

## Daily Epidemiological Report for SARS-Cov-2

Report No. 411

Date Issued: 19 May 2021 @ 20h45

### 1. PURPOSE

The report provides a descriptive analysis of SARS-Cov-2 related cases and deaths, and hospitalizations in the Eastern Cape Province, as of 19 May 2021.

### 2. HIGHLIGHTS

#### 2.1. New cases, active cases, and recoveries

- Since the previous week was characterized by a rapid increase (by > 50%) of the new and active cases. The province reported more than 5 cases per 100,000 populations, including 5 districts, i.e. BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman. On average, more than 40 new cases were reported per day.
- In the past 24 hours, 125 new cases and 3 deaths were reported. The cumulative number of cases and deaths were **196,798** and **11,628** respectively.
- Of the 125 new cases, 50 were from NM Metro, followed by Chris Hani (36 cases), Sarah Baartman (18 cases), BC Metro (8 cases), Joe Gqabi (7 cases), OR Tambo (3 cases), Alfred Nzo (2 cases) and Amathole (1 case).
- Of the 463 active cases, 290 cases (62.6%) were from NM Metro and Sarah Baartman; followed by 118 cases (25.5%) from Amathole, BC Metro and Chris Hani; 22 (4.8%) from Joe Gqabi, AND 8 (1.7%) from Alfred Nzo and OR Tambo. Thirty (30) cases (9.2%) were detected from the vessels which are in PE Harbor.
- The recovery rate for the SARS-Cov-2 cases was 93,9%.

#### 2.2. SARS-Cov-2 related deaths

- In the past 24 hours, 3 deaths were reported. The case fatality rate was 5.9%, i.e. 6.3% reported among males and 5.7% females.

### **2.3. Hospitalizations and outcomes**

- In the past 24 hours, 12 hospitalizations were reported to have occurred in the public sector. Cumulatively, hospitalizations were 31,783. Public sector accounted for 22,248 (70%) hospitalizations, and private sector for 9,535 (30%).
- Sixty-five percent (64.8%), i.e. 20,606 of hospitalized patients were discharged alive and 13,453 (65.3%) occurred in public sector. Thirty percent (29.8%) of hospitalized cases, i.e. 9,478 demised and 7,187 (75.8%) occurred in public sector facilities.
- The number of currently admitted hospitalizations was 87, i.e. 52 in private and 35 in public sector facilities. Both sectors reported 74 hospitalizations in the General Ward, and most of the cases on oxygen were in the public sector.
- Of the 87 currently admitted, 74 (85.1%) were admitted in the General Ward, 10 (11.5%) in ICU (in private sector), 3 (3.4%) in High Care, 23 (26.4%) on oxygen (19 in public & 4 in private) and 1 (1.1%) was on ventilation.

### **2.4 Healthcare workers**

- The number of HCWs who tested SARS-Cov-2 positive was 12,009 and 307 persons demised. Most of the health workers who tested positive for SARS-Cov-2 were nurses, followed by doctors and clinical associates.
- The number of healthcare workers who tested positive for SARS-Cov-2 was from NM Metro, followed by BC Metro.

### **2.5 Conclusion**

A rapid increase in the number of new and active cases was observed in the previous week. Four districts (9 Local Municipalities) reported more than 5 cases per 100,000 populations.

- BC Metro - Bisho /King Williams Town & East London.
- Chris Hani – Inxuba yethemba LM.
- NM Metro - Sub-district C.
- Joe Gqabi - Walter Sisulu LM
- Sarah Baartman – Dr Beyers Naude LM, Kouga LM, Ndlambe LM & Sundays River Valley LM.

There is a need to ensure that non-pharmaceutical preventive measures are implemented, increase case detection, enhance contact tracing, and case management.

### 3. SARS-Cov-2 CASES & DEATHS

#### 3.1. Summary of all cases and deaths

In the past 24 hours, 125 new cases and 3 deaths were reported. The cumulative number of cases and deaths were **196,798** and **11,628** respectively.

	No. of cases	New Cases	Total	%	Deaths	New Deaths		Total	CFR (%)
						*Newly Reported	**Newly occurred		
Male	77884	65	77949	39,6	4912	0	2	4914	6,3
Female	118769	60	118829	60,4	6713	0	1	6714	5,7
Unknown	20	0	20	0,0	0	0		0	0,0
<b>Total</b>	<b>196673</b>	<b>125</b>	<b>196798</b>	<b>100,0</b>	<b>11625</b>	<b>0</b>	<b>3</b>	<b>11628</b>	<b>5,9</b>

\* Deaths that occurred more than 48 hours ago \*\* Deaths that occurred within the last 48 hours of reporting

Six percent (5.9%) of the cases demised, and 6.3% were males and 5.7% were females.

District	Cases	New Cases	Total Confirmed	Recoveries	Deaths	New Deaths		Total Deaths	CFR (%)	Recovery Rate	Active Cases
						*Newly Reported	**Newly occurred				
Alfred Nzo	8041	2	8043	7550	491	0	0	491	6,1	93,9	2
Amathole	19411	1	19412	18295	1110	0	0	1110	5,7	94,2	7
BC Metro	39142	8	39150	36733	2362	0	0	2362	6,0	93,8	55
Chris Hani	19696	36	19732	18075	1600	0	1	1601	8,1	91,6	56
Joe Gqabi	7640	7	7647	7131	494	0	0	494	6,5	93,3	22
NM Metro	56503	50	56553	52990	3341	0	2	3343	5,9	93,7	220
OR Tambo	22496	3	22499	21114	1379	0	0	1379	6,1	93,8	6
S Baartman	21940	18	21958	21040	848	0	0	848	3,9	95,8	70
Imported	676	0	676	652	0	0	0	0	0,0	96,4	24
Unspecified	1128	0	1128	1127	0	0	0	0	0,0	99,9	1
<b>E. Cape</b>	<b>196673</b>	<b>125</b>	<b>196798</b>	<b>184707</b>	<b>11625</b>	<b>0</b>	<b>3</b>	<b>11628</b>	<b>5,9</b>	<b>93,9</b>	<b>463</b>

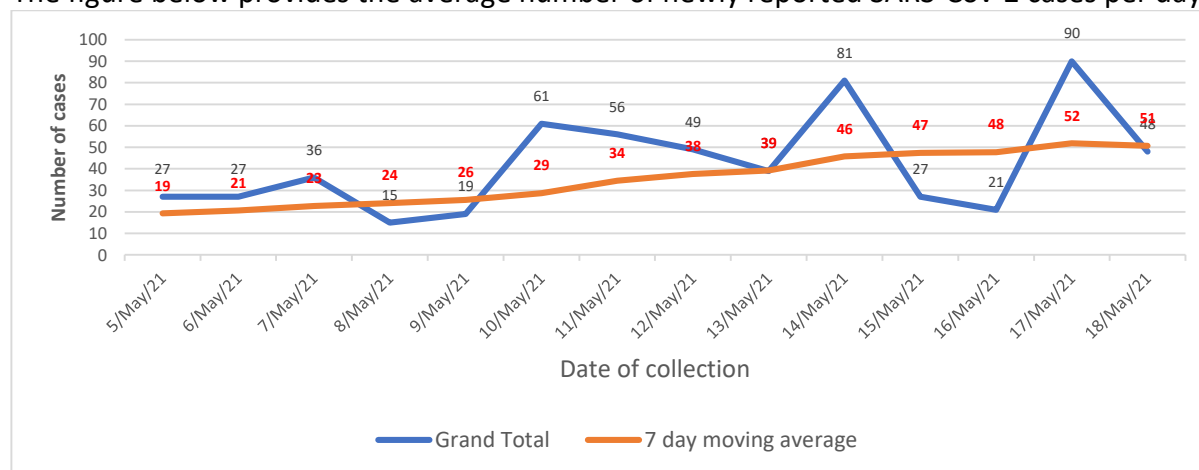
\* Deaths that occurred more than 48 hours \*\* Deaths that occurred within the past 48 hours of reporting

Of the 125 new cases, 50 were from NM Metro, followed by Chris Hani (36 cases), Sarah Baartman (18 cases), BC Metro (8 cases), Joe Gqabi (7 cases), OR Tambo (3 cases), Alfred Nzo (2 cases) and Amathole (1 case).

Of the 463 active cases, 290 cases (62.6%) were from NM Metro and Sarah Baartman; followed by 118 cases (25.5%) from Amathole, BC Metro and Chris Hani; 22 (4.8%) from Joe Gqabi, AND 8 (1.7%) from Alfred Nzo and OR Tambo. Thirty (30) cases (8,2%) were detected from the vessels which are in PE Harbor. The gradual increase in the number of cases has negatively impacted the recovery rate. However, 93,9% of the cases have recovered.

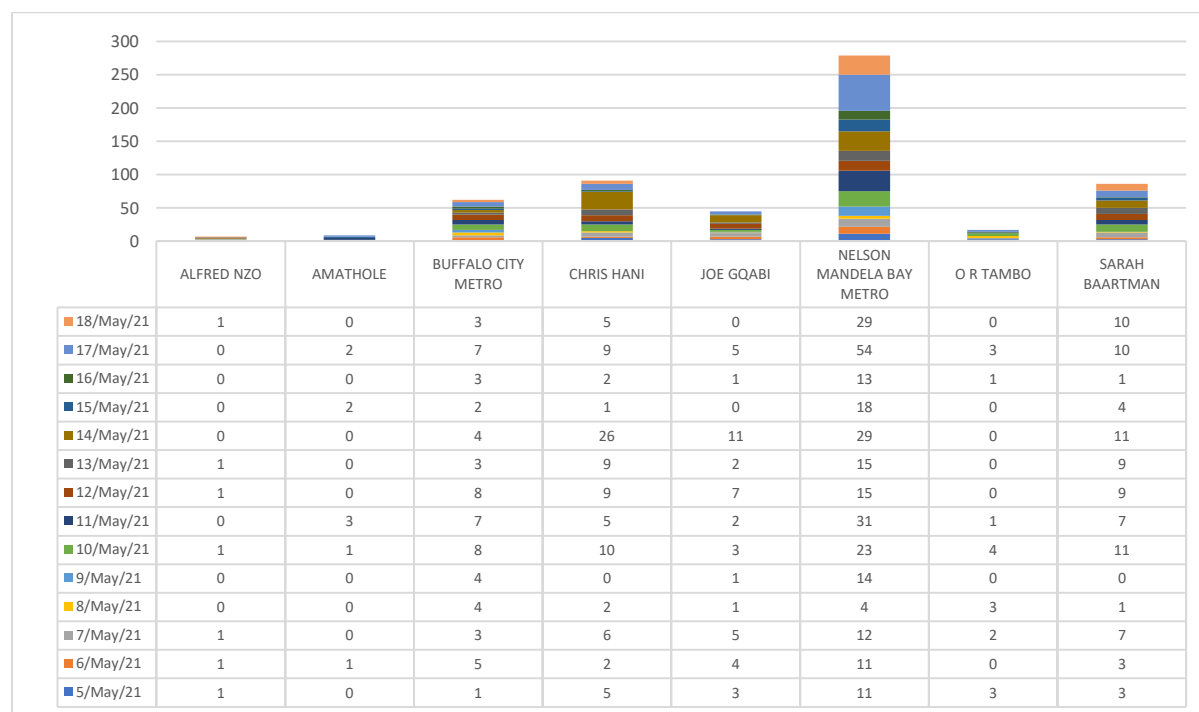
### 3.2. Newly diagnosed cases

The figure below provides the average number of newly reported SARS-Cov-2 cases per day.



**Fig. 1. Daily SARS-Cov-2 cases & 7-day moving average by date of collection, as of 19 May 2021**

The average number of new cases per day has increased by 34.2% from 38 on the 12<sup>th</sup> of May to 51 on the 18<sup>th</sup> of May 2021, using the date of collection.



**Fig. 2. Daily SARS-Cov-2 cases by district and date of collection, as of 19 May 2021**

The number of new cases appears to be increasing in nearly all the districts, especially in NM Metro and BC Metro. There is a gradual increase in the number of cases in Chris Hani, Joe Gqabi and Sarah Baartman. There is a need to improve case detection (including increased testing) and contact tracing and monitoring. Alfred Nzo and OR Tambo still report a low number of newly diagnosed cases.

## 4. SARS-Cov-2 LAB TESTS & RESULTS

### 4.1. Test Results by Laboratory

In the past 7 days, 2229 new tests were reported, which brings the number to 967,972 where 60,8% were reported by the public labs and 39,2% reported by the private labs.

	Private	Public	Total	Percentage (%)	Past 24 hrs
Alfred Nzo	4556	29118	33 674	3,5	30
Amathole	9821	73245	83 066	8,6	72
BC Metro	62909	100629	163 538	16,9	94
Chris Hani	13141	59261	72 402	7,5	399
Joe Gqabi	1281	28141	29 422	3,0	98
NMB Metro	93335	142062	235 397	24,3	321
OR Tambo	30253	68799	99 052	10,2	39
Sarah Baartman	18788	86896	105 684	10,9	93
Unclassified	145737	0	145 737	15,1	1083
<b>Eastern Cape</b>	<b>379821</b>	<b>588151</b>	<b>967 972</b>	<b>100</b>	<b>2229</b>

The number of tests increased by 0.23% when comparing week 18 and 19. An increase in the number of tests was observed in all 8 districts.

### 4.2. Antigen Testing

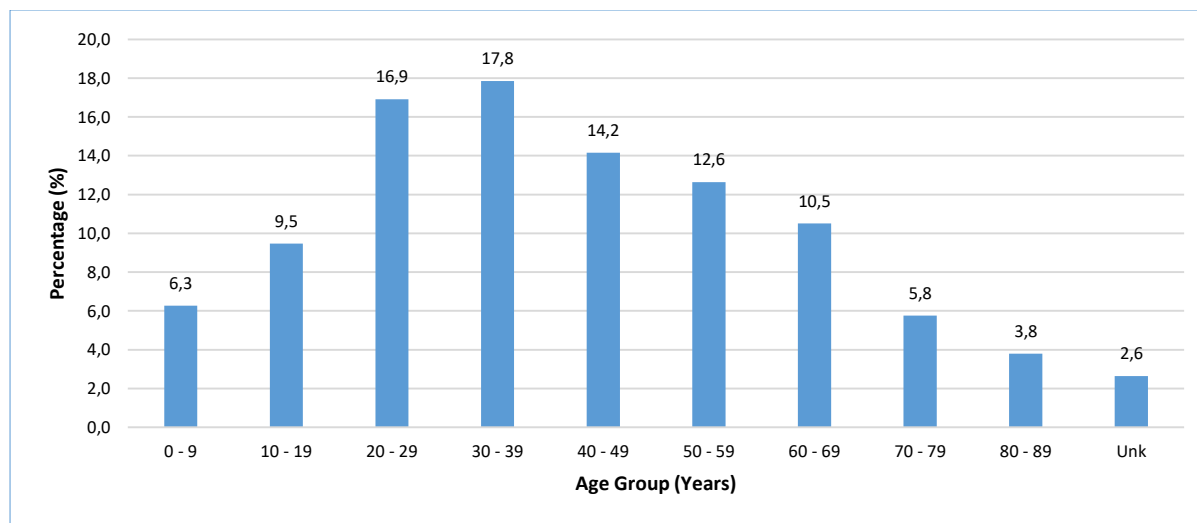
Antigen Test Method was used to test 114,564 specimens with a 7.3% positivity rate. These tests account for 11,8% of all the tests in the province.

	Negative	Positive	Total	Positivity Rate (%)
A Nzo	12934	932	13866	6,7
Amathole	4289	613	4902	12,5
BC Metro	11774	1623	13397	12,1
Chris Hani	9448	1170	10618	11,0
Joe Gqabi	3602	474	4076	11,6
NM Metro	35608	1843	37451	4,9
OR Tambo	21836	1359	23195	5,9
Sarah Baartman	6742	317	7059	4,5
<b>Total</b>	<b>106233</b>	<b>8331</b>	<b>114564</b>	<b>7,3</b>

BC Metro and NM Metro contributed 44.4% of all the antigen tests. Two districts reported a 12% or more positivity rate, i.e. Amathole and BC Metro. The lowest positivity rate was observed in NM Metro and Sarah Baartman.

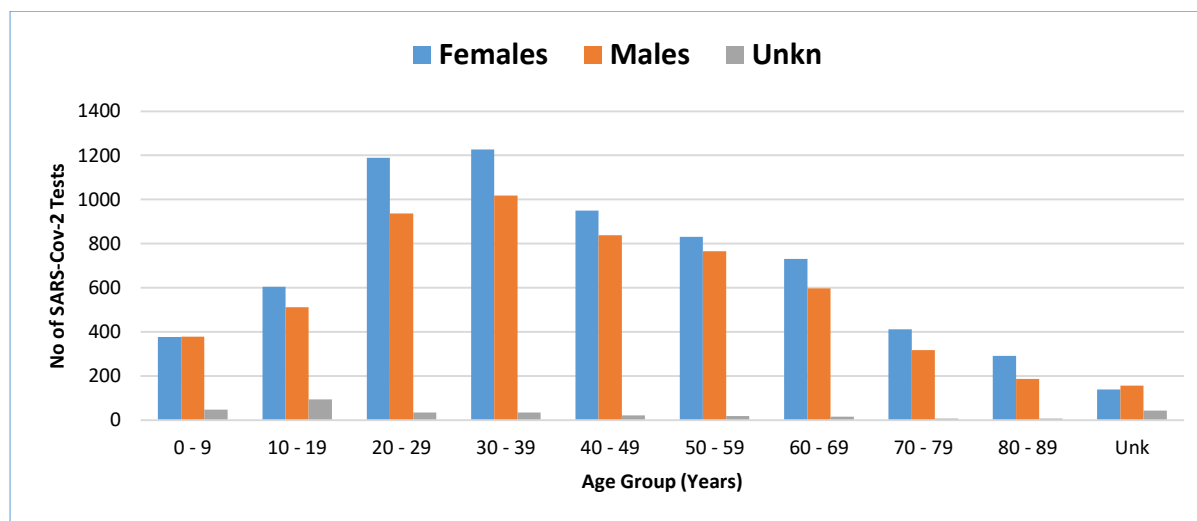
### 4.3. Tests by age group and sex

In the last 31 days, the public sector laboratories tested 12,771 specimens for SARS-Cov-2, with the highest number in the Metros. Sixty-two percent (61.5%) of the tests were among the 20 to 59 year's age group. Thirty-six percent (35.9%) of the tests were among the younger and elderly population.



**Fig. 3. The number of SARS-Cov-2 tests by age group in the last 31 days, as of 18 May 2021**

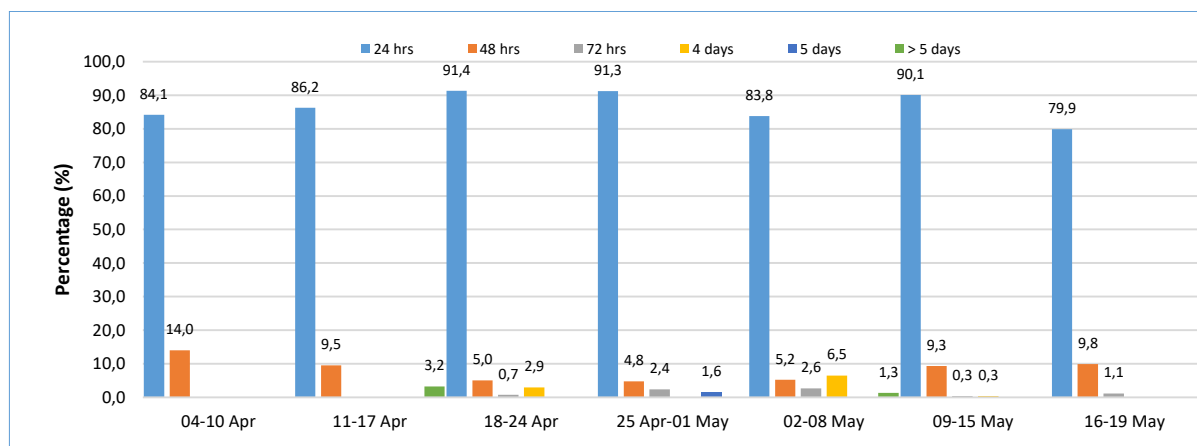
Only 2.6% of the tests did not have information on the age of the person who was tested for SARS-Cov-2.



**Fig. 4. No. of SARS-Cov-2 public sector tests by age group and gender, as of 18 May 2021**

More than half of all the tests (52.8%), which were done in the last 31 days, were predominantly among the female population. Only 44.7% of the tests were among the male population and 2.5% with unknown gender. There were those individuals who were tested for SARS-Cov-2 but did not have information on the age or date of birth.

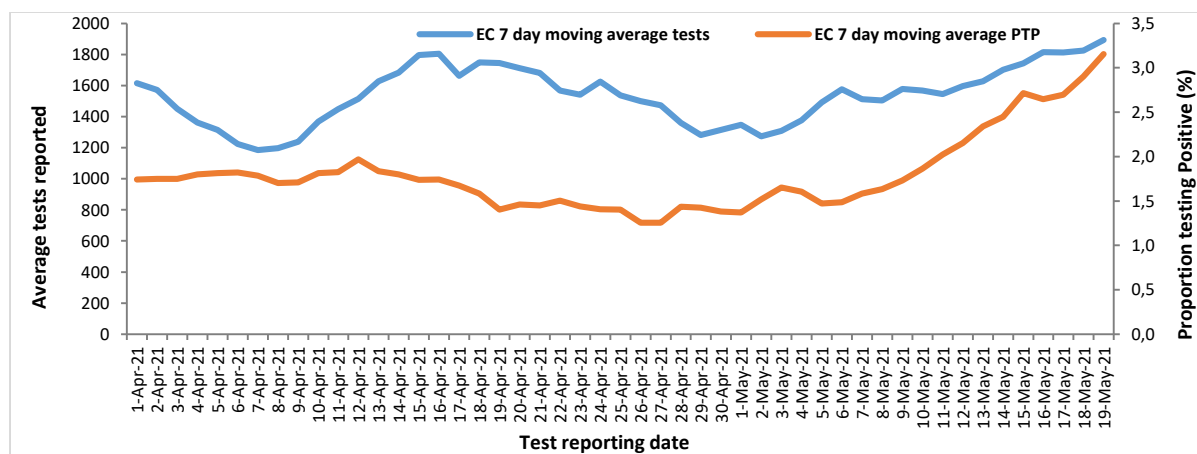
#### 4.4. Turnaround Time



**Fig. 5. Turnaround time for SARS-Cov-2 positive results by week as of 19 May 2021**

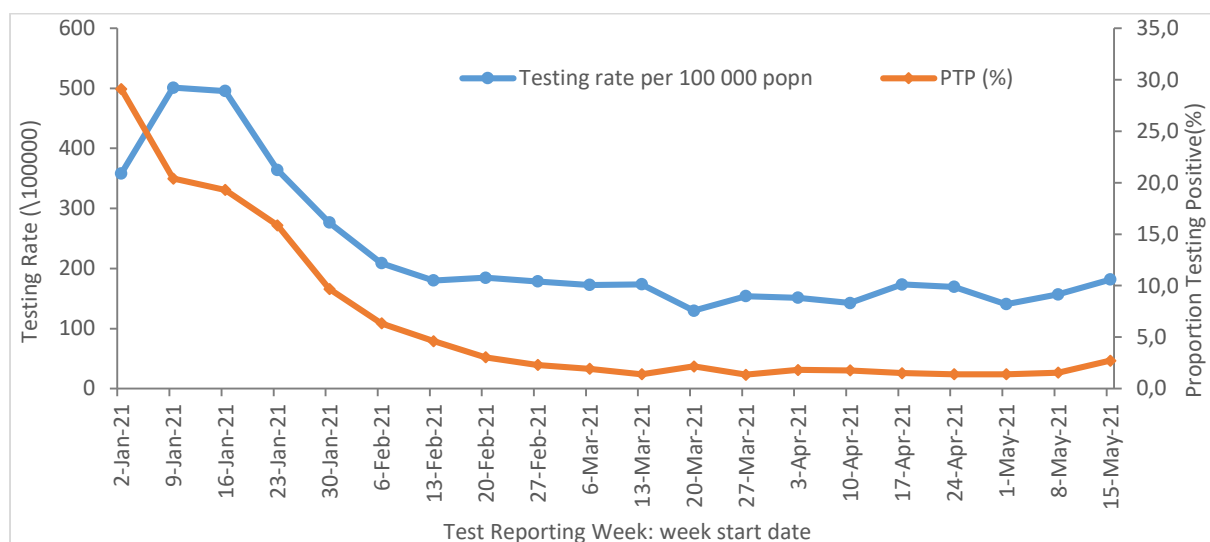
Results that were available within 24 hours has decreased by 11.3% from 90.1% in the previous week to 79.9% in the current week. Results that were available within 48 hours decreased by 9.8% from 99.4% during the previous week to 89.7% in the current week.

#### 4.5. The 7-day moving average of SARS-Cov-2 tests & positivity rate



**Fig. 6. 7-day moving average for SARS-Cov-2 tests & positivity rate, as of 19 May 2021**

In the past 7 days, the number of SARS-Cov-2 tests has increased by 16.3% from 1,628 on the 13<sup>th</sup> of May to 1,893 on the 19<sup>th</sup> of May 2021. The number of tests per day has increased by 16.7% from 24 tests to 28 tests per 100,000 population per day. The positivity rate has increased by 39.1% from 2.3% to 3.2% during the same period.

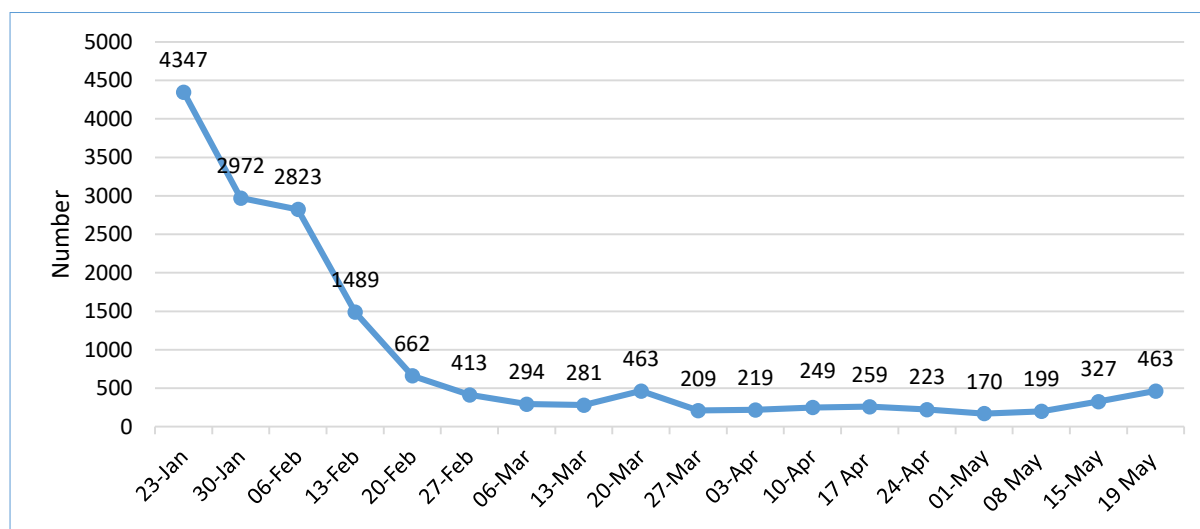


**Fig. 7. Testing Rate for SARS-Cov-2 by week for past 20 weeks, as of 15 May 2021**

The testing rate for SARS-Cov-2 has increased by 15,9% from 157 tests per 100,000 on the 01<sup>st</sup> May to 182 tests per 100,000 on the 15<sup>th</sup> of May. The testing rate has remained below 200 tests per 100,000 per week from the 13<sup>th</sup> of February. There is a need to improve the testing rate to increase the ability of the surveillance system to detect cases.

## 5. ACTIVE CASES, INCIDENCE & POSITIVITY RATE

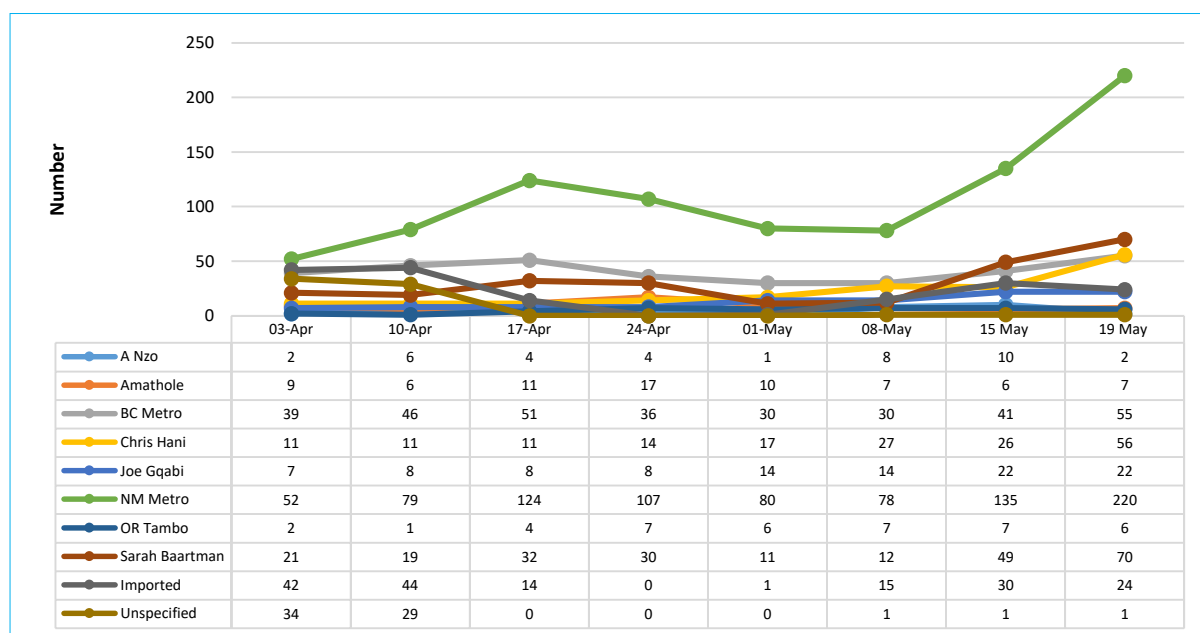
### 5.1. Active SARS-Cov-2 Cases



**Fig. 8. Number of active SARS-Cov-2 cases by week, as of 18 May 2021**

The number of active cases has increased by 64,3% from 199 on the 08<sup>th</sup> to 327 on the 15<sup>th</sup> May 2021. Over the past 24 hours, the number of active cases increased by 24.5% from 372 to 463. There is a need to improve the implementation of non-pharmaceutical preventive measures with the vaccination services.





**Fig. 9. Number of weekly Active SARS-Cov-2 cases by district, as of 19 May 2021**

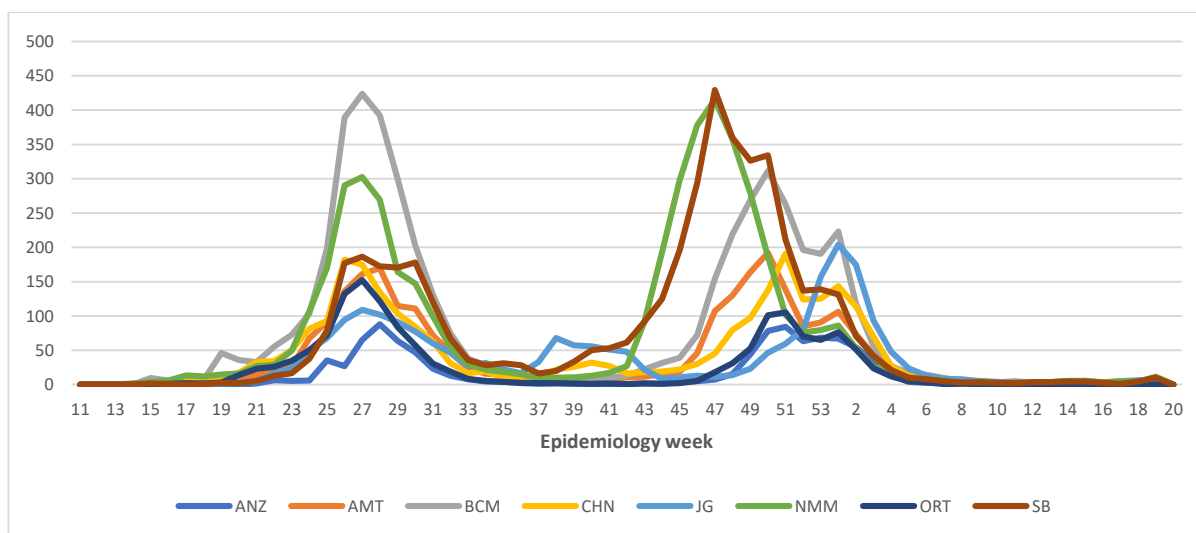
There is a rapid increase in the number of active cases in NM Metro followed by BC Metro and Sarah Baartman.

## 5.2. Active SARS-Cov-2 cases and the cumulative positivity rate

District	Population Estimates	Number of Tests	SARS-Cov-2 Cases (ALL)	Active SARS-Cov-2 Cases	SARS-Cov-2 per 100,000 (Active)	Cumulative Positivity Rate
Alfred Nzo	827826	33 674	8043	2	0,2	23,9
Amathole	798067	83 066	19412	7	0,9	23,4
BC Metro	798798	163 538	39150	55	6,9	23,9
Chris Hani	733743	72 402	19732	56	7,6	27,3
Joe Gqabi	343075	29 422	7647	22	6,4	26,0
NM Metro	1210803	235 397	56553	220	18,2	24,0
OR Tambo	1520922	99 052	22499	6	0,4	22,7
S Baartman	480223	105 684	21958	70	14,6	20,8
Imported		0	676	24	0,0	0,0
Unspecified		145 737	1128	1	0,0	0,8
<b>E.Cape</b>	<b>6713457</b>	<b>967 972</b>	<b>196798</b>	<b>463</b>	<b>6,9</b>	<b>20,3</b>

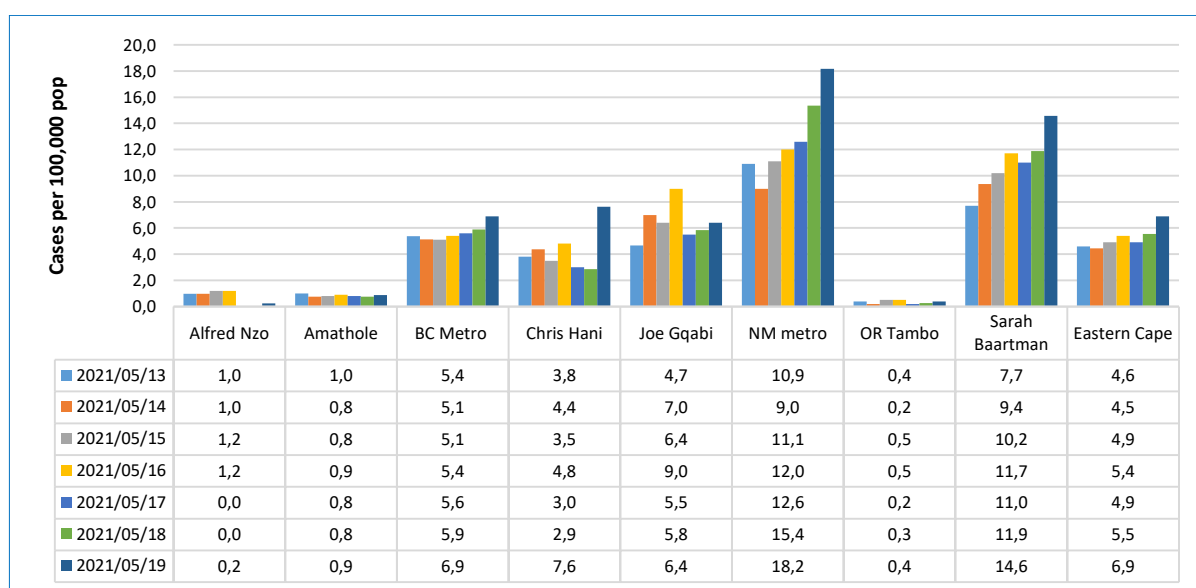
The incidence of SARS-Cov-2 was 6.9 cases per 100,000 populations. Five (5) districts reported more than 5 cases per 100,000 populations, i.e. BC Metro, Chris Hani, Joe Gqabi, NM Metro, and Sarah Baartman. Three (3) districts have less than 5 cases per 100,000 populations, Alfred Nzo, Amathole and OR Tambo districts. The cumulative positivity rate is at 20,3%. All districts have less than a 30% positivity rate.

### 5.3. Incidence of SARS-Cov-2 cases



**Fig. 10. Incidence of SARS-Cov-2 cases by epidemiological week, as of 18 May 2021**

The incidence of SARS-Cov-2 appears to be increasing in most of the districts, especially in the past 7 days.

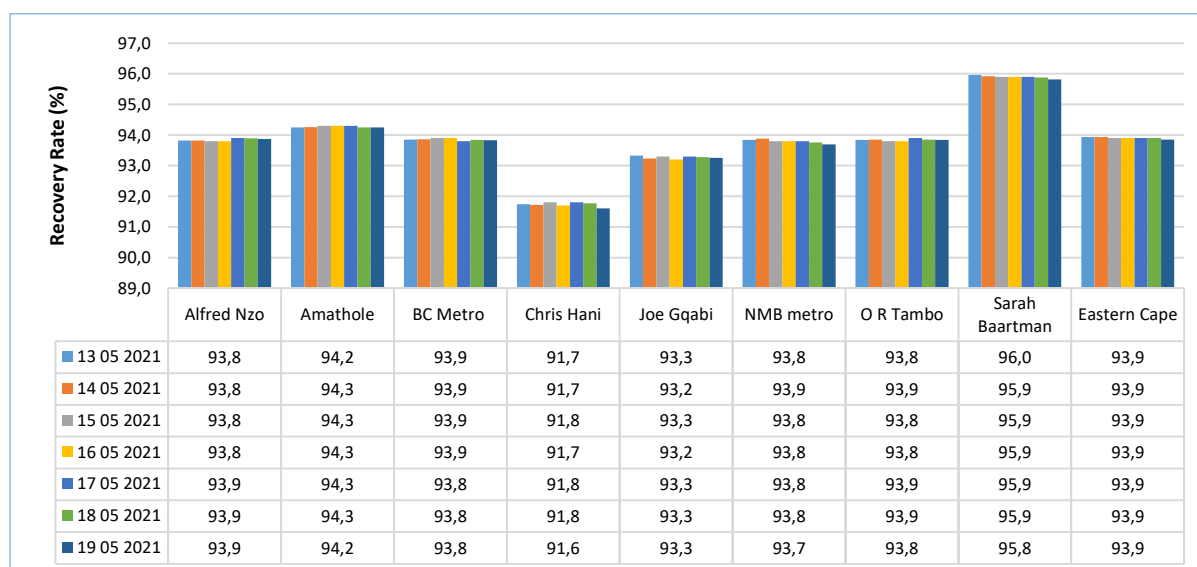


**Fig. 11. Active SARS-Cov-2 cases (per 100,000 pop) by district, as of 19 May 2021**

In the past 7 days, the incidence of SARS-Cov-2 increased by 37.5% from 4.6 cases per 100,000 population to 6.9 per 100,000 population. Three (3) districts have less than 5 cases per 100,000 populations. BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman reported more than 5 cases per 100,000 populations.

## 5.4. Recovery Rate (%)

The provincial recovery rate remained above 90% over the past 7 days. However, it has shown a decrease during the same period.

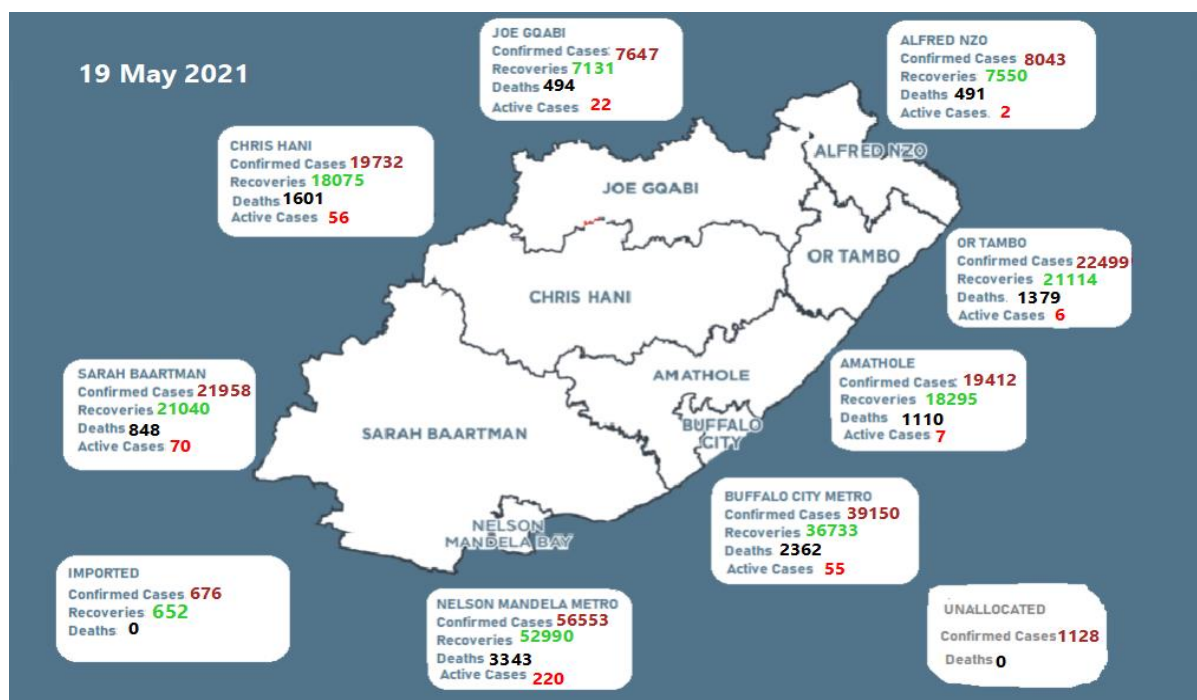


**Fig. 12. SARS-Cov-2 Recovery Rate (%) by districts, as of 18 May 2021 (N=184,707)**

As the number of new and active cases increases, the recovery rate also decreases. There was a 0,1% decrease in the recovery rate from 94% to 93,9%.

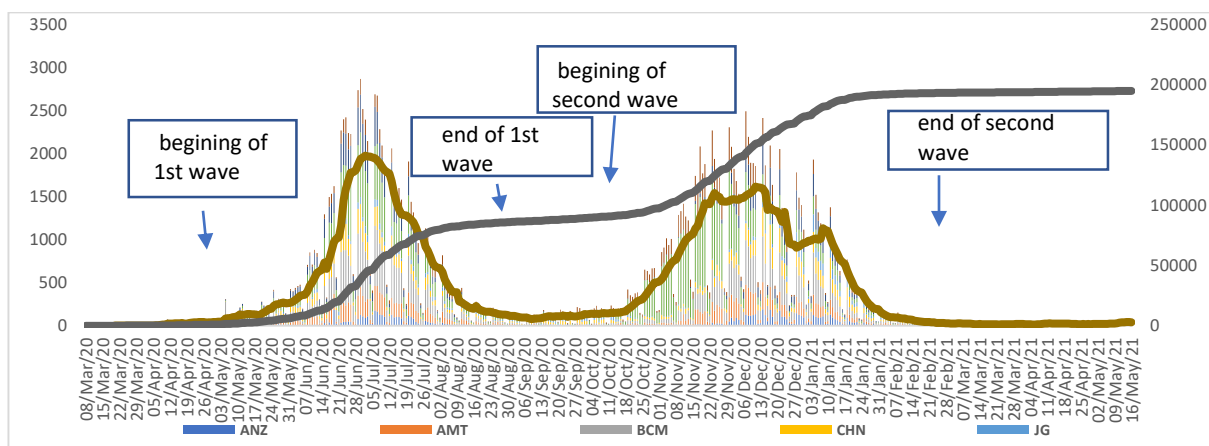
## 5.5. Mapping of active cases, recoveries, and deaths

The map shows the distribution of SARS-Cov-2 active cases, recoveries, and deaths.



**Fig. 13. The number of Covid-19 cases, recoveries, and deaths, as of 19 May 2021**

## 6. SARS-COV-2 CASES AND 7-DAY MOVING AVERAGE



**Fig. 14. The 7-day moving average for Covid-19 cases by date of collection, as of 19 May 2021**

The number of daily newly diagnosed cases increased from the second half of October and peaked in mid-December, and then decreased until to date. The number of cumulative cases appears to have stabilized (known as flattening of the curve).

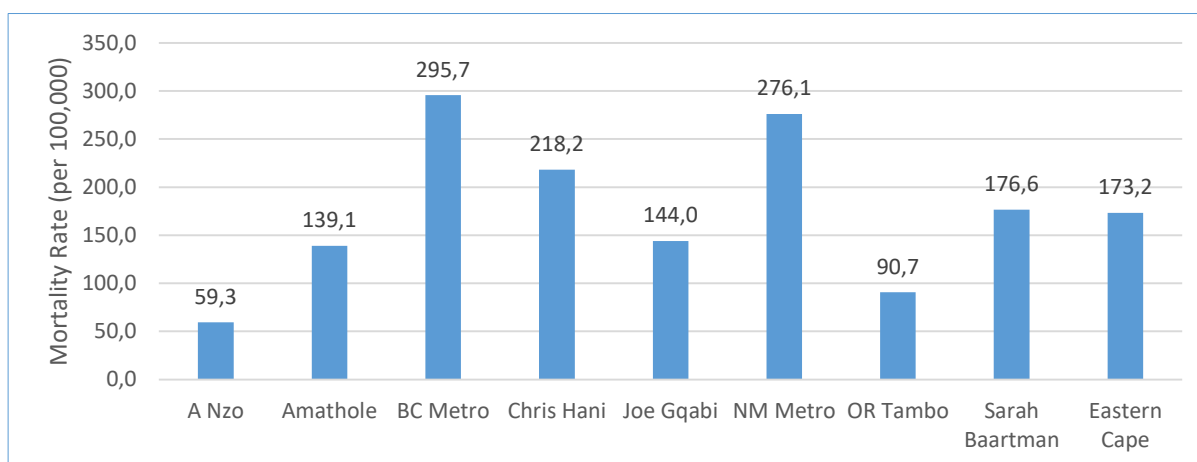
## 7. SARS-Cov-2 RELATED MORTALITY

### 7.1. SARS-Cov-2 related deaths

The table below provides the number of cases, deaths, and mortality rate by the month.

Month	Cases	Deaths	Percent (%)	Case Fatality Rate (%)	Mortality Rate (per 100,000)
Mar-20	13	1	0,0	7,7	0,0
Apr-20	638	35	0,3	5,5	0,5
May-20	3282	285	2,5	8,7	4,2
Jun-20	23793	1036	8,9	4,4	15,4
Jul-20	50291	2035	17,5	4,0	30,3
Aug-20	8295	668	5,7	8,1	10,0
Sep-20	2992	213	1,8	7,1	3,2
Oct-20	8626	287	2,5	3,3	4,3
Nov-20	34232	1710	14,7	5,0	25,5
Dec-20	42757	2777	23,9	6,5	41,4
Jan-21	18168	1917	16,5	10,6	28,6
Feb-21	1705	311	2,7	18,2	4,6
Mar-21	701	107	0,9	15,3	1,6
Apr-21	625	55	0,5	8,8	0,8
May-21	680	46	0,4	6,8	0,7
Unknown	0	145	1,2	0,0	2,2
<b>Total</b>	<b>196798</b>	<b>11628</b>	<b>100,0</b>	<b>5,9</b>	<b>173,2</b>

Twenty-four percent (23.9%) of the deaths occurred in December, 16.5% in January, 2.7% in February, 0.9% in March, 0.5% in April, and 0.4% in May. The Case Fatality Rate was 6.5% in December, 10.6% in January, 18.2% in February, 15.3% in March, 8.8% in April and 6.8% in May. Between November and January, the mortality rate was above 20 per 100,000.

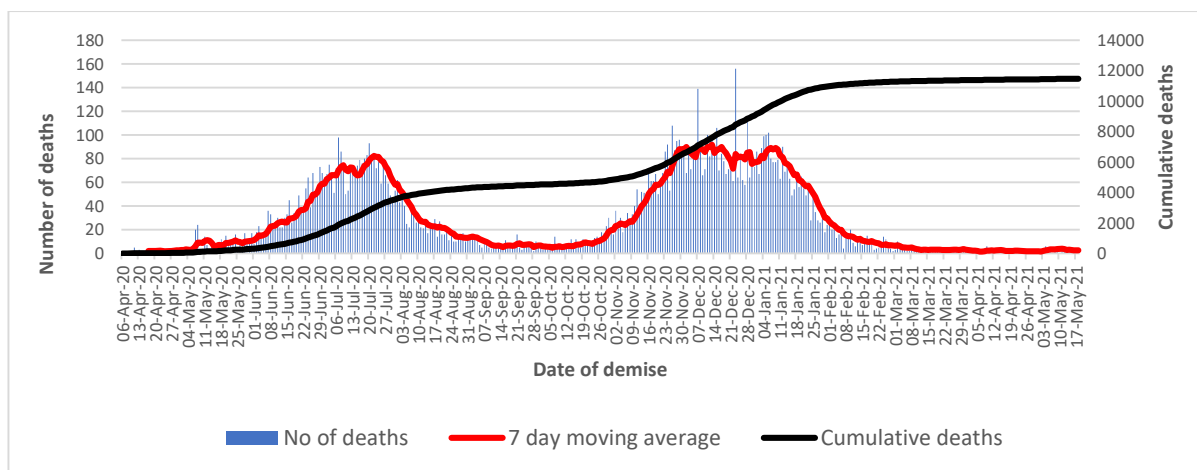


**Fig. 15. SARS-Cov-2 related mortality per 100,000 by district, as of 19 May 2021**

The provincial mortality rate was 173.2 deaths per 100,000 populations. BC Metro reported the highest mortality rate at 295.7 per 100,000; followed by NM Metro (276.1 per 100,000), Chris Hani (218.2 per 100,000) and Sarah Baartman (176.6 per 100,000).

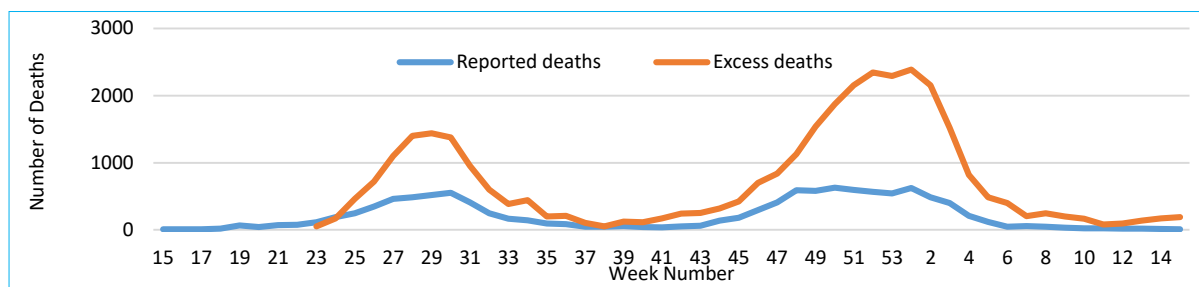
## 7.2. Number of reported SARS-Cov-2 related deaths

The figure below depicts the daily and cumulative number of SARS-Cov-2 related deaths which occurred in the province from the beginning of the pandemic.



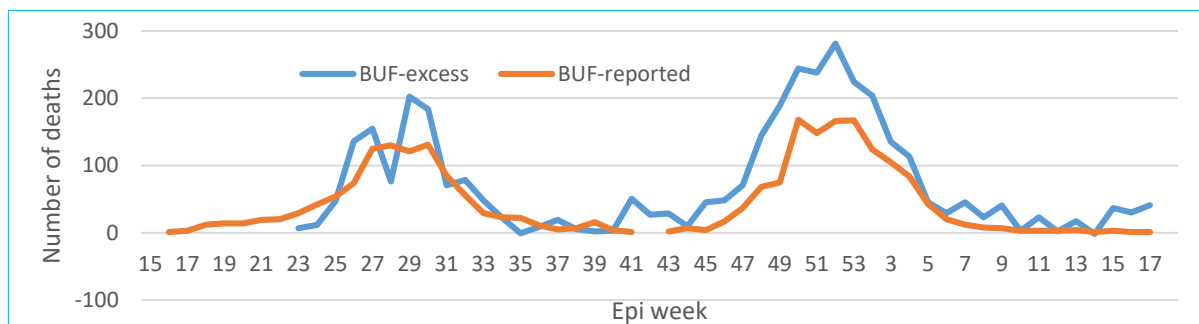
**Fig. 16. Daily and cum. SARS-Cov-2 related deaths by date of demise, as of 19 May 2021**

The second wave had more deaths and took a longer duration compared to the first wave. The number of deaths continues to decline from the first week of January until to date.

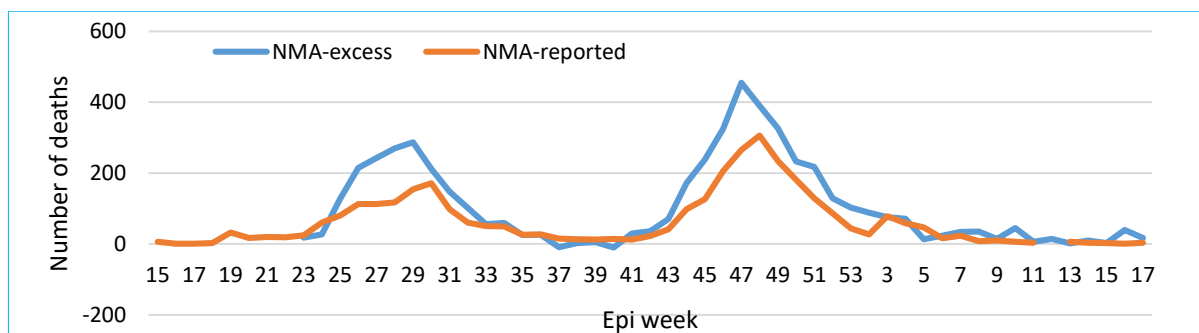


**Fig. 17. Excess & SARS-Cov-2 related deaths by week, as of 22 April 2021 (ECDOH, MRC)**

The number of excess deaths extracted from the MRC website was greater than the number of deaths as reported by the Department. The differences in the number of deaths during the period of low transmission appear to be lower compared to the period of high transmission. In the first and second waves, the number of excess deaths was significantly higher than the number reported in the department. The gap between the number of reported deaths related to SARS-Cov-2 appears to be narrower in BC Metro and NM Metro compared to the provincial figures. Like the provincial figures, there were notable gaps during the peak periods in the first and second waves.



**Fig. 18. Reported SARS-Cov-2 versus excess deaths in BC Metro, as of the 29 April 2021**

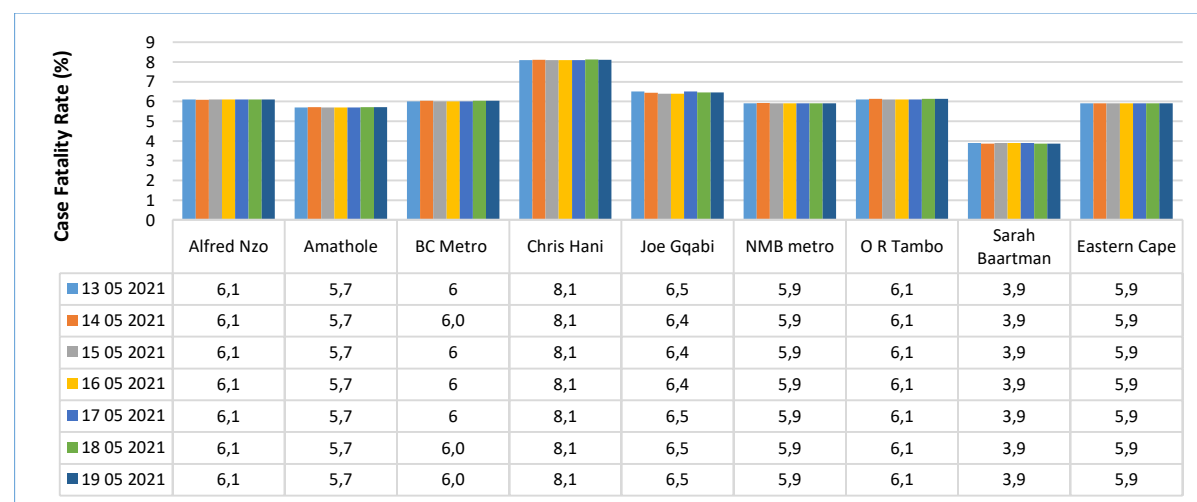


**Fig. 19. Reported SARS-Cov-2 versus excess deaths in NM Metro, as of the 29 April 2021**

There is a need to increase the reporting of deaths and post-mortem testing in all districts.

### 7.3. Case Fatality Rate by district

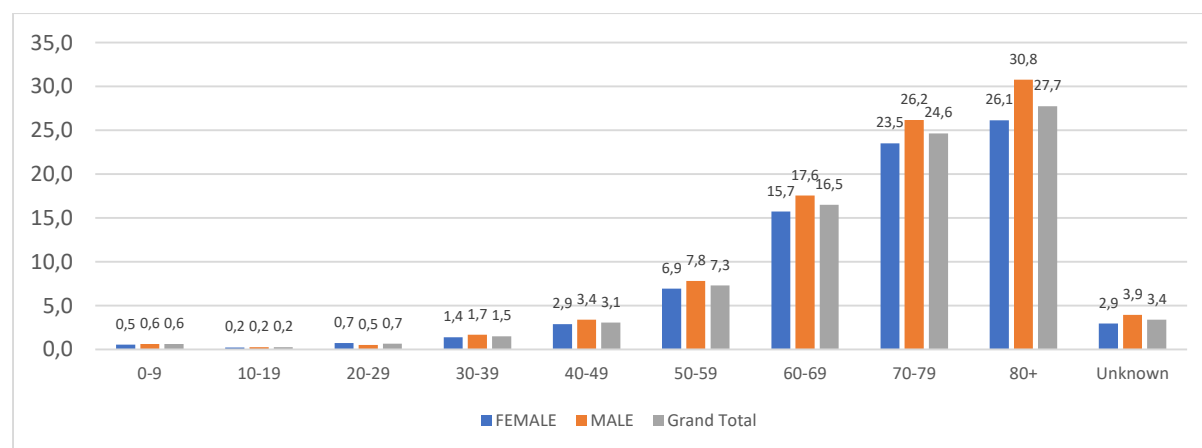
Chris Hani reported 8.1% of the SARS-Cov-2 deaths, followed by Joe Gqabi (6.5%), Alfred Nzo (6.1%), OR Tambo (6.1%), BC Metro (6.0%), NM Metro (5.9%), Amathole (5.7%) and the lowest being Sarah Baartman (3.9%).



**Fig. 20. SARS-Cov-2 Case Fatality Rate (%) by district, as of 19 May 2021 (N=11,628)**

The case fatality rate has not changed for more than 7 days. However, there were no significant changes which were observed in nearly all the districts.

### 7.4. Case Fatality Rate by age group

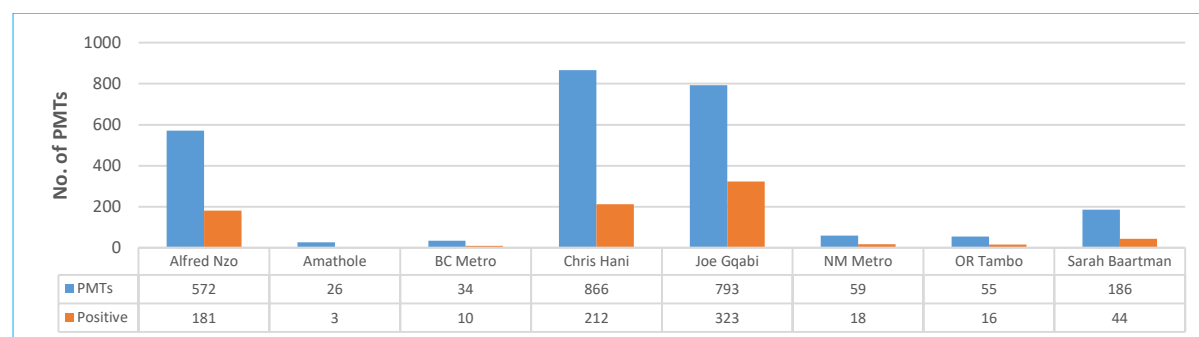


**Fig. 21. SARS-Cov-2 related Case Fatality Rate (%) by age group, as of 19 May 2021**

The case fatality rate increases with increasing age. The younger population reported a low case fatality rate compared to the older population that had an increased case fatality rate. The male population had a higher case fatality rate compared to the female population.

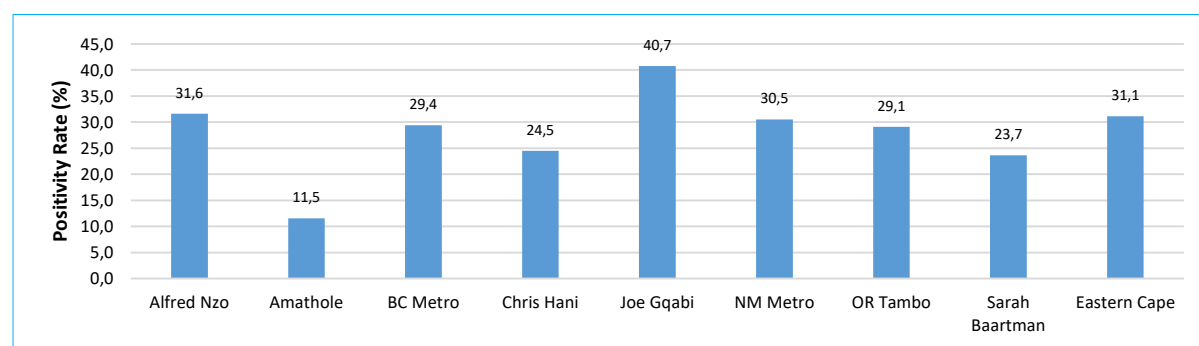
## 7.5. Post-mortem tests (PMTs) and results

In the past 24 hours, 16 PMTs were reported from Chris Hani (9), Alfred Nzo (5) and Sarah Baartman (2). Cumulatively, 2,591 PMTs were done and 807 tested positive for SARS-Cov-2.



**Fig. 22. Number of Post-Mortem Tests & Positive Cases by district, as of 18 May 2021**

Alfred Nzo, Chris Hani and Joe Gqabi reported 2,231 (86,1%) PMTs and 716 tested positive, i.e. 88,7% of all the positive cases.



**Fig. 23. Post-mortem SARS-Cov-2 positivity rate by district, as of 18 May 2021**

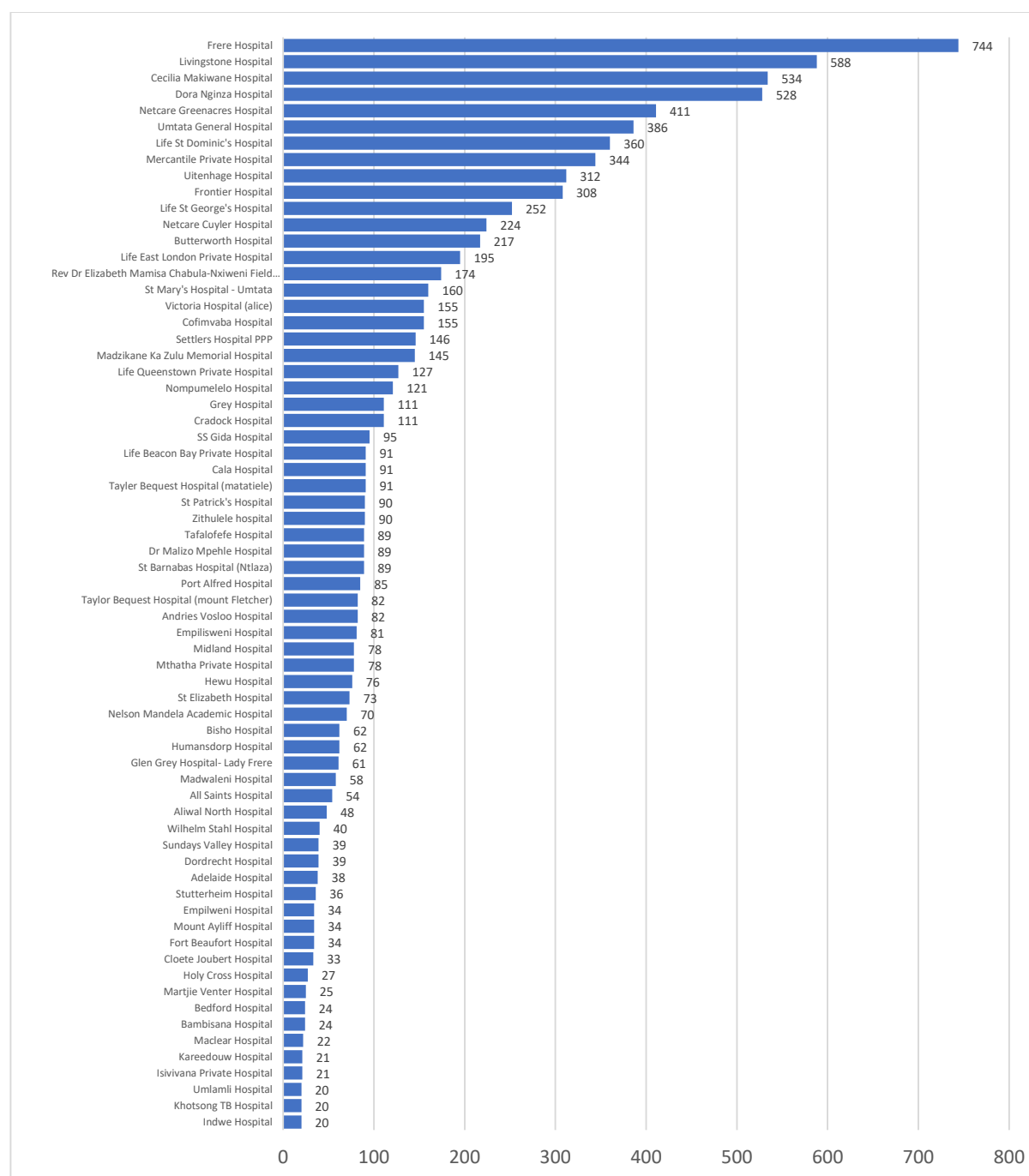
Joe Gqabi has the highest positivity rate, followed by OR Tambo, Alfred Nzo, and NM Metro.

	02-08 May		09-17 May		02-17 May	
	PMTs	Positive	PMTs	Positive	PMTs	Positive
Alfred Nzo	20	2	27	3	47	5
Amathole	6		11	1	17	
BC Metro						
Chris Hani	35	4	51	6	86	10
Joe Gqabi	28	4	25	1	53	5
NM Metro						
OR Tambo	1		6		7	
Sarah Baartman	5		6		11	
Eastern Cape	95	10	126	11	221	20

In the past 15 days, 20 of the 221 PMTs tested positive for SARS-Cov-2. Three districts accounted for 186 PMTs (84.2%), i.e. Alfred Nzo, Chris Hani, and Joe Gqabi. The 20 confirmed cases were from Alfred Nzo, Chris Hani, and Joe Gqabi. There is a need to promote testing of all deaths which occurred outside the health facilities especially in Amathole, BC Metro and NM Metro.



## 7.6. Deaths by health facilities



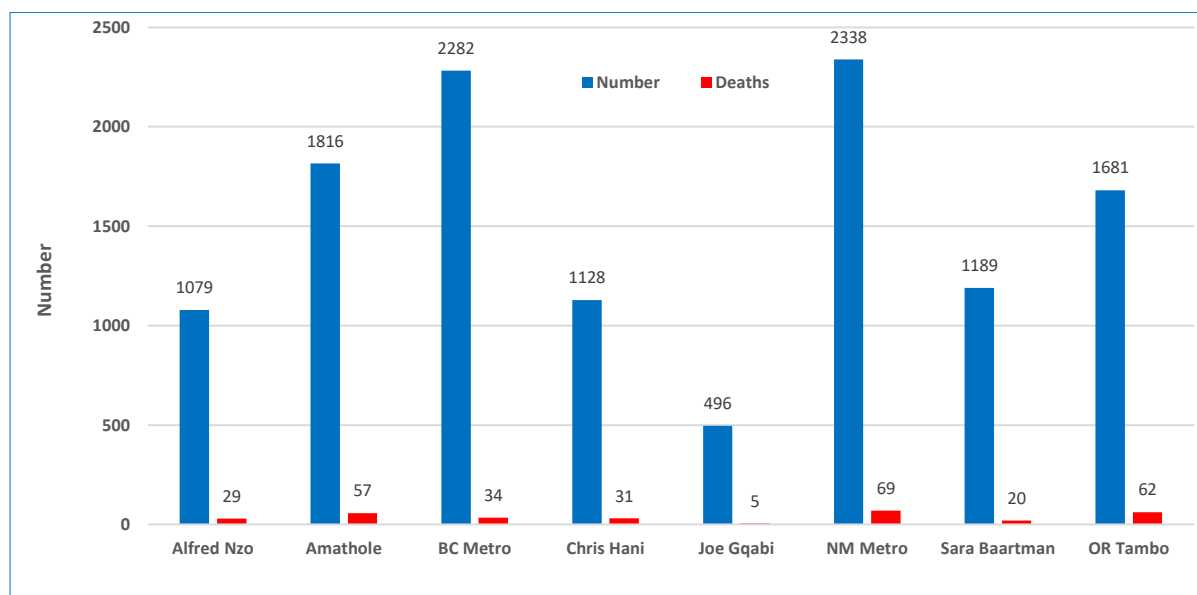
**Fig. 24. Number of SARS-Cov-2 related deaths by the facility, as of 17 May 2021**

Fifty-five percent (55%) of the deaths occurred in 13 hospitals, i.e. 8 public and 5 private sectors. The public hospitals include Frere, Livingstone, CMH, Dora Nginza, Frontier, Mthatha, Uitenhage, and Butterworth hospitals. And the private hospitals include Netcare Greenacres, Life St. Dominics, Mercantile, Life St Georges, and Netcare Cyler hospitals. Only hospitals with a minimum of 20 deaths are included in the abovementioned figure.

## 6. HEALTHCARE WORKERS

### 6.1. Cases and deaths among healthcare workers (HCWs)

The number of HCWs who tested SARS-Cov-2 positive was 12,009 and 307 persons demised.



**Fig. 25. SARS-Cov-2 positive Healthcare Workers, as of 19 May 2021 (N = 12,009)**

The number of healthcare workers who tested positive for SARS-Cov-2 in Nelson Mandela Metro was 2,338 (69 deaths), Buffalo City Metro 2,282 (34 deaths), Amathole 1,816 (57 deaths), OR Tambo 1,681 (62 deaths), Sarah Baartman 1189 (20 deaths), Chris Hani 1,128 (31 deaths) and Alfred Nzo 1,079 cases (29 deaths).

### 6.2. SARS-Cov-2 Cases by job category

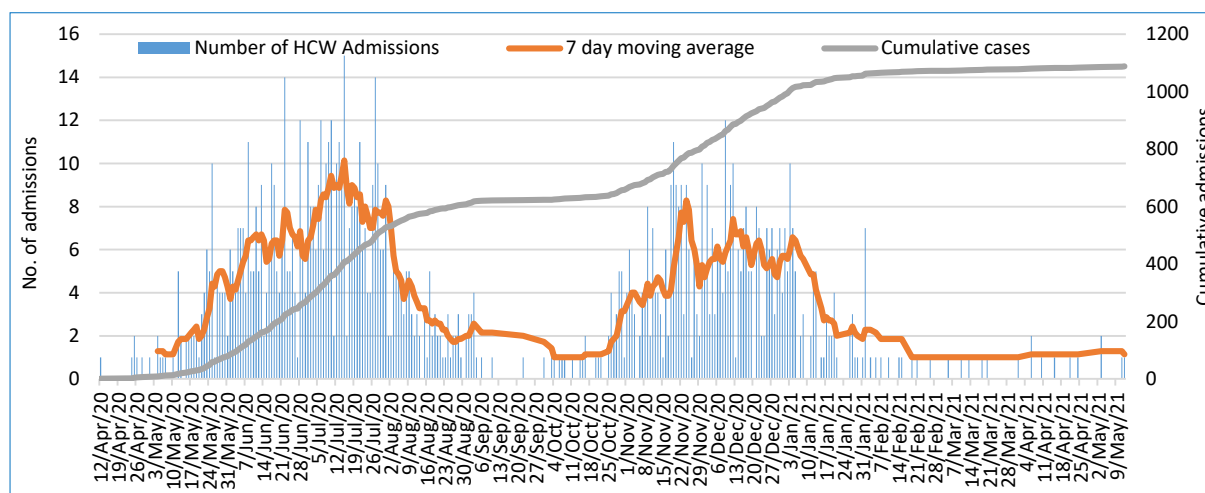
The table below provides the number of selected healthcare professionals employed by the State and SARS-Cov-2 cases by job categories, and the positivity rate of that job category.

	Population	Cases	Positivity Rate (%)
Admin	12434	810	6,5
Allied Professionals	3041	234	7,7
Doctors & Clinical Assoc	2369	449	19,0
Nurses	20650	5007	24,2
Emergency Medical Services	2498	298	11,9

The positivity rate among the nurses was 24.2%, followed by doctors and clinical associates (19%), allied professionals (7.7%), EMS (11.9%), and admin personnel (6.5%). The positivity rates among healthcare workers negatively affect patient safety, staff morale and confidence, and the capacity of the State to provide quality health services to the population.

### 6.3. Admissions of healthcare workers

As of the 09<sup>th</sup> May to date, 2 additional admissions were reported and a cumulative number of admissions was 1,088 health workers.

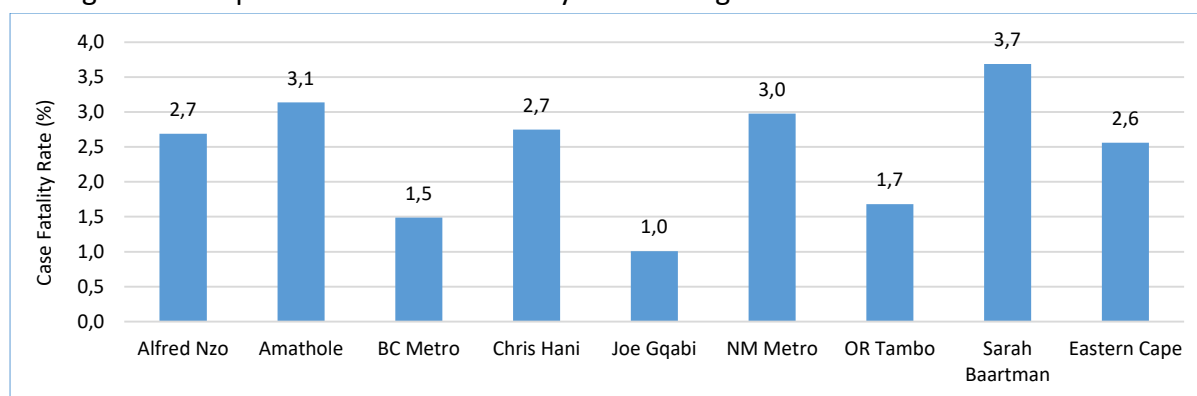


**Fig. 26. No. of SARS-Cov-2 related admissions of healthcare workers, as of 14 May 2021**

This graph appears to be mimicking the epi-curve and admissions of the general population including during the first and the second waves. In the past few weeks, there was a plateau in the number of HCW admissions. Fewer cases of health workers were admitted from the last part of January.

### 6.4. Case Fatality Rate (%) among HCWs

The figure below provides the cases fatality rate among all healthcare workers.



**Fig. 27. SARS-Cov-2 Case Fatality Rate (%) among HCWs, as of 19 May 2021 (N=307)**

The case fatality rate among healthcare workers was 2.6%. The case fatality rate was 1.0% and above in all the districts. Sarah Baartman reported the highest case fatality rate, followed by Amathole, Nelson Mandela Metro, Chris Hani and Alfred Nzo. The case fatality rate of less than 2% in three districts, i.e. Joe Gqabi, BC Metro and OR Tambo.

## 7. Hospitalization and outcomes

### 7.1. Admissions and outcomes

Cumulatively, hospitalizations were reported to be 31,783.

Table 7. Hospitalizations by district and sector, as of 19 May 2021				
Districts	Public	Private	Total	Percentage (%)
Alfred Nzo	1691	106	1797	5,7
Amathole	2365	0	2365	7,4
Buffalo City Metro	4248	3158	7406	23,3
Chris Hani	2584	743	3327	10,5
Joe Gqabi	716	0	716	2,3
Nelson Mandela Bay Metro	6670	4495	11165	35,1
O R Tambo	2366	892	3258	10,3
Sarah Baartman	1608	141	1749	5,5
<b>Eastern Cape</b>	<b>22248</b>	<b>9535</b>	<b>31783</b>	<b>100</b>

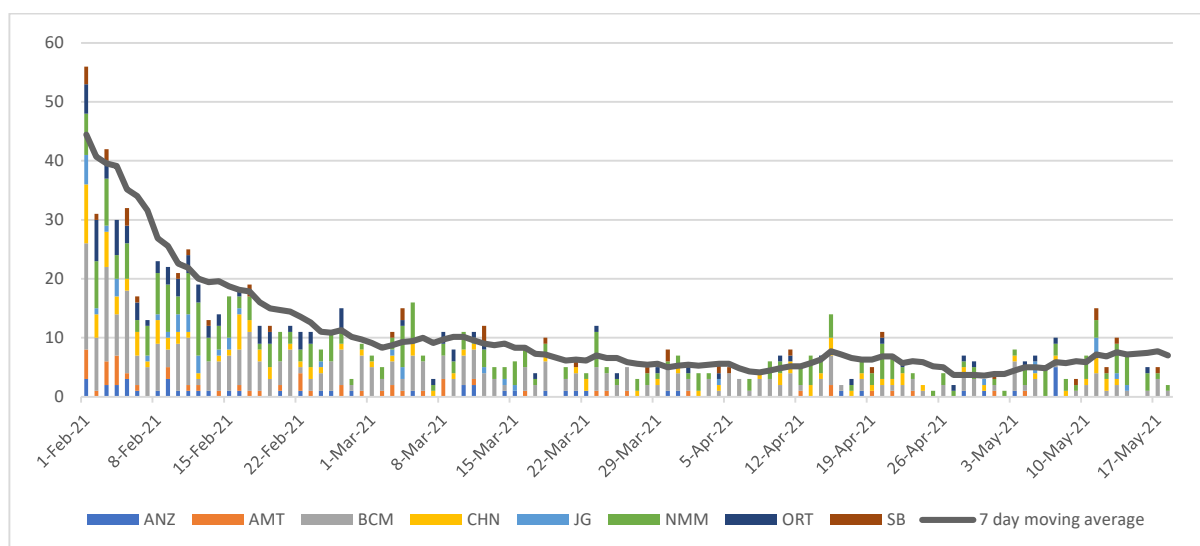
Public sector accounted for 22,248(70%) hospitalizations, and private sector for 9,535 (30%).

Table 8. Hospitalizations and Outcomes, as of 19 May 2021			
Eastern Cape	Public	Private	Total
Cumulative Admissions	22248	9535	<b>31783</b>
Died	7187	2291	9478
Discharged Alive	13453	7153	20606
Transferred Out	1563	35	1598
Currently Admitted	35	52	87
In ICU	0	10	10
In High Care	1	2	3
In General	34	40	74
On Oxygen	19	4	23
Ventilated	1	0	1

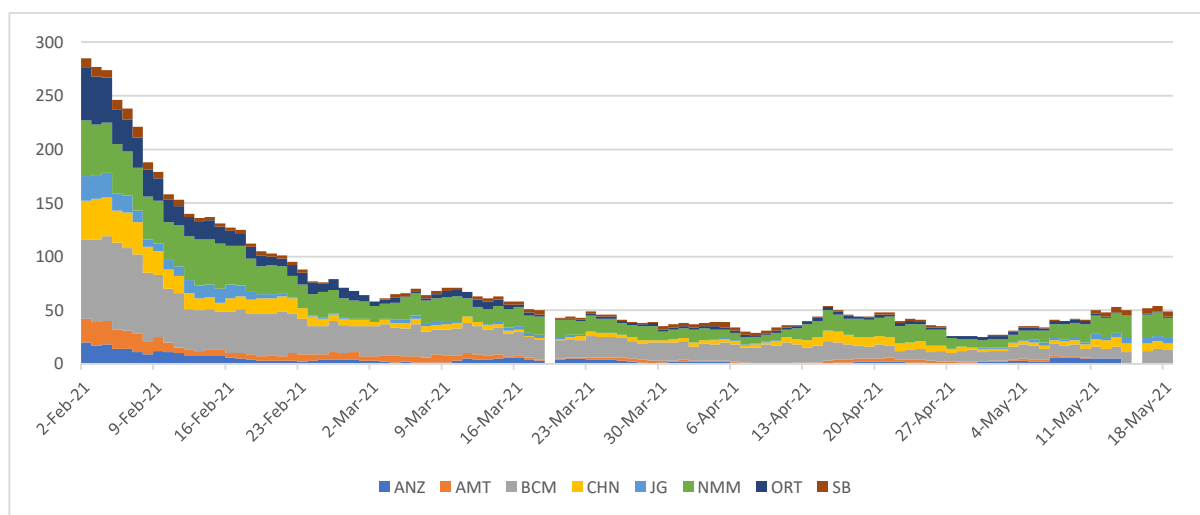
Sixty-five percent (64.8%), i.e. 20,606 of hospitalized patients were discharged alive and 13,453 (65.3%) occurred in public sector. Thirty percent (29,8%) of hospitalized cases, i.e. 9,478 demised and 7,187 (75.8%) occurred in public sector facilities.

The number of currently admitted hospitalizations was 87, i.e. 52 in private and 35 in public sector facilities. Both sectors reported 74 hospitalizations in the General Ward, and most of the cases on oxygen were in the public sector.

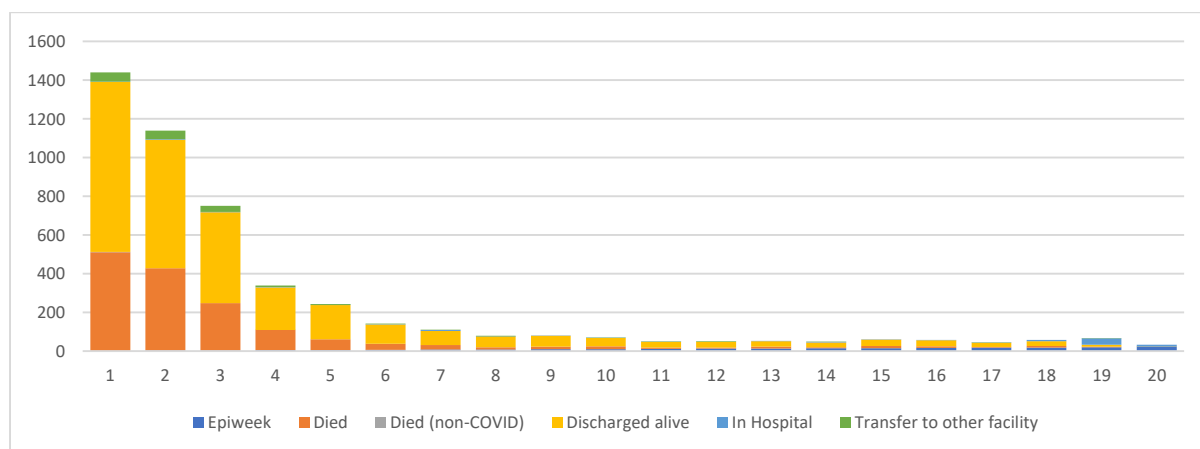
Of the 87 currently admitted, 74 (85.1%) were admitted in the General Ward, 10 (11.5%) in ICU (in private sector), 3 (3.4%) in High Care, 23 (26.4%) on oxygen (19 in public & 4 in public) and 1 (1.1%) was on ventilation.



**Fig. 28. Average (7 days moving) daily admissions by districts, as of 19 May 2021 (DATCOV)**



**Fig. 29. No. of hospitalizations by date of admission for each district, as of 19 May 2021**

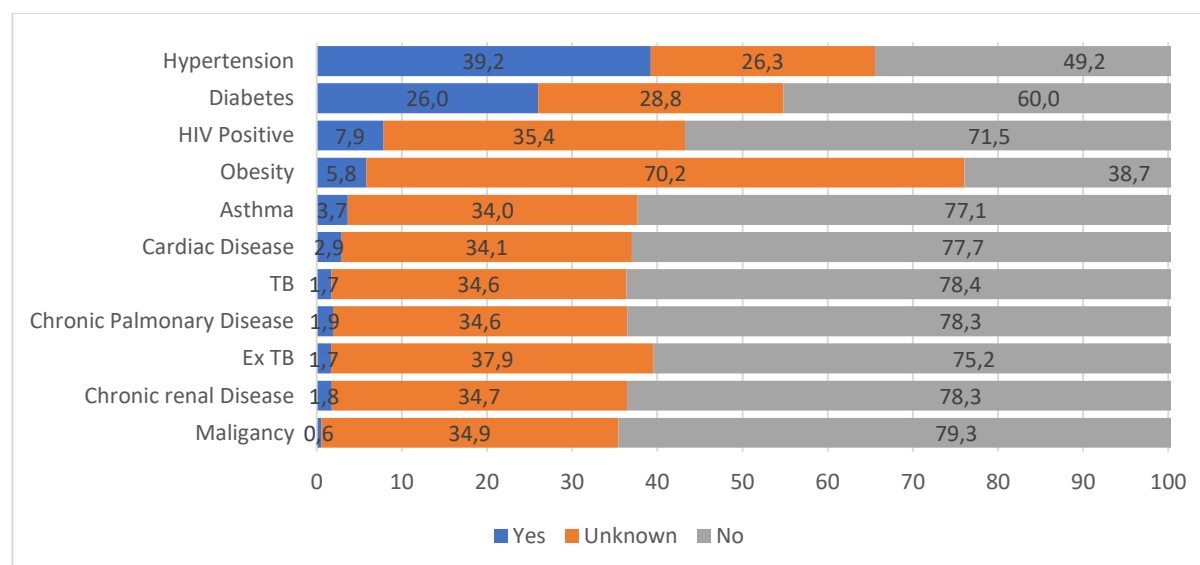


**Fig. 30. Hospitalizations & outcomes by admission week, as of 19 May 2021 (DATCOV)**

The number of currently hospitalized patients remained low since week 8 of this year.

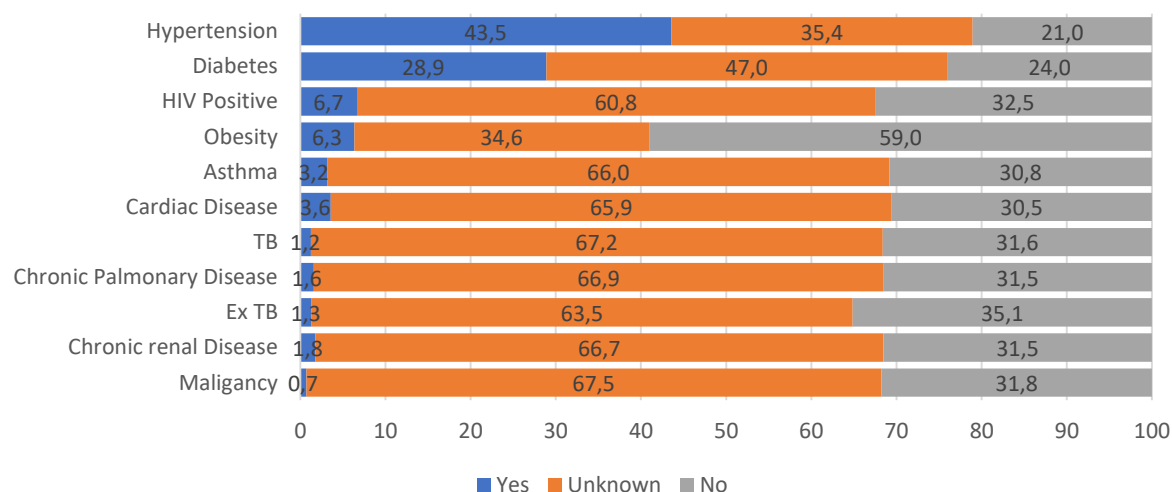
## 7.2. Co-morbidities among admitted cases and deaths

The most common co-morbidities among the hospitalized SARS-Cov-2 patients were hypertension (39.2%) and diabetes (26%) among hospitalized SARS-Cov-2 cases. Two other commonly reported co-morbidities HIV (7,9%), obesity (5,8%) and asthma (3,7%).



**Fig. 31. Co-morbidities among SARS-Cov-2 hospitalizations, as of 19 May 2021 (DATCOV)**

A significant percentage of hospitalized patients did not have co-morbidities. This may have resulted in the under-estimation of the burden of co-morbidities among hospitalized cases.



**Fig. 32. Co-morbidities among SARS-Cov-2 cases who demised, as of 19 May 2021 (DATCOV)**

The most common comorbidities among those cases that demised in the hospital include hypertension (43,5%) and diabetes (28,9%). Other 4 co-morbidities were reported, i.e. HIV (6,7%), obesity (6,3%), cardiac diseases (3,6%), and asthma (3,2%).



3 577 773

No Screened



967 972

Total Lab Tests



196 978

Positive Cases



184 707

Recoveries



11 628

Deaths

DISTRICT	TOTAL SCREENED	TOTAL TESTED	TOTAL CASES	RECOVERIES	DEATHS	ACTIVE CASES	AREAS
ALFRED NZO	694 706	33 674	8 043	7 550	491	2	Badibanise,Bhakubha,Bizana,Brooksnek,Cedarville,Chithwa,Dutyini,Emanxiweni,Ezinteteni,Kokstad,Lucingweni,Ma-luti, Mandilini , Matatiele,Mount Ayliff, Mount Frere , Ndantana, Ngingo , Ntabakhulu, Sugar Bush, Tabankulu
AMATHOLE	658 126	83 066	19 412	18 295	1110	7	Adelaide, Alice, Bolotwa, Butterworth, Cathcart, Centane, Cuba, Debe Nek, Dikana, Elliotdale, Ethafeni, Frankfort, Fort Beaufort, Ibika, Idutywa, Keiskammahoek, Willowale, Lower Mhangcolo,Debe Nek, Mgababa, Nyaniso, Peddie
BUFFALO CITY METRO	210 367	163 538	39 150	36 733	2362	55	Abbottsford, Amalinda , Beacon Bay, Bisho, Braelynn, Buffalo Flats, Dimbaza, Duncan Village, East London, Gins-berg, Gonubie, Greenfields, Haven Hills, King William's Town, Mamata, Mdantsane, Masingata, Mantlaneni, Nahoon, Ndevana, Needs Camp, Parkside, Selbourne, Sunnyridge, Sunset Bay,Tshatshu, Vincent, West Bank, Zwelitsha
CHRIS HANI	515 346	72 402	19 732	18 075	1601	56	Bankies, Dordrecht, Dukathole, Ekunene, Ezibeleni, Kwanobuhle, Mcwangele, Madeira Park, New Rest, Ngcobob, Ngonyama, Popcorn Valley, Qebe, Qoqodala, Queenstown, Sigadleni, Vaalbank, Sada, Middleburg, Thornhill, Ndzamele, Mlungisi,Westbourne,Nttonze, Maya Village,Ekuphumuleni, TopTown, Vleipoort, Zola
JOE GOABI	87 855	29 422	7 647	7 131	494	22	Aliwal North, Barkley East, Bhodi, Land Camp, Ugie, Inglewood, Maclear, Solomzi, Sunduza,Robbarn,Venterstsd
NELSON MANDELA METRO	856 883	235 397	56 553	52 990	3343	220	Algoa Park, Bethelsdorp, Bloemendal, Bluewater Bay, Boosens Park, Cotswold, Cuyler, Daleview, Despatch, Fernglen Port, Gelvandale, Govan Mbeki, Heath Park, Helenvale, Jacksonville, Joe Slovo, Kabega Park, Kamma Park, Kamvelihle, Khayaletu, Kleinskool, Kwa Dwesi, Kwa-Magxaki, Kwanobuhle, Kwanoxolo, KwaZakhele, Lovemore Heights, Missionvale, Motherwell, Mount Croix, New Brighton, Newton Park ,North End, Port Elizabeth, Rowallan Park, Salt Lake, Sardinia Bay, Schauderville, Sherwood, Silvertown, Soweto-On-Sea, Steve Tshwete, Summerstrand, Tamboville, Uitenhage, Veeplaas, Walmer, West End, Westering, Zwide, Lorraine, Hillside, Daleview
OR TAMBO	265 613	99 052	22 499	21 114	1379	6	Gomora, Lutatweni, Machibi, Majola, Mandilini ,New Payne Ngqeleni, Ntsimbini, Old Payne, Libode, Lusikisiki, Mqanduli, Tombo, Marhewini, Mpikwana,Bhongweni,Cibeni, Flagstaff,Magcakeni,Ngangelizwe, Ngqanda,Tyebelana, Pollar Park, Tabase Mission, Slovo Park, Southernwood, Waterfall Park, Zandukwana,Zimbane, Ziphonzana
SARAH BAARTMAN	288 877	105 684	21 958	21 040	848	70	Aberdeen, Alexandria, Graaf-Reinet, Grahamstown, Jeffrey's Bay, Jourbertina, Humansdorp, Parson, St. Francis Bay, Kirkwood, Lotusville, Bergendal, Bratenfel, Joza, Santaville, Somerset East, Thornhill, Willomore
IMPORTED*	-	0	676	652	0	24	Bloemfontein, Ceres, Cape Town, Dunoon, Fishoek, George, Green Point, Gugulethu, Hout Bay, Langa, Khayelitsha, Knysna, Phillipi, Stellenbosch, Strand
PENDING	-	145 737	1128	1127	0	1	
GRAND TOTALS	3 577 773	967 972	196 798	184 707	11 628	463	

## ACKNOWLEDGEMENTS

- The epidemiological and surveillance functions continue because of the strong partnership between the following stakeholders;
- WHO supported epidemiologists, biostatisticians, and technical support
- The National Institute for Communicable Diseases (NICD) provided the province with epidemiologists and technical support
- The data analyst from TB/HIV Care has supported data management, mapping of the cases and other functions in the department
- Right to Care assists in mapping the cases in different areas in the province
- Centre for Disease Control (Atlanta-Pretoria) provided the Department with an epidemiologist and a statistician to support the province
- The Department of Health, both the National and Provincial Department of Health re-purposed the employees to focus on the control and prevention of the pandemic
- Laboratories; National Health Laboratory Services, Pathcare and Ampath for prompt and regular reporting of SARS-Cov-2 newly diagnosed cases.

**RESURGENCE INDICATORS BY DISTRICT**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	18	38	111,1		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	2,96	4,86	64,2		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	96	88	-8,3		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,13	0,22	69,2		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		2,1			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		188			There should be 5 tests for each positive case per 100000 population

**ALFRED NZO**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	2	1	-50,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,97	1,21	24,7		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	7	4	-42,9		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,12	infinity		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		0,4			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		86			There should be 5 tests for each positive case per 100000 population

**AMATHOLE**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	1	2	100,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,88	0,75	-14,8		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	1	0	-100,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,13	0,00	-100,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		1,2			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		43			There should be 5 tests for each positive case per 100000 population



**BUFFALO CITY METRO**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	5	66,7		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	3,76	5,13	36,4		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	33	24	-27,3		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,25	0,13	-48,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,8			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		113			There should be 5 tests for each positive case per 100000 population

**CHRIS HANI**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	6	100		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	3,68	3,54	-4		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	3	4	33		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,14	0,68	386		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,8			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		108			There should be 5 tests for each positive case per 100000 population

**JOE GQABI**

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	3	0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	4,08	6,41	57		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	2	5	150		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,29	0,58	100		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		4,9			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		94			There should be 5 tests for each positive case per 100000 population

### NELSON MANDELA BAY

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	7	18	157,1		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	6,44	11,15	73,1		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	44	46	4,5		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,25	0,41	64,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		4,7			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		222			There should be 5 tests for each positive case per 100000 population

### OR TAMBO

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	3	0,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,46	0,46	0,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	6	2	-66,7		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,07	infinity		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		0,7			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		78			There should be 5 tests for each positive case per 100000 population

### SARAH BAARTMAN

Indicator	Description	week 18	week 19	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	7	133,3		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	2,50	10,20	308,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	0	3	infinity		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,21	0,00	-100,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		7,0			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		127			There should be 5 tests for each positive case per 100000 population