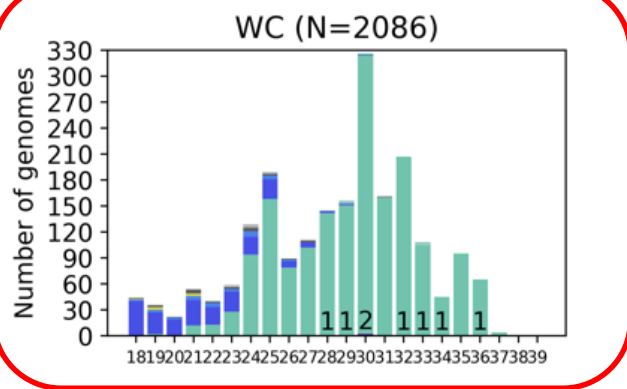


**Delta came to dominate by end June at >65% , in July at >85% and in August and September at >90%
C.1.2 present at <3% frequency since March**

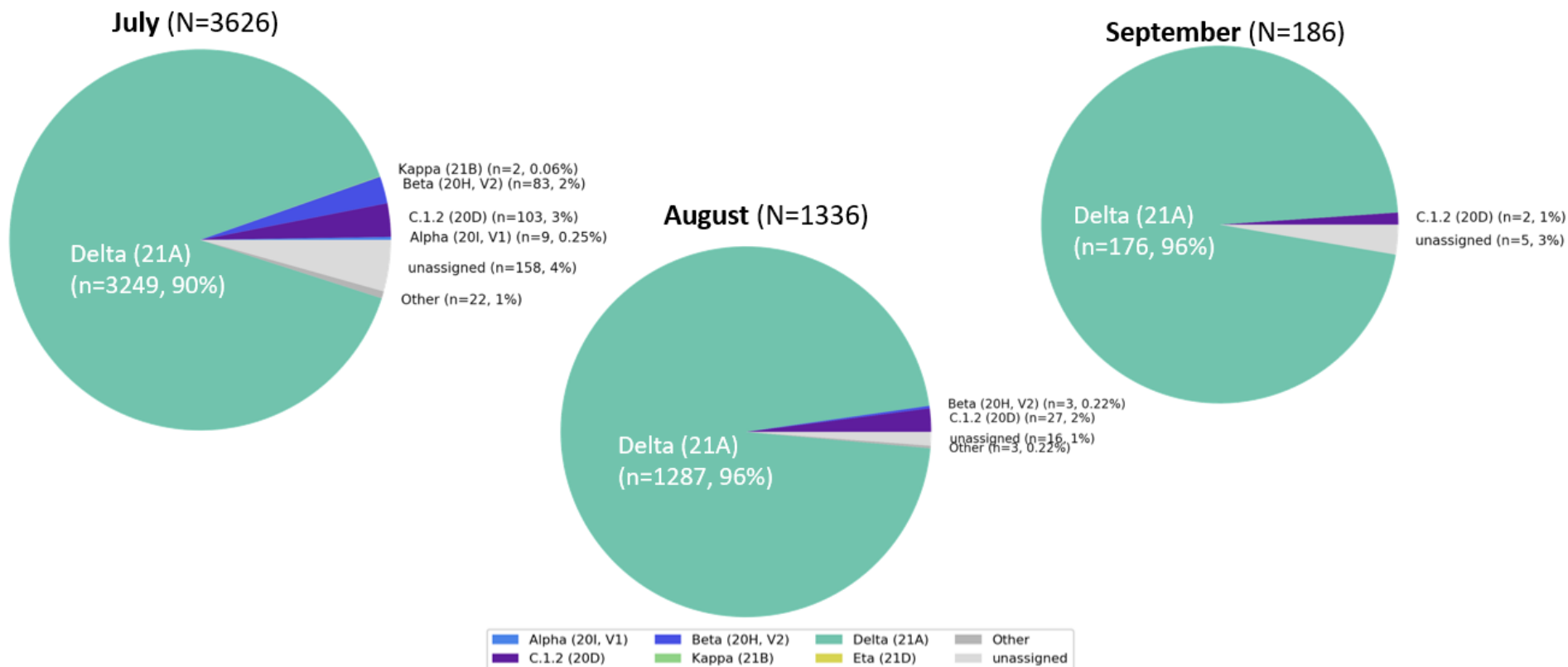


Delta overwhelmingly dominant variant with very little Beta or C.1.2 detected.

Isolated detection of C.1.2 in all provinces; 8 specimens to date in WC



Prevalence of Variants of Concern (VOC) and Variants of Interest (VOI) in **July – September 2021** sequences, South Africa

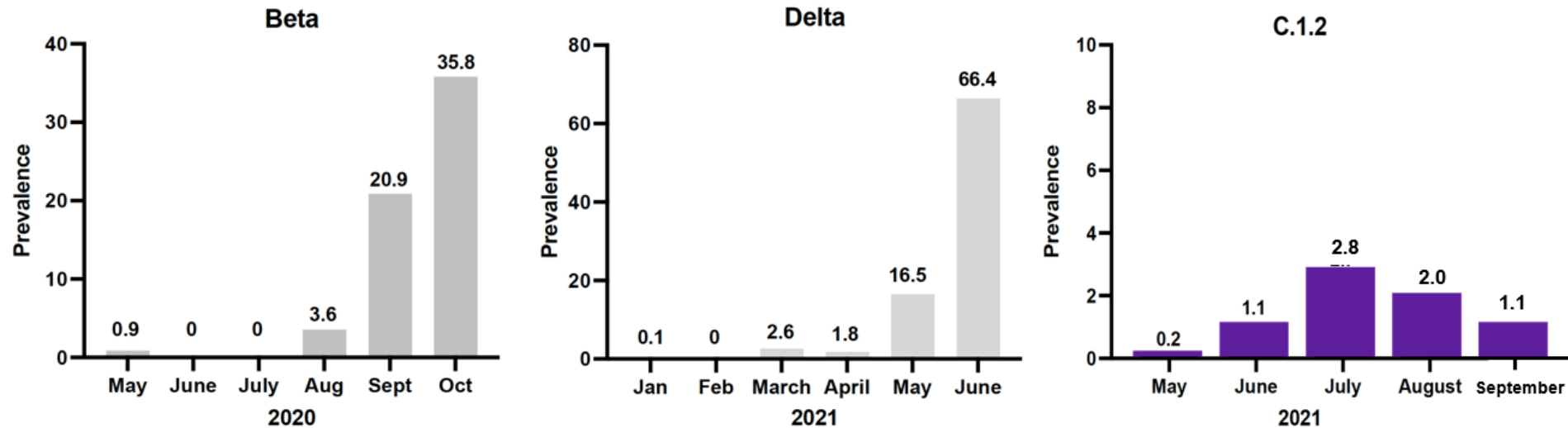


The Delta variant dominated in July and August in South Africa.

No Beta in specimens sequenced from September to date (although number of specimens with sequence results still quite low). Delta accounted for 96% of August & September specimens.

Proportion of specimens that are variants of concern in the few months after detection

C.1.2 growth compared to Beta and Delta













C.1.2 is being continually monitored and is currently only detected at low levels

Beta and Delta rapidly took over as dominant variant within months of first detection. No evidence that C.1.2 is starting to dominate rapidly so very unlikely to follow pattern of Beta and Delta and become dominant variant in South Africa

The triggered response and current status of the health platform

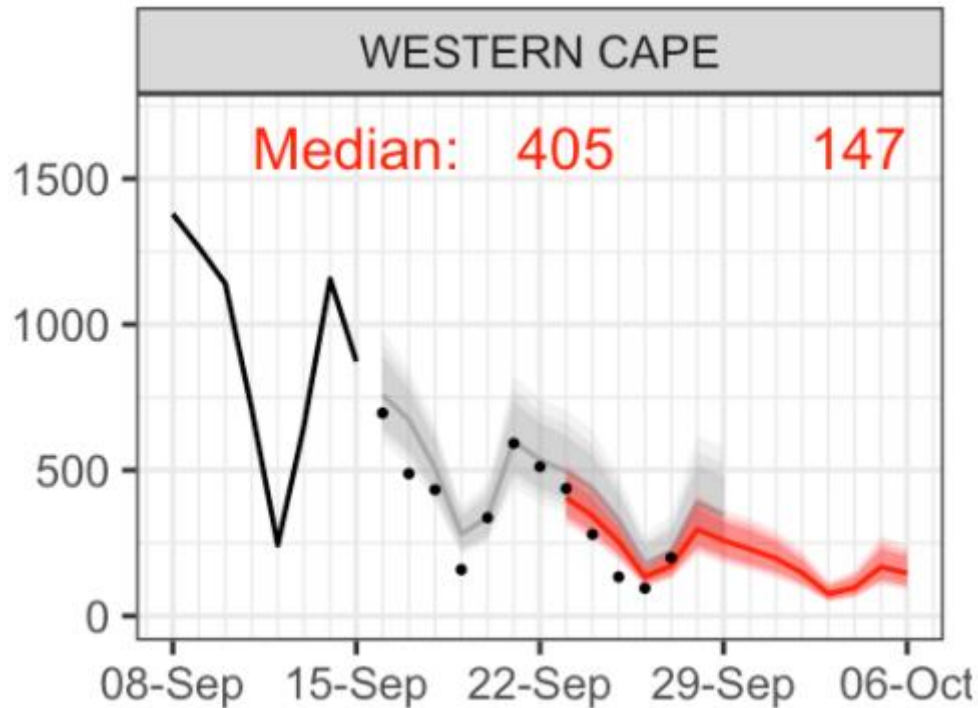
Western Cape 3rd wave – triggered response

Principle: Transparent pre-defined triggers for whole of society response to reduce transmission and prepare health services.

Indicator	Example of Resurgence Metric	
First warning: ↑ health service demand in 14-21d	  	<p>Large ↑ daily cases (increase for ≥ 1 week of ≥ 20%)</p> <p>Overall test positivity >7% for ≥1 week</p> <p>>15% of hospitals have >10% of beds occupied by COVID-19 patients</p> <p>>50% ↑ in pre-COVID-19 hospital O₂ use</p>
Second warning: ↑ health service demand in 7-14d	  	<p>Overall test positivity 10-15% for ≥1 week</p> <p>>15% week-on-week increase in 7dma of current admissions</p> <p>>40% of hospitals have >10% of beds occupied by COVID-19 patients (24%)</p> <p>>75% ↑ in pre-COVID-19 hospital O₂ use (currently at 31T/day or >75%)</p>
Third warning: ↑ health service demand in 2-7d	 	<p>>20% week-on-week increase in 7dma of current admissions (↓ to - 16.2%)</p> <p>>50% of hospitals have >20% of beds occupied by COVID-19 patients (30%)</p> <p>>50% of high care, intensive care & HFNO₂ COVID-19 beds occupied (50%)</p> <p>>100% ↑ in pre-COVID-19 hospital O₂ use (currently at 31T/day or >100%)</p>
Health service capacity threatened	 	<p>>2800 current COVID-19 inpatients (currently at 1905 admissions)</p> <p>Note: This is across both public and private sector.</p> <p>>80% of high care, intensive care & HFNO₂ COVID-19 beds occupied (50%)</p> <p>>200% ↑ in pre-COVID-19 hospital O₂ use (currently at 31T/day or ~ 158%)</p>

Short term predictions from SACMC – new cases

Actual cases continue to fit relatively well with predicted numbers for the past week with further declines in case numbers expected.



Black line:
previous cases

Grey line:
forecast for this week

Dots:
actual cases

Red line:
Prediction for next week

Acute service platform – current picture

**2690 public
beds
provisioned**

1. Currently **1 905 COVID patients** in our acute hospitals (**1 027** in **public** hospitals & **878** in **private** hospitals). This **excludes PUIs** and **cases in specialised hospital** settings.
2. The **Metro hospitals** have an average **BOR of 92%**; **George** drainage area hospitals at **67%**; **Paarl** drainage area hospitals at **69%** & **Worcester** drainage area hospitals at **65%**. **Critical care BOR for designated COVID beds for the province at 50 %**.
3. **COVID & PUI cases** currently make up **10%** of all available acute general hospital capacity in both Metro and Rural Regional Hospital drainage areas.
4. **COVID inter-mediate care** – the **Brackengate Hospital of Hope** currently has **103 patients (30.6 % BOR)**, **Mitchell Plain Hospital of Hope** has **7 clients and will close on the 30th September**. **Sonstraal** currently has **34 clients (53%)**; **Freesia & Ward 99** have **0 patients**.
5. The Metro **mass fatality centre** has capacity for **240 bodies**; currently **0 decedents (cumulative total of 2 101 bodies)** admitted. The TMFC will close on the **30th September**.

Preparing and Caring for our People – exiting 3rd Wave

Workforce Planning:

- Currently, appointed **839** staff additional for COVID
- Appointed **1449 HCW and support staff** which includes **594 interns** for the Vaccination Drive
- Contract extensions until end of Sept and Dec to ensure continued staff capacity on the health platform (in anticipation of the 4th wave).
- A total of **777 applicants** can still be appointed, if needed

COVID: 2 new appointees

Vaccination Drive:

- 9 new appointees (HWC & Support);
- 7 interns appointed additionally

Vaccination Training:

- **6285** registered vaccinators on health platform
- **4189** trained vaccinators to date

7 new registered vaccinators

12 additionally trained vaccinators

Well-being and Safety:

- Increased utilisation of Onsite Counselling Clinics (Employee Wellbeing Programme)
- PPE provision and improving OHS Practices
- Staff Fatigue – **encouraging rest & reset** (leave provisions)
- **HEALING JOURNEY Phase 2** will be commencing in October
- Internal Health Comms Series and Staff Wellbeing to build resilience and hope

EHW Programme Focus Areas:

- Physical Wellbeing (Yoga & Therapeutic Dance)
- Mental Wellbeing (Resilience, Coping & Support)
- Financial Wellbeing

5

Safeguard & protect the well-being of health care workers

DEPARTMENTAL OVERVIEW OF ONLY COVID-19 CASES AND DEATHS IN HEALTHCARE WORKERS (HCWs)

Totals as at 29 Sep 2021

Cumulative Infections

12,518



12,230

% Recovered

97.70%



187

% Died

1.49%

Active Cases

101

% Active

0.81%

Doctors



1256

Nurse



5,449

Radiographers



151

Pharmacists



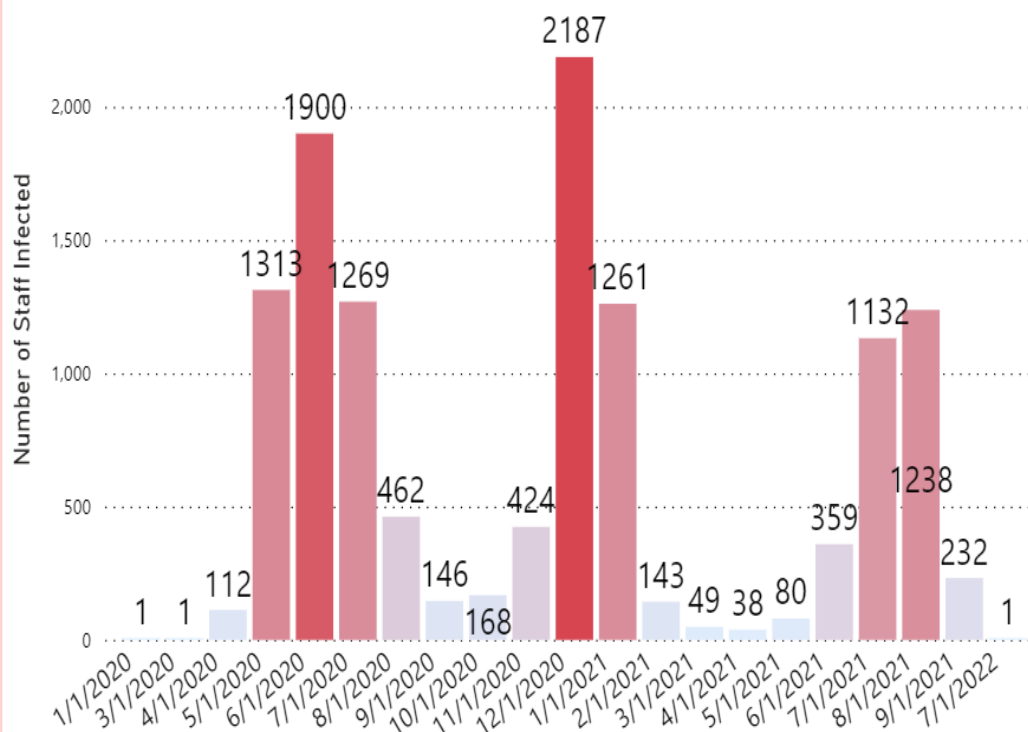
141

Other
categories

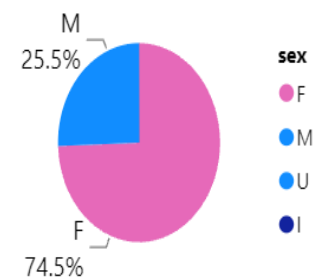


5,521

Total Staff Infected per Month



Gender Distribution



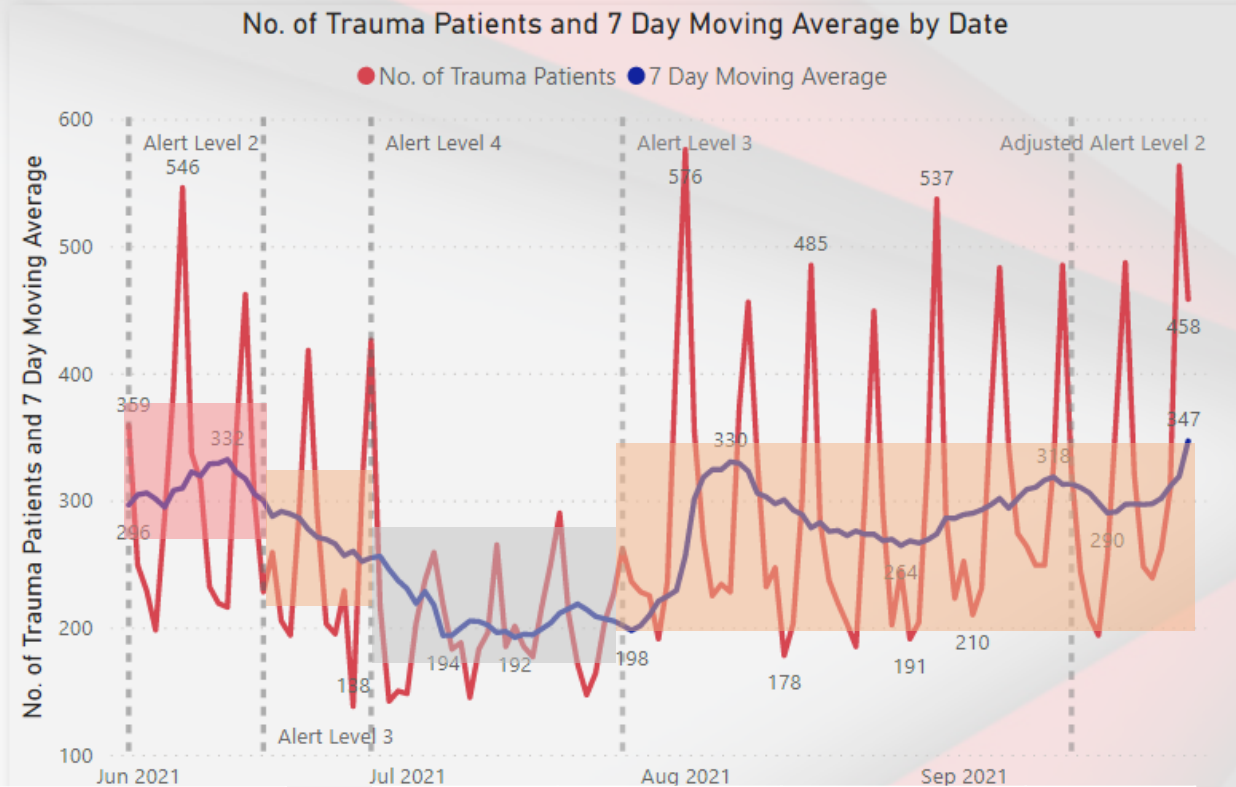
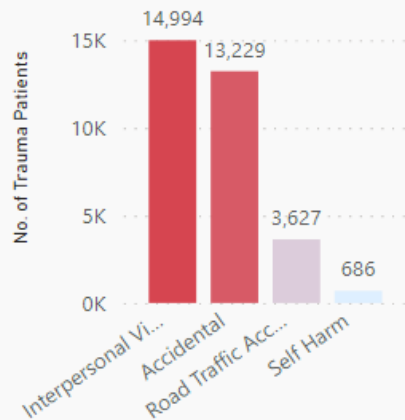
WC Sentinel Trauma Report

Source: **HECIS**

This report shows a sample of 17 hospital emergency centres and their trauma patient numbers over time

Overview of changes in recent trauma presentations (31 May 2021-19 Sept 2021)

No. of Trauma Patients by Trauma Category



Date Period	Lockdown Level	Alcohol Regulation	Curfew
31 May -15 June 2021	Alert Level 2	No restrictions	23:00-04:00
16 June -27 June 2021	Adjusted Level 3	Offsite sale restriction Mon-Thurs 10-00-18:00	22:00-04:00
28 June – 25 July 2021	Adjusted Level 4	Complete prohibition of sale	21:00-04:00
26 July - 12 September 2021	Adjusted Level 3	Offsite sale restriction Mon-Thurs 10-00-18:00	22:00-04:00

Date Period	Lockdown Level	Alcohol Regulation	Curfew
>13 September 2021	Adjusted Level 2	Offsite sale restriction Mon-Friday 10-00-18:00	23:00-04:00

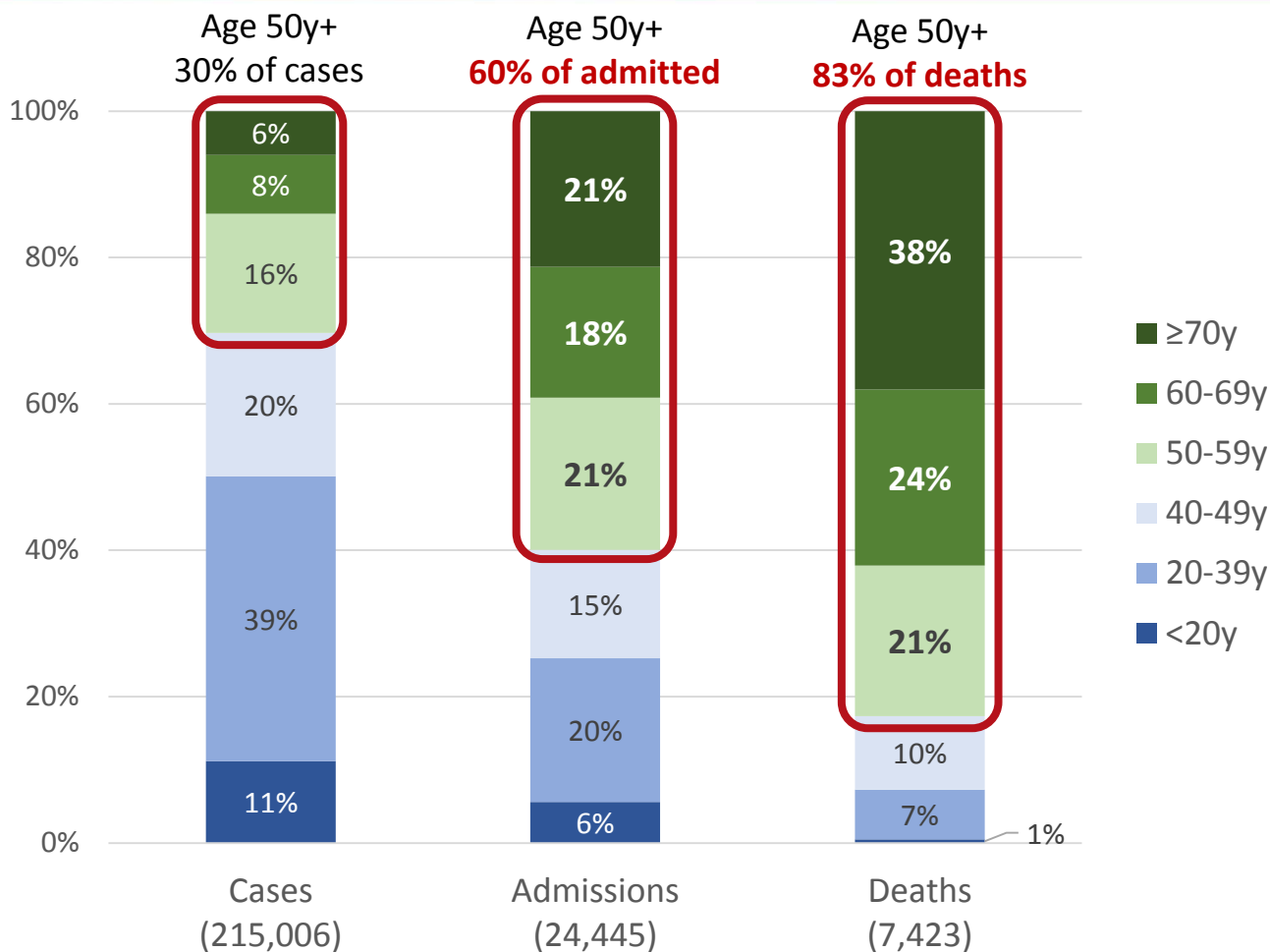
The impact Adjusted Level 2 with extension of retail alcohol sale to Fridays and its impact on trauma presentations will only be seen over the coming weeks.

The recent long weekend, in the context of retail sale on Fridays and a near end of month weekend, also saw significant increases in the trauma burden across the health platform.

Understanding deaths in the 3rd wave & vaccine effectiveness

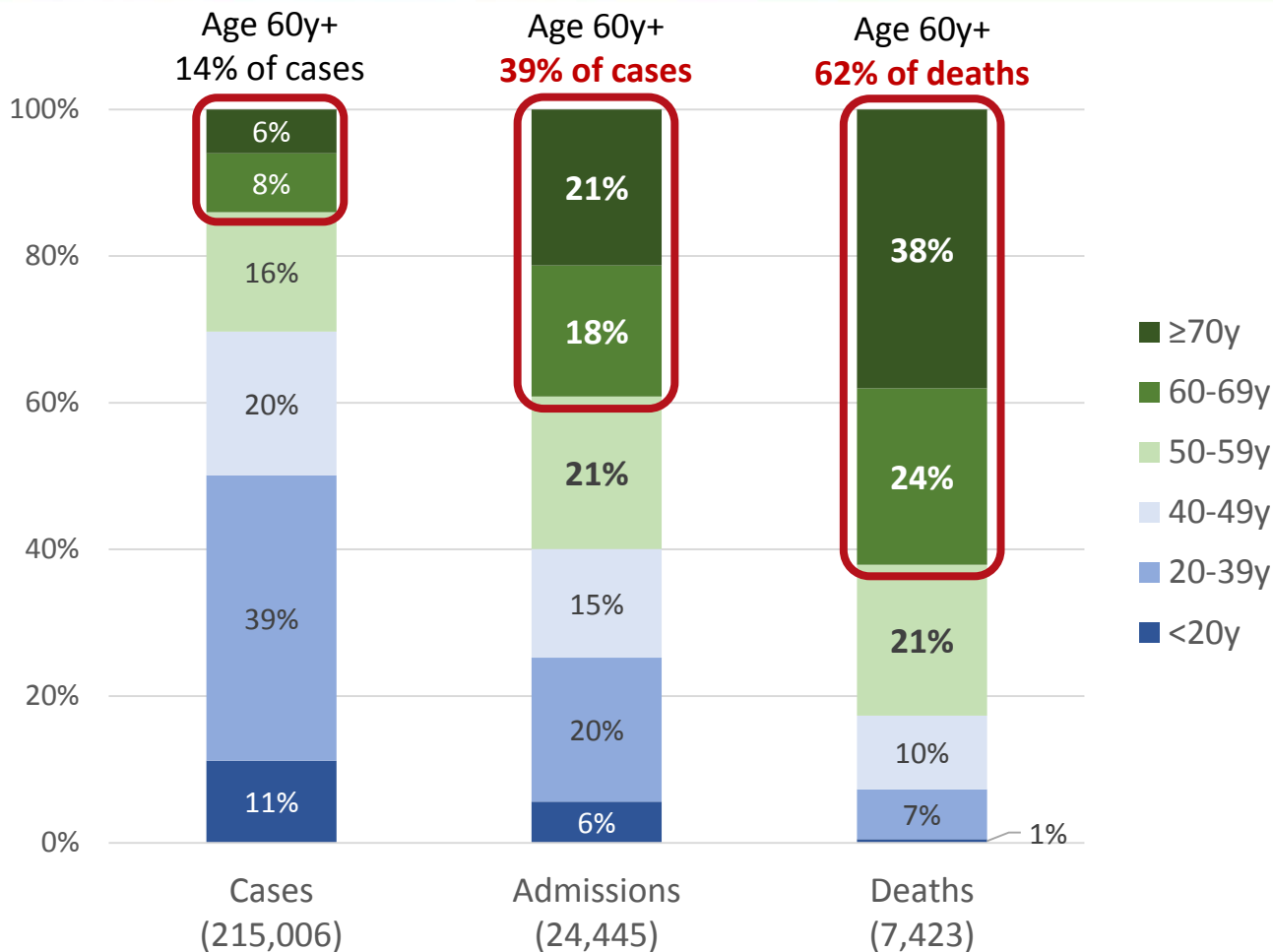
Age of cases, hospital admissions & deaths in 3rd wave

(10 Jun–24 Sep 2021)



Age of cases, hospital admissions & deaths in 3rd wave

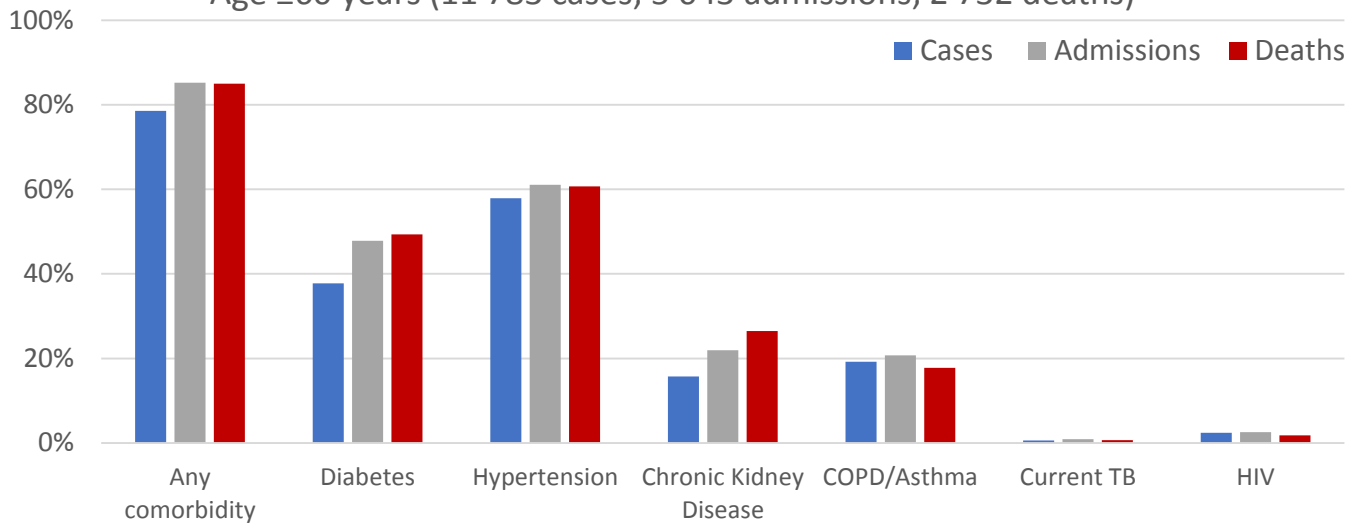
(10 Jun–24 Sep 2021)



Comorbidities in cases, admissions and deaths

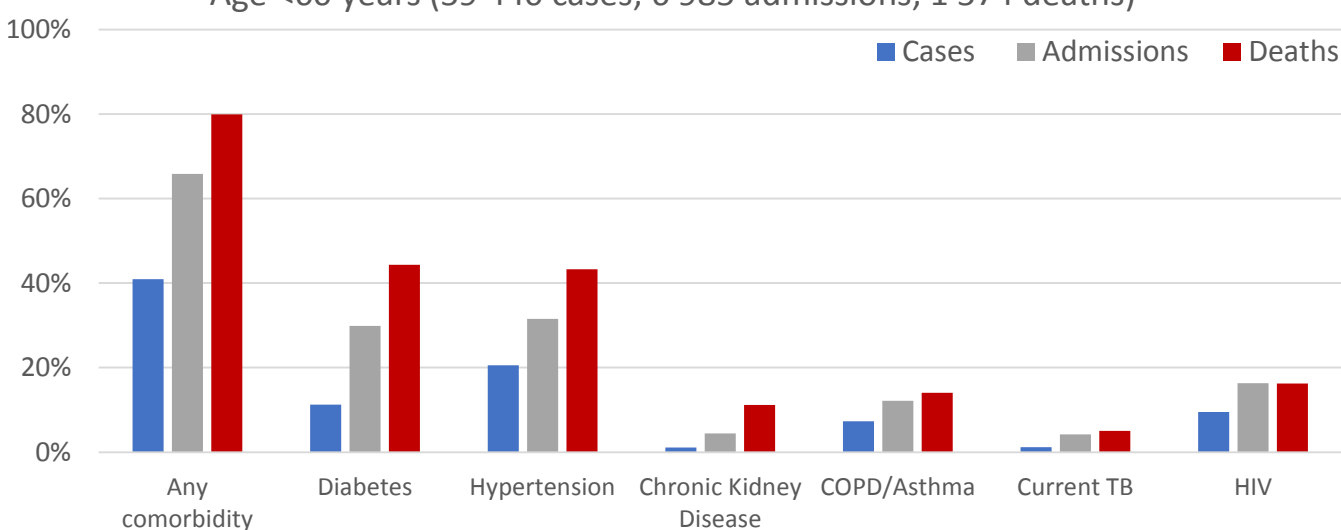
(<60y vs 60y+)

Age ≥60 years (11 783 cases; 5 043 admissions; 2 732 deaths)*



Most comorbidities more common in the 60y+ cases, admissions and deaths vs <60y

Age <60 years (59 440 cases; 6 985 admissions; 1 574 deaths)*



But relative importance of comorbidities as a risk factor for admission and death is much greater in those <60y

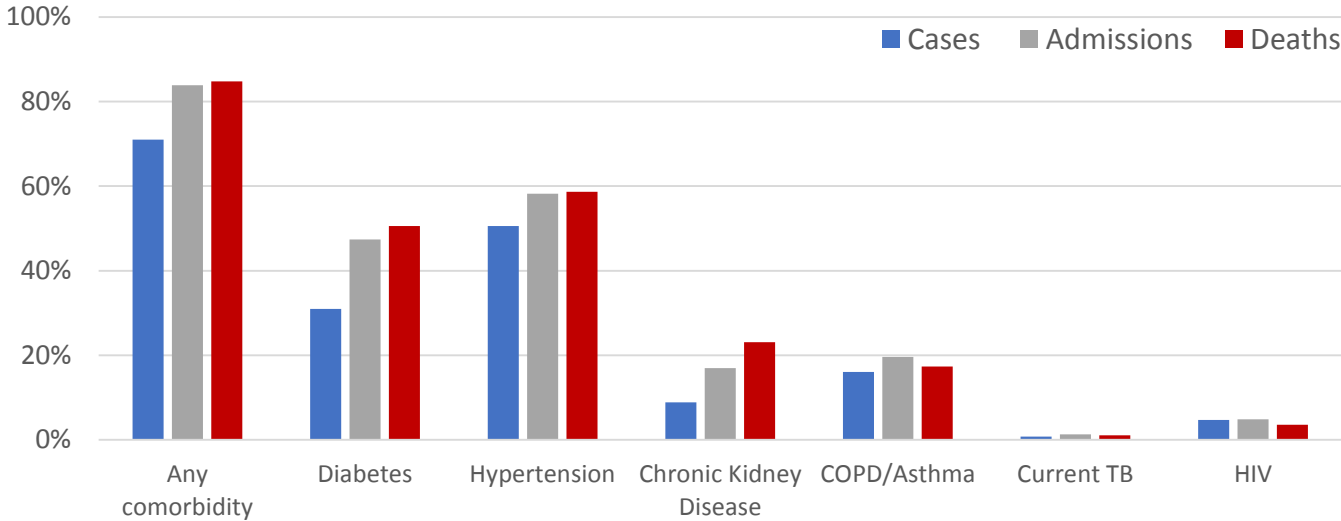
Note: Obesity, cardiovascular disease, malignancy not included as comorbidities as limited data on these conditions

*Limited to public sector patients as comorbidity data not available for all private sector patients.

Comorbidities in cases, admissions and deaths

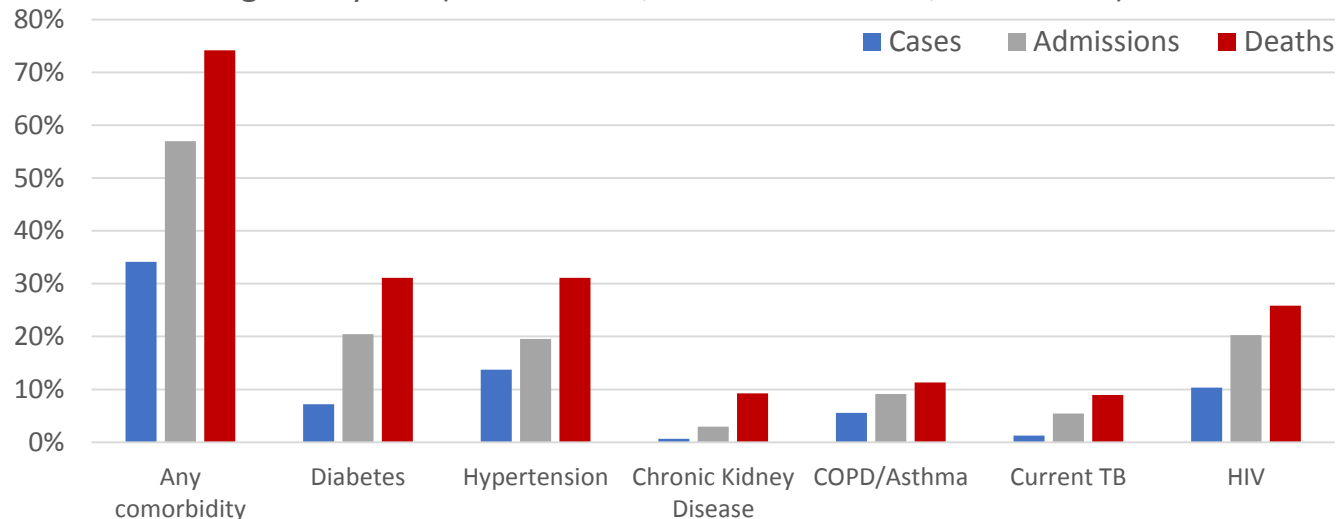
(<50y vs 50y+)

Age ≥50 years (25 218 cases; 7 591 admissions; 3 625 deaths)*



Most comorbidities more common in the 50y+ cases, admissions and deaths vs <50y

Age <50 years (46 005 cases; 4 437 admissions; 681 deaths)*



But relative importance of comorbidities as a risk factor for admission and death is much greater in those <50y

Note: Obesity, cardiovascular disease, malignancy not included as comorbidities as limited data on these conditions

*Limited to public sector patients as comorbidity data not available for all private sector patients.

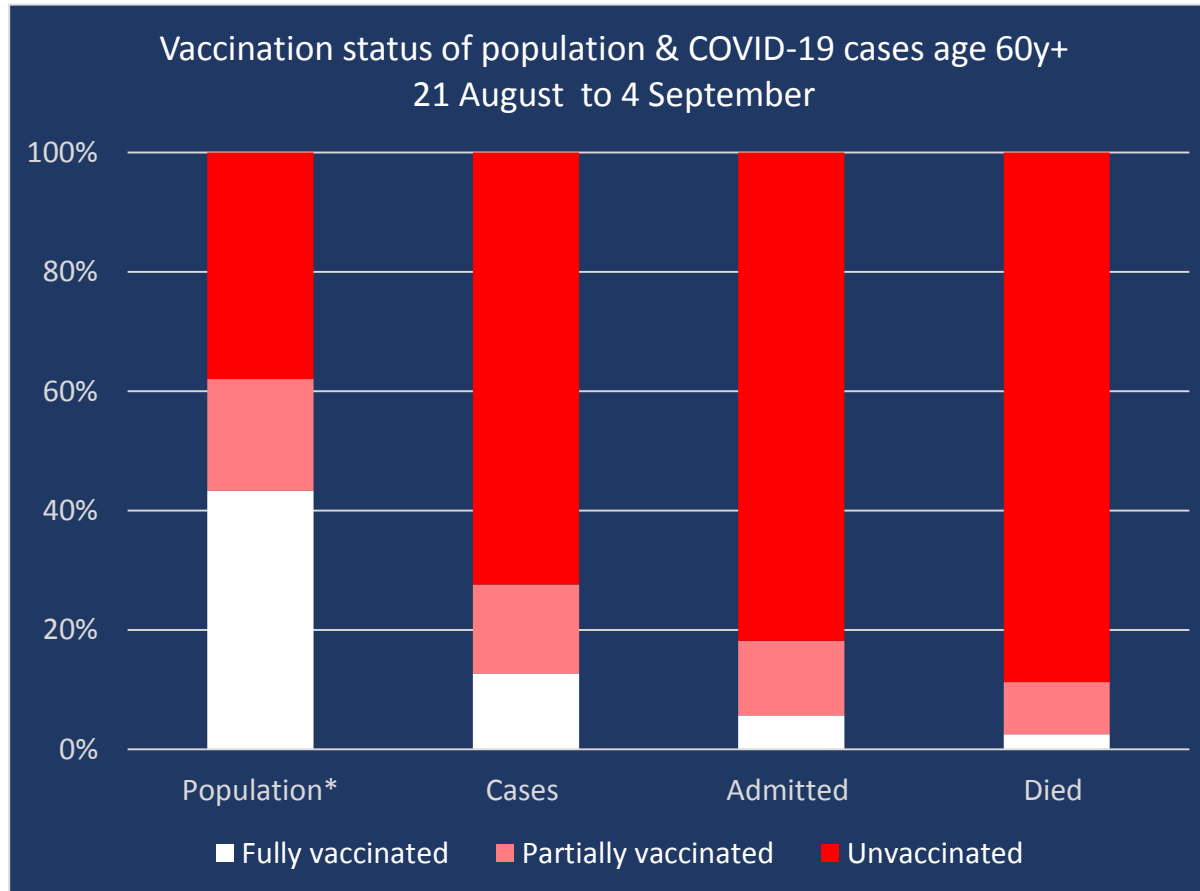
Risk factors for death in adult COVID-19 cases in wave 3

(limited to public sector cases diagnosed before 23 Aug 2021; n=58,010)

	Adjusted Odds Ratio*	95% CI
Sex		
female	Ref	
male	1.45	1.34; 1.56
Age		
20-39 years	Ref	
40-49 years	2.50	2.10; 2.98
50-59 years	6.38	5.46; 7.45
60-69 years	15.44	13.16; 18.10
≥70 years	38.68	32.93; 45.43
Comorbidities (Ref = comorbidity absent)		
Diabetes	2.57	2.37; 2.79
Hypertension	1.09	1.01; 1.19
Chronic kidney disease	2.55	2.28; 2.85
Chronic pulmonary disease / asthma	1.02	0.92; 1.14
Tuberculosis previously	1.27	1.10; 1.46
Tuberculosis currently	3.10	2.31; 4.14
HIV	1.66	1.42; 1.94
Prior diagnosed infection (vs none)	0.64	0.46; 0.88
Vaccination status at time of diagnosis		
None	Ref	
Early partial (<21 days post (first) dose)	0.66	0.57; 0.76
Late partial (≥21 days post (first) dose until fully vaccinated)	0.39	0.34; 0.45
Fully (≥14 days post 2nd Pfizer or ≥28 days post J&J)	0.22	0.15; 0.32

*Adjusted additionally for sub-district of residence

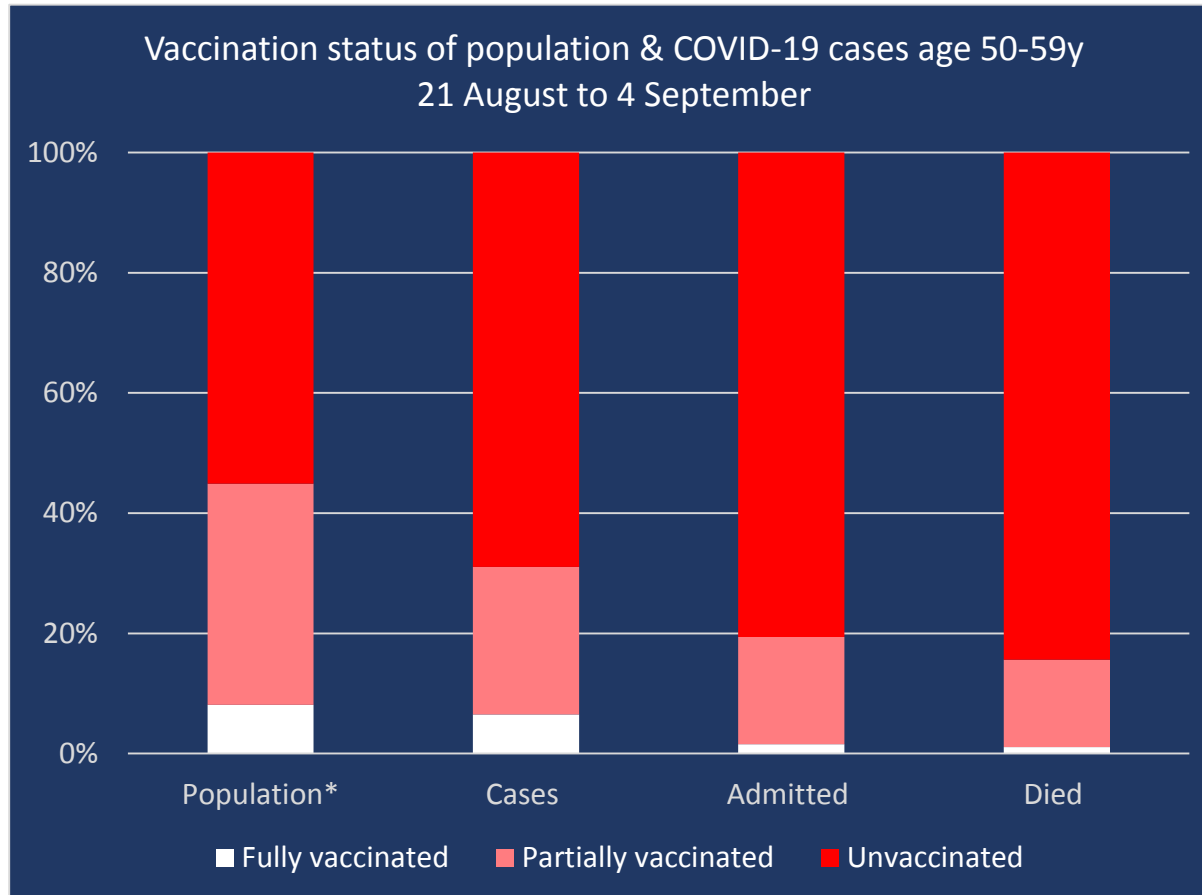
Vaccine effectiveness of full & partial vaccination: age 60y+



- Data continues to show strong protection of full vaccination against severe disease and death.
- Partial vaccination is also protective but less so than full vaccination.
- No evidence of increased risk of COVID-19 infection, severe disease or death in the few weeks immediately following vaccination.

*Population vaccine coverage as at 14 Aug 2021; Fully vaccinated: ≥ 14 d post 2nd Pfizer or ≥ 28 d post J&J; Partially vaccinated: < 14 d post 2nd Pfizer or 0-27d post J&J

Vaccine effectiveness of full & partial vaccination: age 50-59y

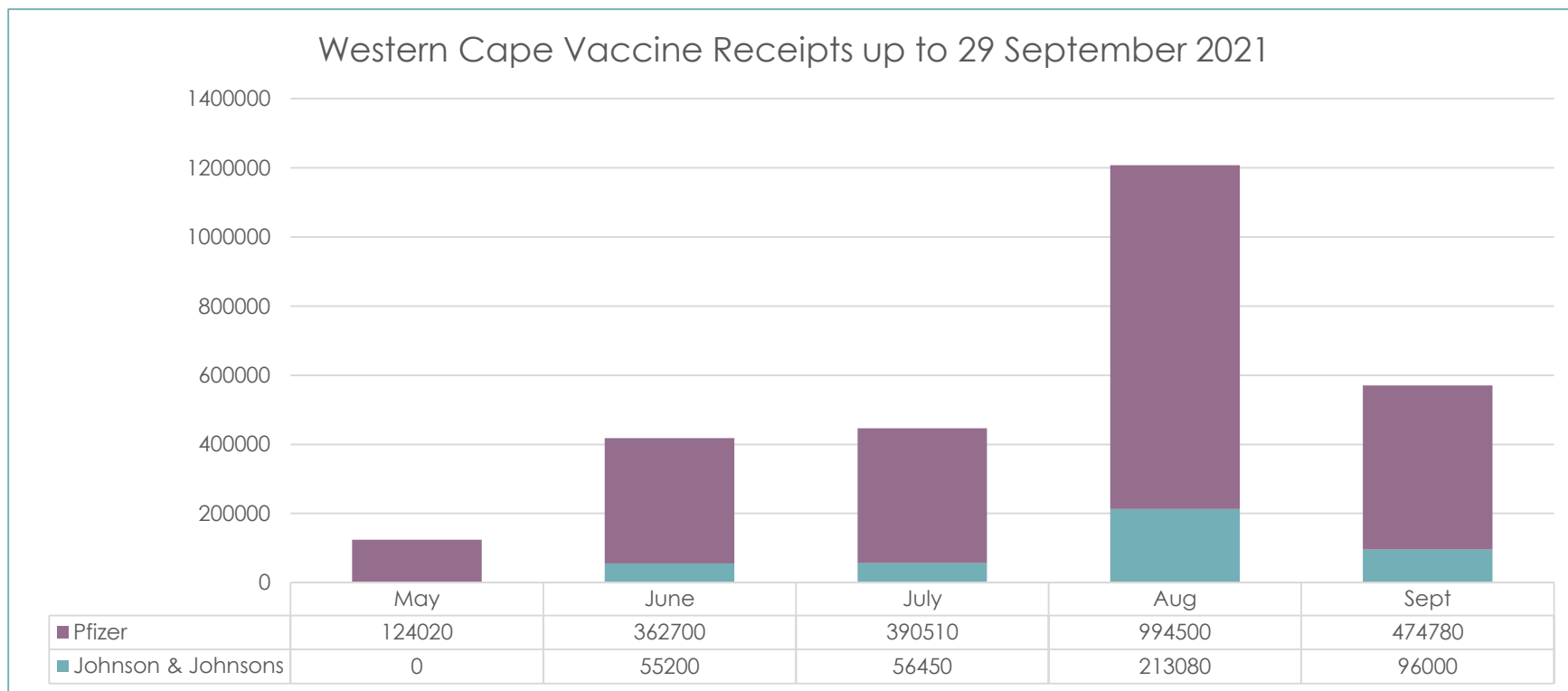


- Very few (<10%) 50-59yo fully vaccinated by mid-August but already can see protection of both full and partial vaccination in this age group.
- No evidence of increased risk of COVID-19 infection, severe disease or death in the few weeks immediately following vaccination.

*Population vaccine coverage as at 14 Aug 2021; Fully vaccinated: ≥ 14 d post 2nd Pfizer or ≥ 28 d post J&J; Partially vaccinated: <14 d post 2nd Pfizer or 0-27d post J&J

Vaccine Implementation update

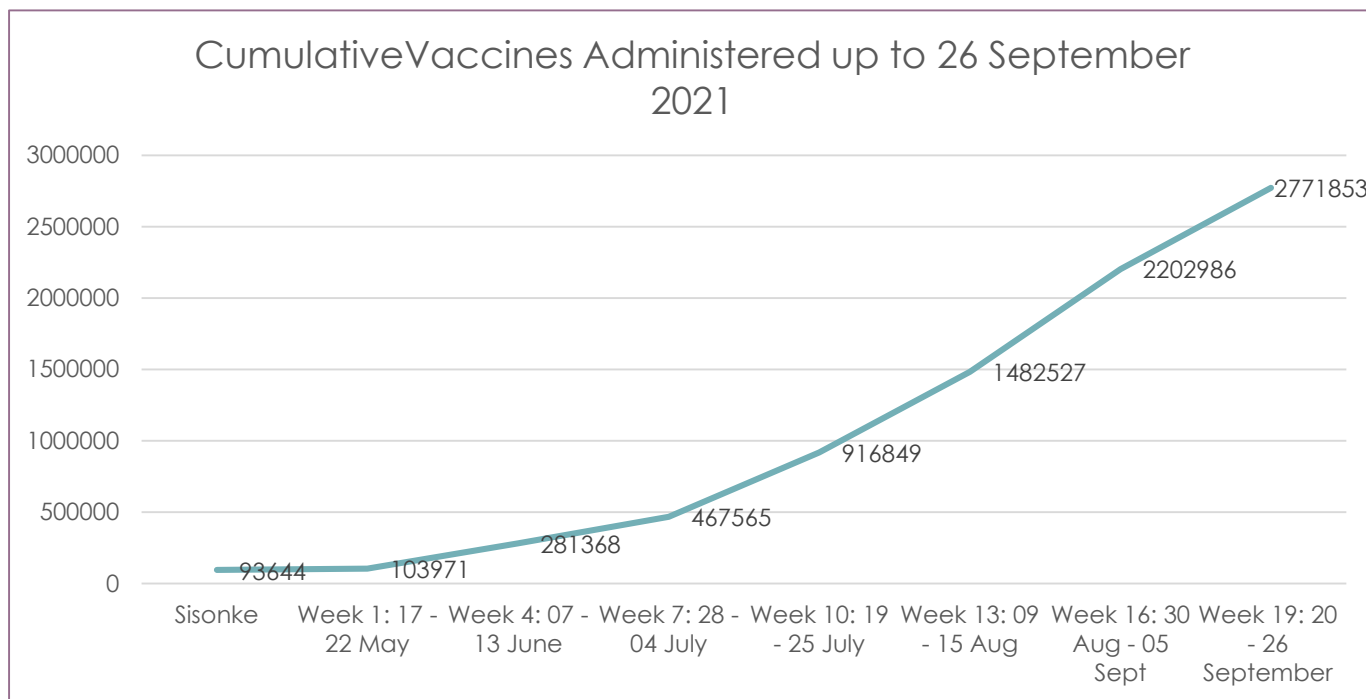
Updated W Cape Public Sector Vaccine Supply Pipeline



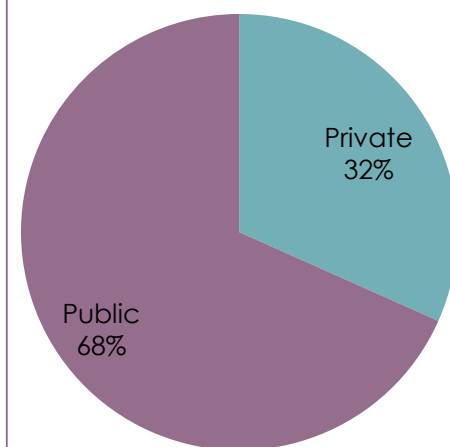
Up to 29 September 2021, the public sector has received **2 767 240** vaccine doses:

- 2 346 510 Pfizer doses
- 420 730 J&J doses

Vaccines Administered



Proportion Vaccines Administered: Public and Private Sectors

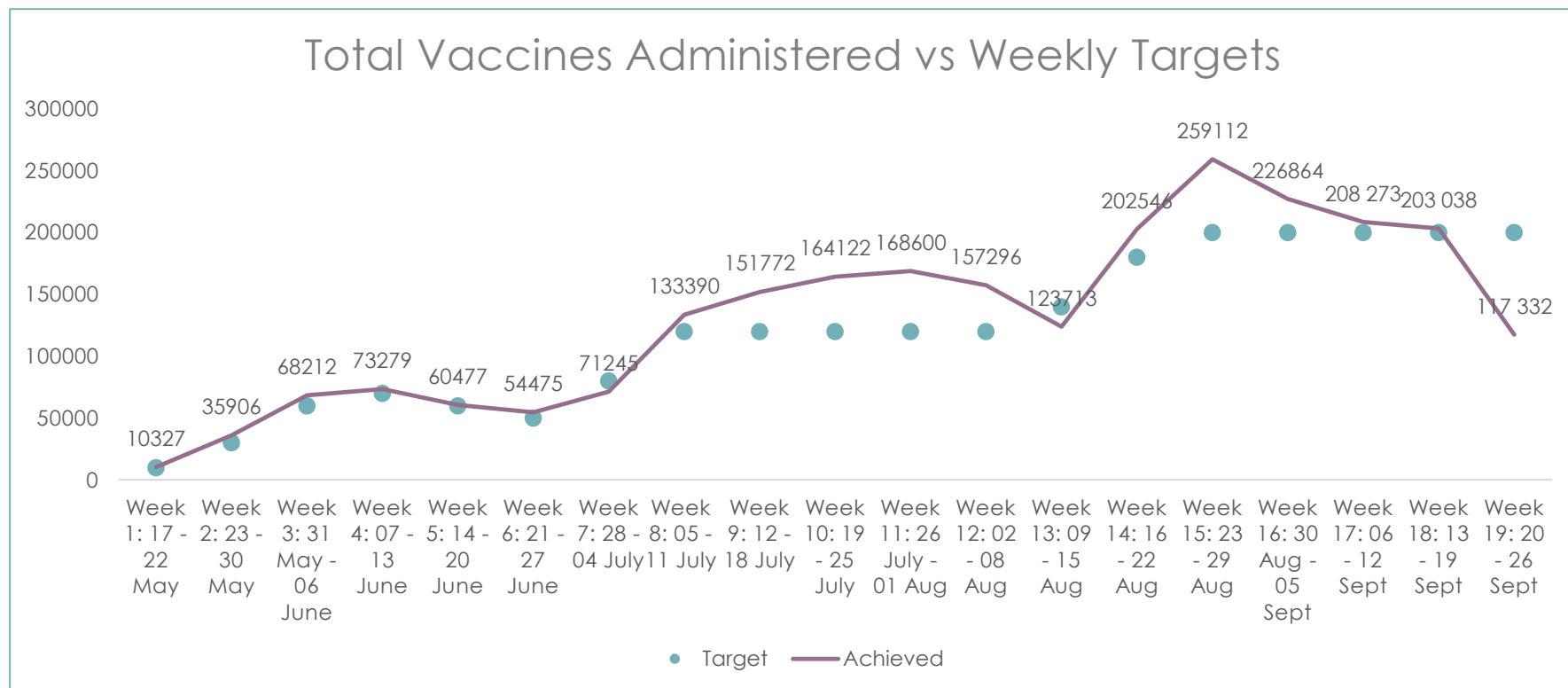


Cumulative Vaccines Administered on EVDS on 29 September 2021 = 2 851 485

Source: NDoH Dashboard ([Microsoft Power BI](#)) accessed on 29 September 2021 @ 20:00

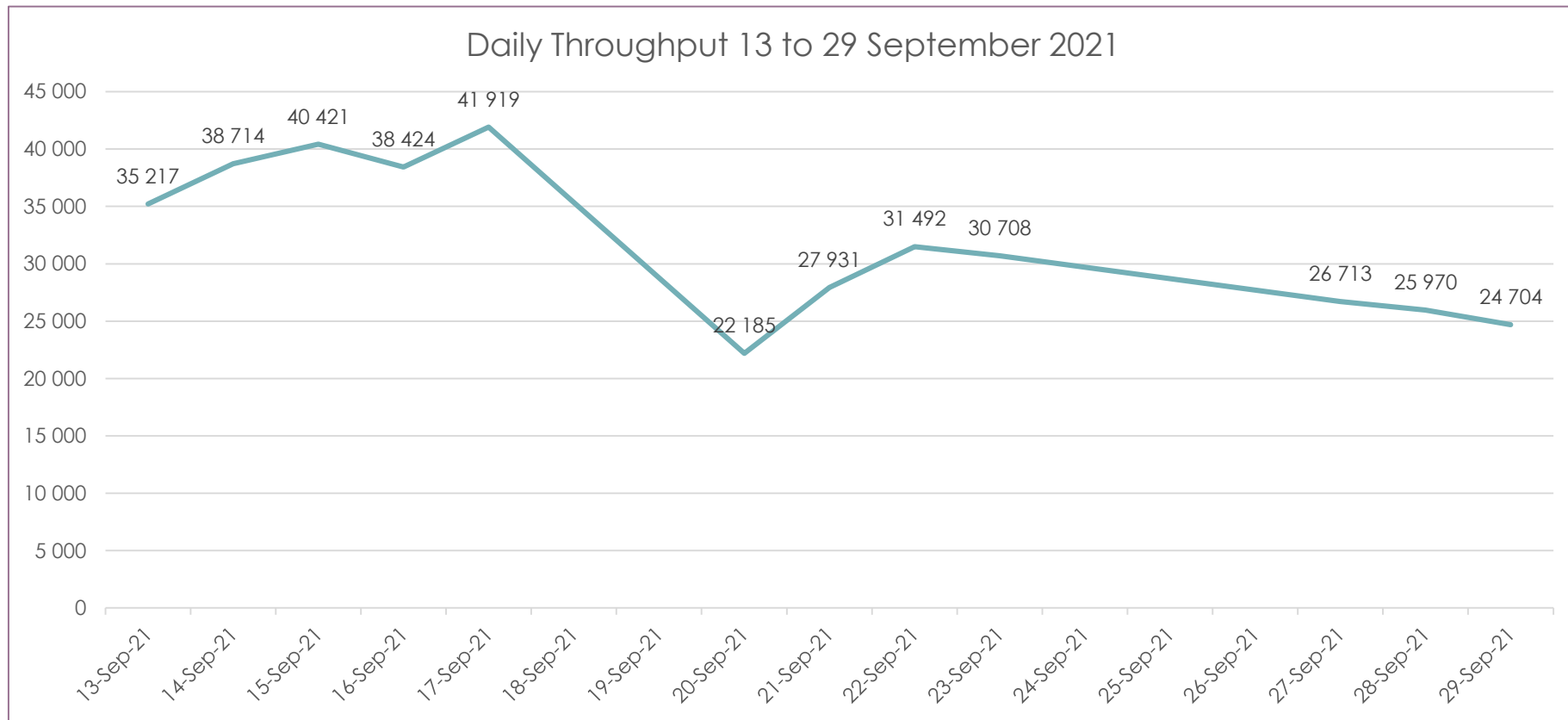
[Disclaimer: Data displayed in these graphs and tables only contains records captured on EVDS. Totals will be adjusted as back-capturing and data validation is done.]

Vaccines Administered per week vs Weekly Targets



Registration and Vaccination efforts must be strengthened to ensure that the province is able to achieve the weekly target of 200 000.

Daily Throughput trend for 13 - 29 September 2021



Weekend/Public Holiday data has been excluded from this graph as throughput over weekends are generally lower than weekdays.

Strategic Focus: Adjusting Aim



Promoting Equity

Increase access to registration and vaccination sites

Community-level interventions

Target identified geographic areas



Demand Creation

Retain focus on **>50 years as the most vulnerable** population group

Neutralise misinformation & strengthen pro-vaccine trusted voices

Target **Business, Government & Civil Society** with specific daily targets



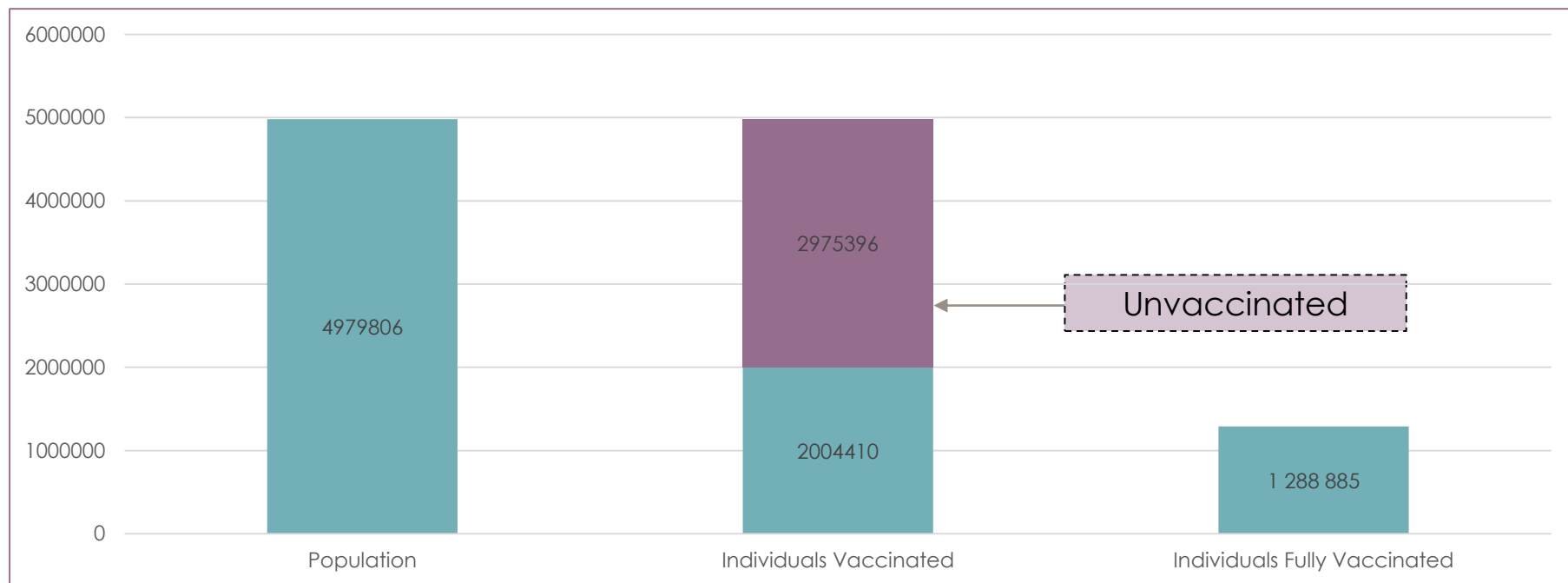
Targeted Approach

Focus on **geographic areas** with low vaccine uptake

Maximise reach and efficiencies through **increased outreach** services and **pop-up** sites

Rationalise and retain fixed vaccination sites with high throughput and **where appropriately placed**

Going Forward



As on 29 September 2021:

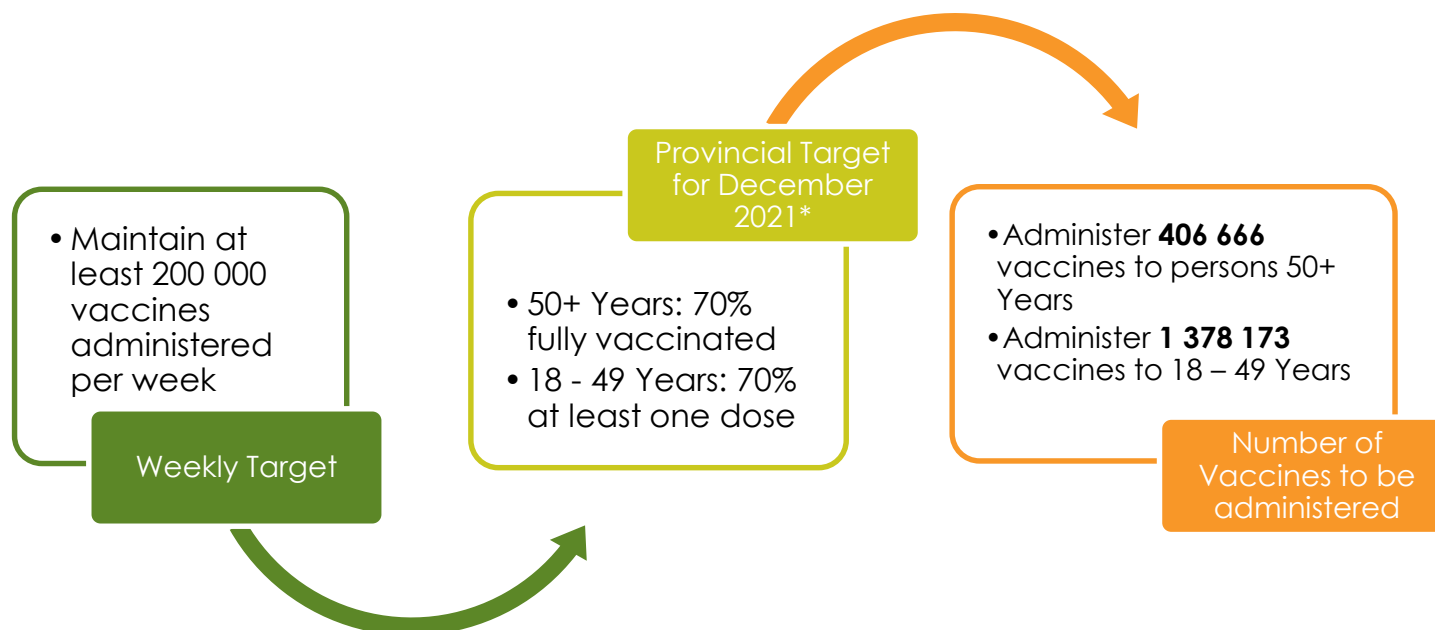
Total number of individuals vaccinated (at least one dose) = 2 004 410 = 40,27% of > 18s (EVDS National Dashboard on 28 Sept 2021)

Total number of individuals fully vaccinated = 1 278 885 = 25,88% of > 18s (EVDS National Dashboard on 28 Sept 2021)

Number of unvaccinated persons aged 18 years and older = 2 975 369

Provincial Targets up to December 2021

Age in years	Total Population	Proportion <u>Partially Vaccinated</u> (One dose of two-dose regimen received) as on 27 September 2021	Proportion <u>Fully Vaccinated</u> (Received either 1 dose J&J or 2-dose Pfizer) as on 27 September 2021	Proportion <u>Unvaccinated</u> as on 27 September 2021
60+	719 702	8%	58%	34%
50 – 59	682 550	11%	43%	46%
18 - 49	3 577 554	16%	15%	69%



- NDoH Targets for all Provinces
- Definition of Vaccinated Individual: One dose J&J (single-dose regiment) or Pfizer (two-dose regiment) 1st dose administered
- Definition of Fully Vaccinated Individual: One dose J&J (single-dose regiment) or Pfizer (two-dose regiment) 1st and 2nd dose administered

Vooma Weekend



Kick-start our summer by taking your COVID-19 vaccine: It's quick, easy & free.

- Happening on the 2nd and 3rd of October
- Look out for over 120 vaccination sites open this weekend. Let's get protected before the festive season.
- If you are 18 or older, don't wait any longer! Go and get vaccinated.

In support of our SavingOurSummer, SmileFM will broadcast live from the Watergate Mall vaccination site in Mitchells Plain on 2nd October.

01

2 – 3 October 2021

02

More than 120
vaccination sites

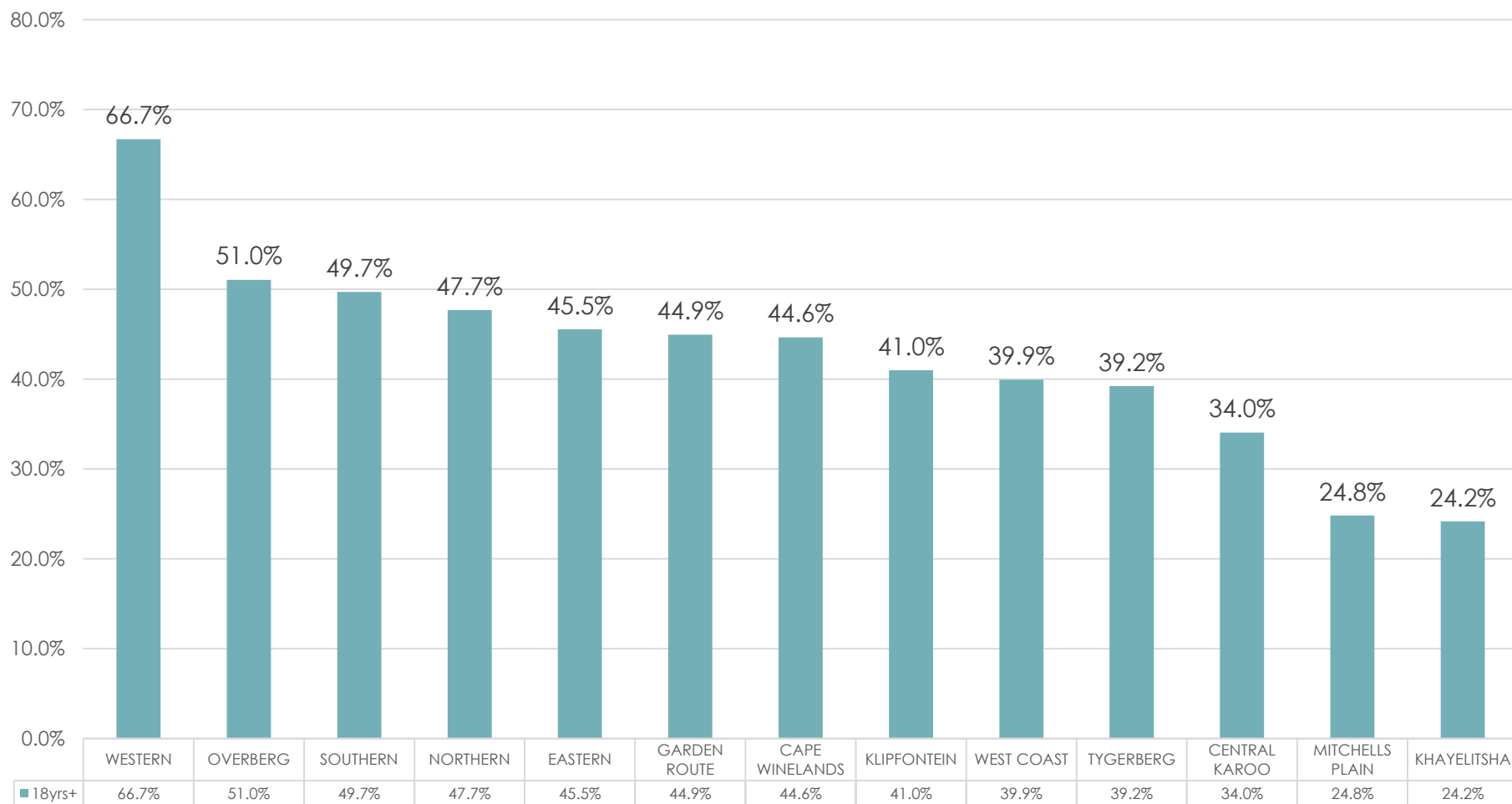
03

On-site registration
& Vaccination

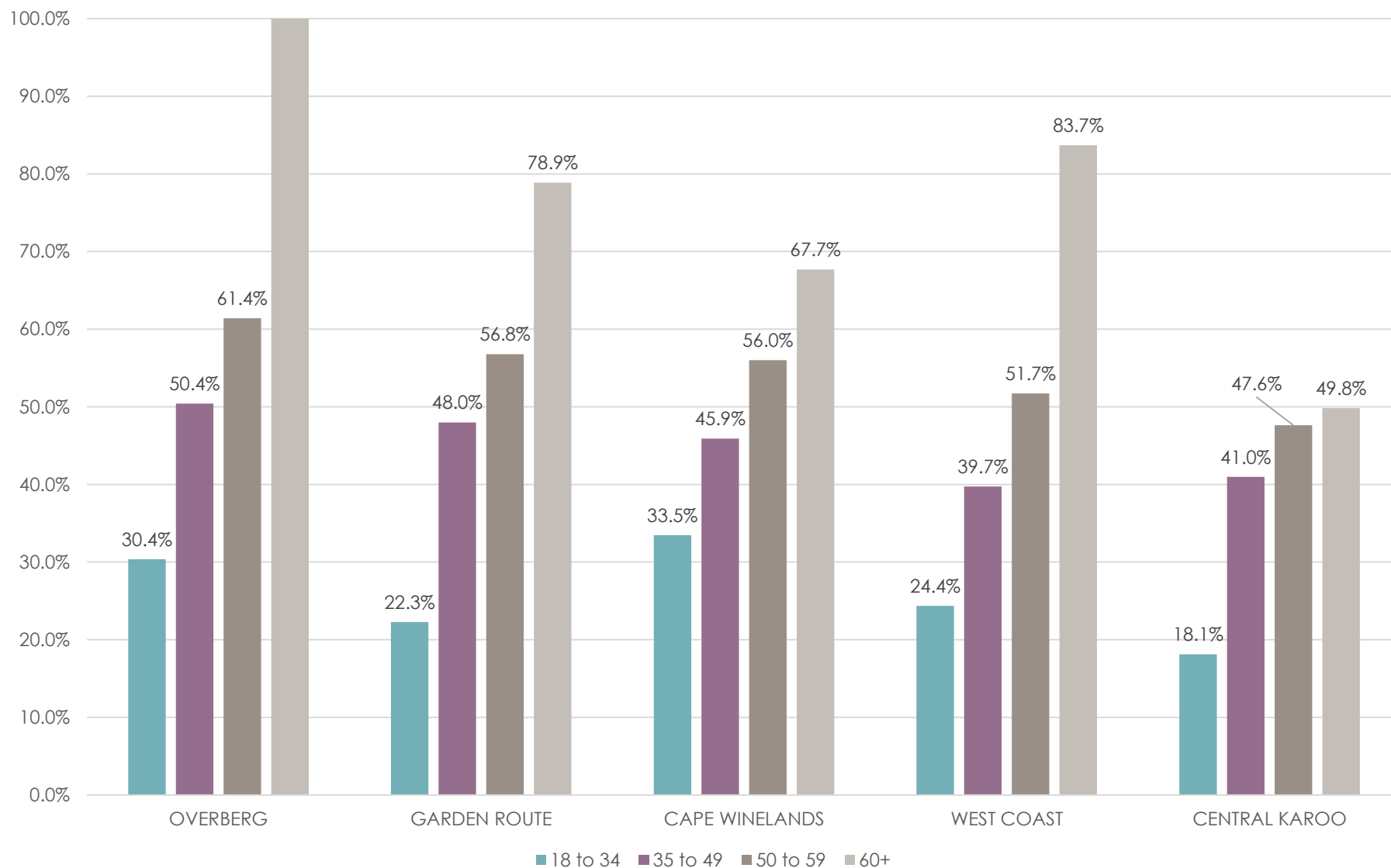
EVDS Registrations: +18 years as at 29 September 2021

Western Cape: 43.06% (2 138 380)

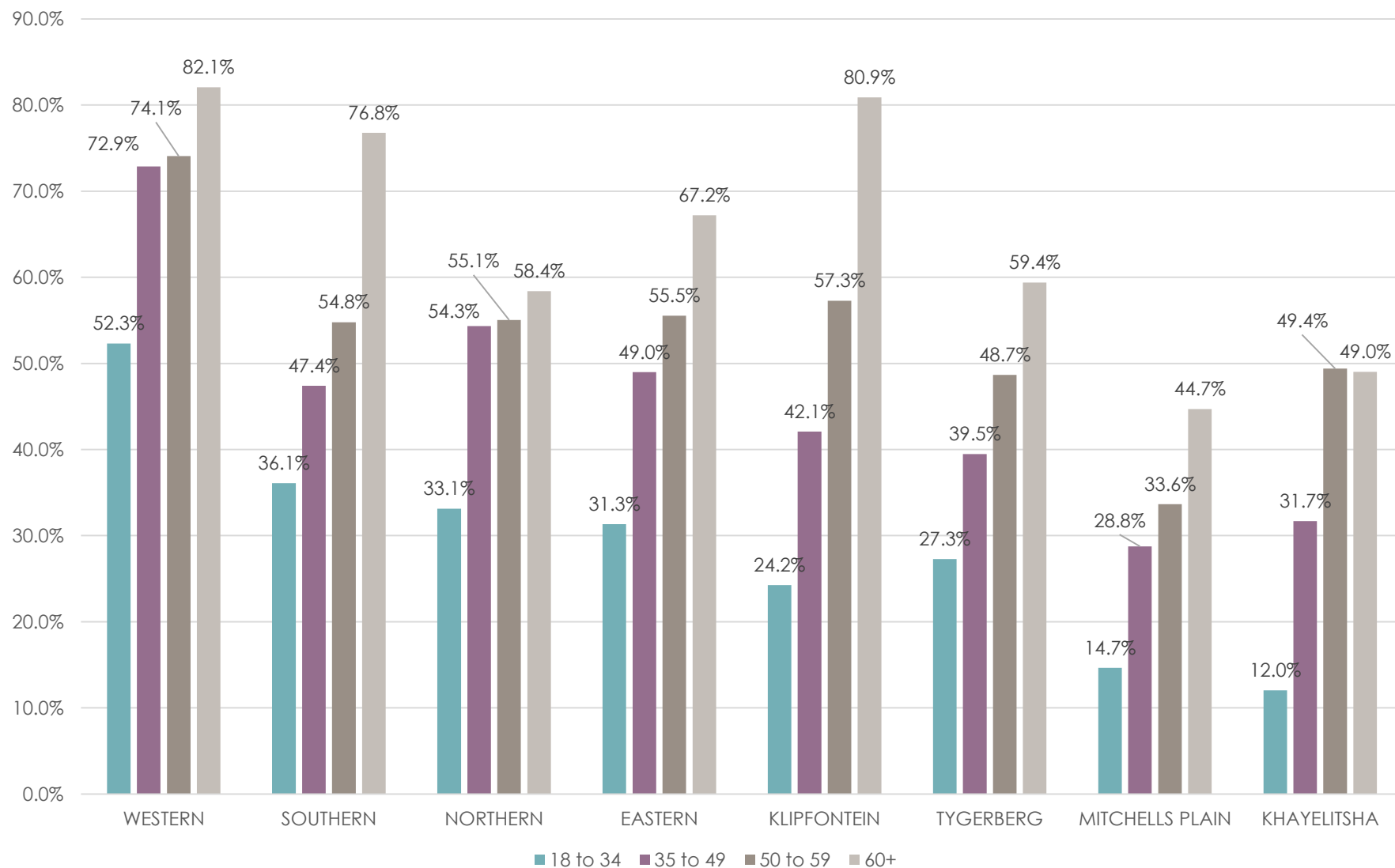
28.1% (18yrs to 34yrs) **45.4%** (35yrs to 49yrs) **54.3%** (50yrs to 59yrs) and **70.1%** (60yrs+)



Rural Districts: Registrations by age cohorts



Metro sub-districts: Registrations by age cohorts



Communications



Addressing misinformation

25 August 2021

Is the COVID-19 vaccine ethical for Christians?

Yes. **The vaccine is not anti-Christ or satanic.** Christian faith leaders and other religious groups support taking COVID-19 vaccines.



We are working with all religious groups to ensure we protect all our communities from COVID-19.

25 August 2021

Will the vaccine change my DNA?

No, the vaccine cannot affect your genetics or DNA. **It's just impossible.**



The vaccine triggers your immune system to make antibodies to fight against COVID-19.


The **vaccine** does not remain in your body but **gets broken down and discarded by your body.**



25 August 2021

Is the COVID-19 vaccine Halaal?

Yes, the Johnson and Johnson (J&J) and the Pfizer/BioNTech vaccines were declared Halaal by the **Muslim Judicial Council (MJC)** and **Jamiatul Ulama South Africa.**



This is due to the formulation and advice received by the **Islamic Medical Association** as well other professionals and stakeholders.

25 August 2021

Is the vaccine used to reduce the population and to track people?

No, the COVID-19 vaccine is not being used to reduce the population and **cannot make you sterile.**



There is **no microchip** nor any substance in the vaccine that can be used to track or control you.



Quick access to vaccination



30 minutes

#forYOU

to Vaccinate at Athlone Stadium

Walk-ins welcome and assisted registration provided
Quick. Easy. Free.



30 minutes

#forYOU

to Vaccinate at CTICC

Walk-ins welcome and assisted registration provided
Quick. Easy. Free.



Western Cape
Government
Health



Miles Julie (19) and Sive Gantsho (25) made use of the drive-through service at Athlone Stadium on their horse cart to get vaccinated.



Western Cape
Government
Health



Important message for summer

SAVE YOUR SUMMER

If you want to be fully vaccinated by the festive season, you have until **20 October** to get your first dose.



It takes approximately **two weeks** from full vaccination (after your 2nd jab) for you to develop maximum immune protection. If you get your first vaccination before **20 October** and your second by **1 December**, you'll have the best protection against COVID-19 during the festive season.

Conclusions

Concluding remarks

1. We have now passed **exited the 3rd wave** with **signs of continuous decline**, but urge everyone to **adhere strictly to protective behaviours**, to **contain** spread over **the coming weeks and months**, in expectation of a **4th wave**.
2. We have **tailored a triggered health** and **societal response** and will refine these tools to trigger appropriate responses **to detect** and **avert** an **early onset of a 4th wave**.
3. We have **scaled up** our **vaccination capacity** to **administer vaccines**. We have the capacity **to vaccinate 40 - 50 000 people/day**, but **now require a massive whole of society effort to generate demand**.
4. We need to scale our **mobilisation and assist everyone >18 years** to be **registered on the EVDS**, and **to be vaccinated**, in a **targeted and intentional approach**, to **restore our economy**, and **normalise societal functioning**.

Thank you