

## Daily Epidemiological Report for SARS-Cov-2

Report No. 425

Date Issued: 02 June 2021

### 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 02 June 2021.

### 2. HIGHLIGHTS

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

- In the past 24 hours, 182 new cases and 0 deaths were reported. Fifty-nine percent (59.3%), i.e. 108 of the new cases were from NM Metro followed by Sarah Baartman (22 cases, 12.1%); BC Metro (20 cases, 11%); Joe Gqabi (17 cases, 9.3%); Chris Hani (7 cases, 3.8%); Alfred Nzo (3 cases, 1.6%); Amathole (3 cases, 1.6%) and OR Tambo (2 cases, 1.1%).
- Sixty-six percent (616 cases, 66%) of the active cases were from NM Metro, followed by Sarah Baartman (116 cases, 12.4%), BC Metro (81 cases, 8.7%), Chris Hani (55 cases, 5.9%), Joe Gqabi (51 cases, 5.5%), Amathole (8 cases, 0.9%), Alfred Nzo (4 cases, 0.4%) and OR Tambo (3 cases, 0.3%).
- In the past 7 days, the incidence of SARS-Cov-2 increased by 23% from 11.3 cases per 100,000 population to 13.9 cases per 100,000 population. **BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman have more than 5 cases per 100,000 populations.**

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

- In the past 24 hours, 0 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

- The cumulative number of hospitalizations was 31,888.
- The number of hospitalizations in public was 22,251 (69,8%) and 9,637 (30,2%) in private.
- Sixty-five percent (64.8%), i.e. 20,667 of hospitalized patients were discharged alive and 13, 458 (65.1%) occurred in public sector. Thirty percent (29.8%) of hospitalized cases, i.e. 9,488 demised and 7,194 (75.8%) occurred in public sector facilities.
- The number of currently admitted hospitalizations was 134, i.e. 95 in private and 39 in public sector facilities. About 110 cases (82.1%) were admitted in the General Ward (73 in private & 37 in public sector); 22 (16.4%) in ICU (21in private & 1 in public); 2 (1.5%) in High Care; 19 (14.2%) on oxygen (14 in public & 5 in private) and 10 (7.5%) was on ventilation (4 in public and 6 in private sector).

### 2.4 Healthcare workers

- The number of HCWs who tested SARS-Cov-2 positive was 12,068 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

In the past 7 days, the incidence of SARS-Cov-2 increased by 23% from 11.3 cases per 100,000 population to 13.9 cases per 100,000 population. **BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman have more than 5 cases per 100,000 populations.** NM Metro and Sarah Baartman contributed more than half of the cases and have entered a response phase. Three districts have more than 5 but less than 10 cases per 100,000, i.e., BC Metro, Chris Hani, and Joe Gqabi. Local municipalities to watch include Inxuba Yethemba LM (Chris Hani), Walter Sisulu LM (Joe Gqabi), Sub-District C (NM Metro), and Dr Beyers Naude LM, Kouga LM, Ndlambe LM & Sundays River Valley LM (Sarah Baartman). 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, 182 new cases and 0 deaths were reported. Cumulatively, **198,082 cases** and **11,664 deaths** were reported.

	No. of cases	New Cases	Total	%	Deaths	New Deaths		Total	CFR (%)
						*Newly Reported	**Newly occurred		
Male	78478	74	78552	39,7	4929	0	0	4929	6,3
Female	119403	108	119511	60,3	6735	0	0	6735	5,6
Unknown	19	0	19	0,0	0	0		0	0,0
<b>Total</b>	<b>197900</b>	<b>182</b>	<b>198082</b>	<b>100,0</b>	<b>11664</b>	<b>0</b>	<b>0</b>	<b>11664</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 5.6% 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	8056	3	8059	7555	500	0	0	500	6,2	93,7	4
Amathole	19423	3	19426	18307	1111	0	0	1111	5,7	94,2	8
BC Metro	39217	20	39237	36791	2365	0	0	2365	6,0	93,8	81
Chris Hani	19829	7	19836	18170	1611	0	0	1611	8,1	91,6	55
Joe Gqabi	7716	17	7733	7184	498	0	0	498	6,4	92,9	51
NM Metro	57240	108	57348	53385	3347	0	0	3347	5,8	93,1	616
OR Tambo	22503	2	22505	21120	1382	0	0	1382	6,1	93,8	3
S Baartman	22113	22	22135	21169	850	0	0	850	3,8	95,6	116
Imported	677	0	677	677	0	0	0	0	0,0	100,0	0
Unspecified	1126	0	1126	1126	0	0	0	0	0,0	100,0	0
<b>E. Cape</b>	<b>197900</b>	<b>182</b>	<b>198082</b>	<b>185484</b>	<b>11664</b>	<b>0</b>	<b>0</b>	<b>11664</b>	<b>5,9</b>	<b>93,6</b>	<b>934</b>

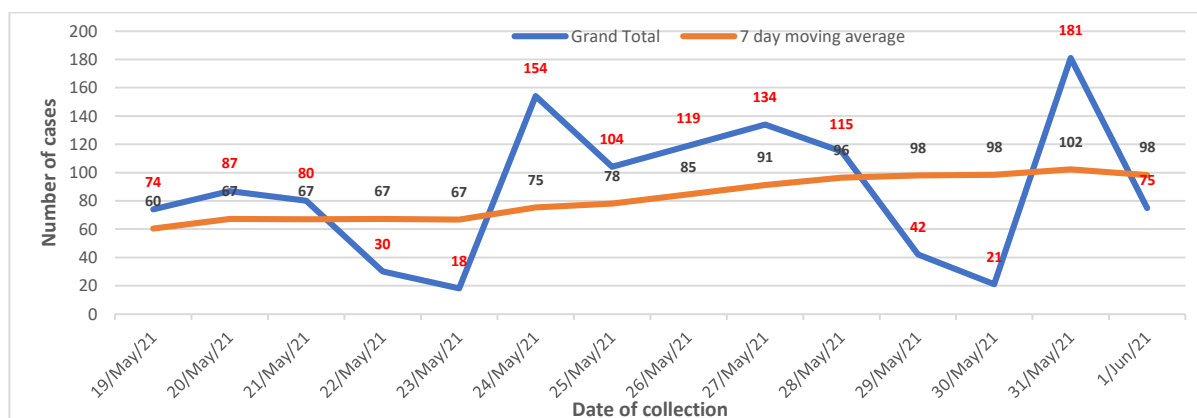
\* Deaths that occurred more than 48 hours \*\* Deaths that occurred within the past 48 hours of reporting

Fifty-nine percent (59.3%), i.e. 108 of the new cases were from NM Metro followed by Sarah Baartman (22 cases, 12.1%); BC Metro (20 cases, 11%); Joe Gqabi (17 cases, 9.3%); Chris Hani (7 cases, 3.8%); Alfred Nzo (3 cases, 1.6%); Amathole (3 cases, 1.6%) and OR Tambo (2 cases, 1.1%).

Sixty-six percent (616 cases, 66%) of the active cases were from NM Metro, followed by Sarah Baartman (116 cases, 12.4%), BC Metro (81 cases, 8.7%), Chris Hani (55 cases, 5.9%), Joe Gqabi (51 cases, 5.5%), Amathole (8 cases, 0.9%), Alfred Nzo (4 cases, 0.4%) and OR Tambo (3 cases, 0.3%).

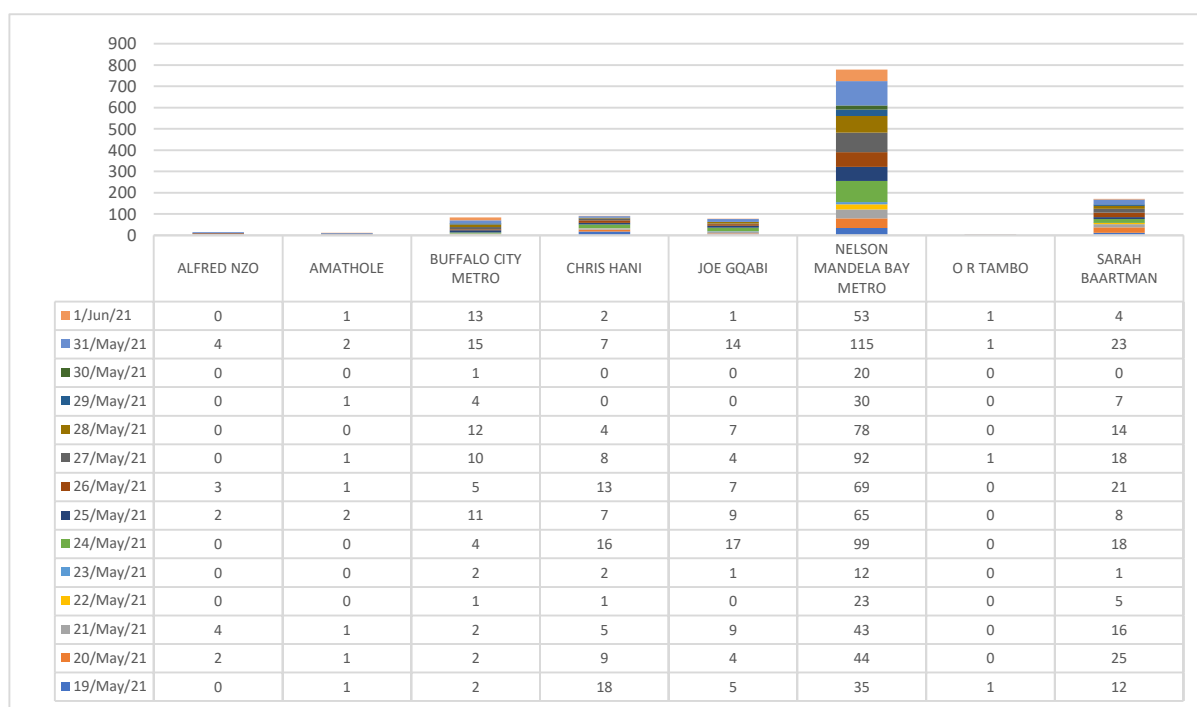
### 3.2. Newly diagnosed cases

The number of new cases has increased by 15.3% from 85 on the 25<sup>th</sup> May to 98 on the 01<sup>st</sup> June.



**Fig. 1. Daily SARS-Cov-2 cases & 7-day moving average by date of collection, as of 02 June 2021**

NM Metro reported the highest number of newly diagnosed cases, followed by Sarah Baartman, Chris Hani and Joe Gqabi.



**Fig. 2. Daily SARS-Cov-2 cases by district and date of collection, as of 02 June 2021**

There is a need to improve case detection (including increased testing) and contact tracing and monitoring. Alfred Nzo, Amathole 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; 8,938 tests were reported. The total number of tests was 988,405 and 60.6% were done in public and 39.4% in the private sector.

**Table 3. Number of SARS-Cov-2 tests for Private and Public by Laboratories, as of 02 June 2021**

	Private	Public	Total	Percentage (%)	30 May-02 June	Tests 23-29 May
Alfred Nzo	4556	29424	33 980	3,4	55	139
Amathole	9821	73753	83 574	8,5	52	210
BC Metro	62909	101701	164 610	16,7	195	467
Chris Hani	13141	61178	74 319	7,5	108	887
Joe Gqabi	1281	28982	30 263	3,1	61	430
NMB Metro	93335	145197	238 532	24,1	623	1234
OR Tambo	30253	69210	99 463	10,1	48	151
Sarah Baartman	18788	88273	107 061	10,8	225	594
Unclassified	156603	0	156 603	15,8	2683	4826
<b>Eastern Cape</b>	<b>390687</b>	<b>597718</b>	<b>988 405</b>	<b>100</b>	<b>4050</b>	<b>8938</b>

NM Metro accounts for 24.1% of the tests, followed by BC Metro (16.7%), Sarah Baartman (10.8%) and OR Tambo (10.1%).

### 4.2. Antigen Testing

Antigen Test Method was used to test 123,384 specimens with a 7.3% positivity rate. In the past 6 days, 6,874 tests were done.

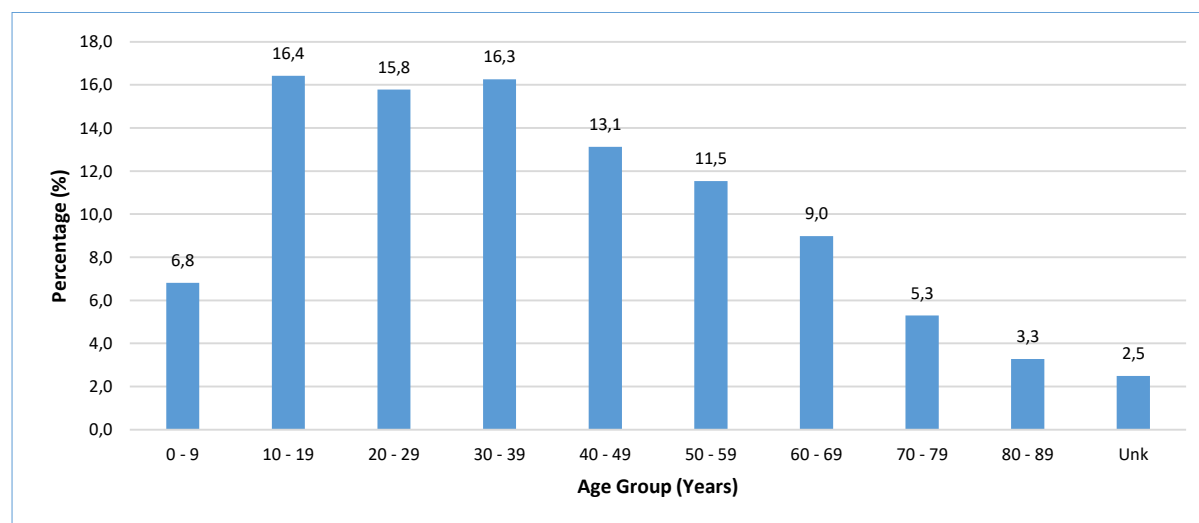
**Table 4. No. of SARS-Cov-2 Tests and results using Antigen Test Method, as of 28 May 2021**

	Negative	Positive	Total	Positivity Rate (%)	Tests 23-28 May
A Nzo	13847	932	14779	6.3	621
Amathole	4361	613	4974	12.3	47
BC Metro	12138	1625	13763	11.8	187
Chris Hani	9845	1179	11024	10.7	305
Joe Gqabi	3701	477	4178	11.4	56
NM Metro	40226	2472	42698	5.8	4554
OR Tambo	23256	1360	24616	5.5	952
Sarah Baartman	7028	324	7352	4.4	152
<b>Total</b>	<b>114402</b>	<b>8982</b>	<b>123384</b>	<b>7.3</b>	<b>6874</b>

NM Metro accounted for 34.6% of the tests, followed by OR Tambo (20%) from OR Tambo, Alfred Nzo (12%) and BC Metro (11.2%). Four (4) districts reported more than 10% positivity rate among those tested using antigen testing, i.e. Amathole, BC Metro, Chris Hani and Joe Gqabi. The lowest positivity rate was observed in Sarah Baartman.

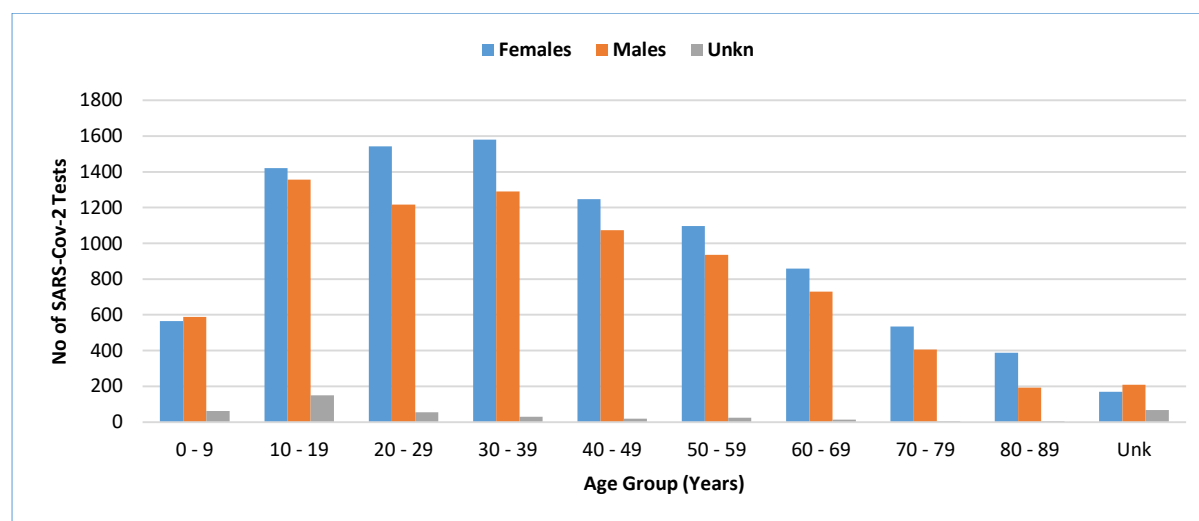
### 4.3. Tests by age group and sex

In the last 31 days, 17,835 specimens were tested for SARS-Cov-2 in public sector laboratories. Fifty-seven percent (56.7%) of the tests were among the 20 to 59 year's age group. Forty percent (40.8%) 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 02 June 2021**

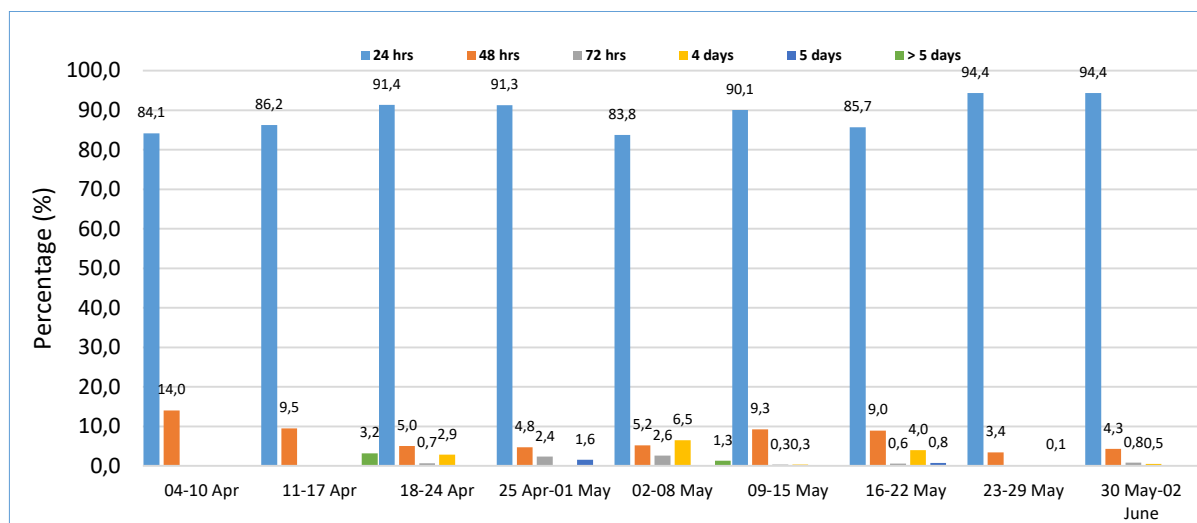
Only 2.5% of the tests did not have information on the age of the person who was tested for SARS-Cov-2.



**Fig. 4. No. of SARS-Cov-2 public sector tests by age group and gender, as of 02 June 2021**

More than half of all the tests (52.7%), which were done in the last 31 days, were predominantly among the female population. Only 44.8% of the tests were among the male population and 2.4% 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.

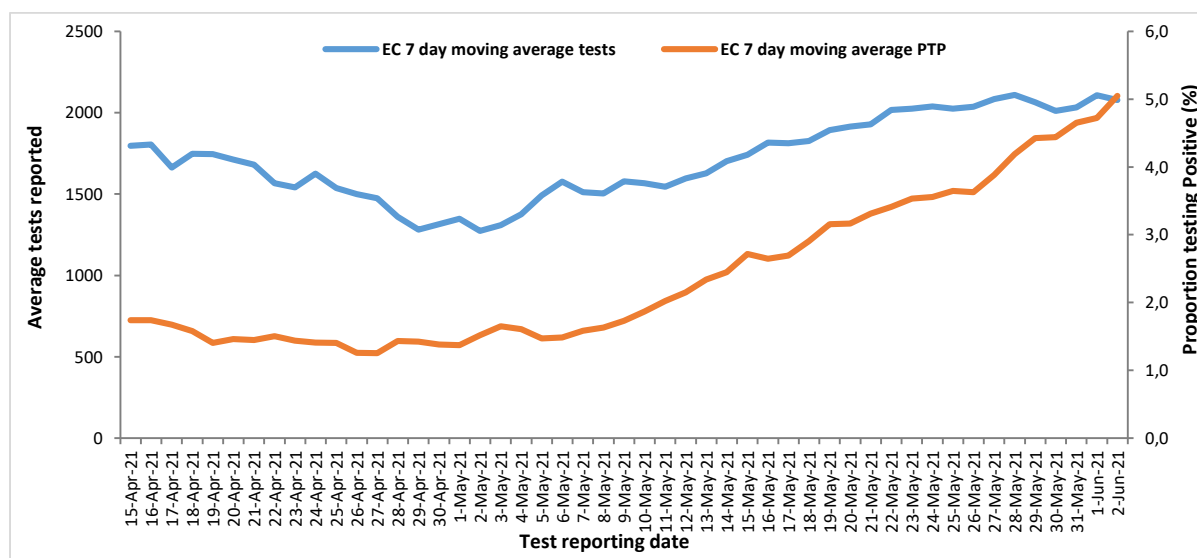
#### 4.4. Turnaround Time



**Fig. 5. Turnaround time for SARS-Cov-2 positive results by week as of 02 June 2021**

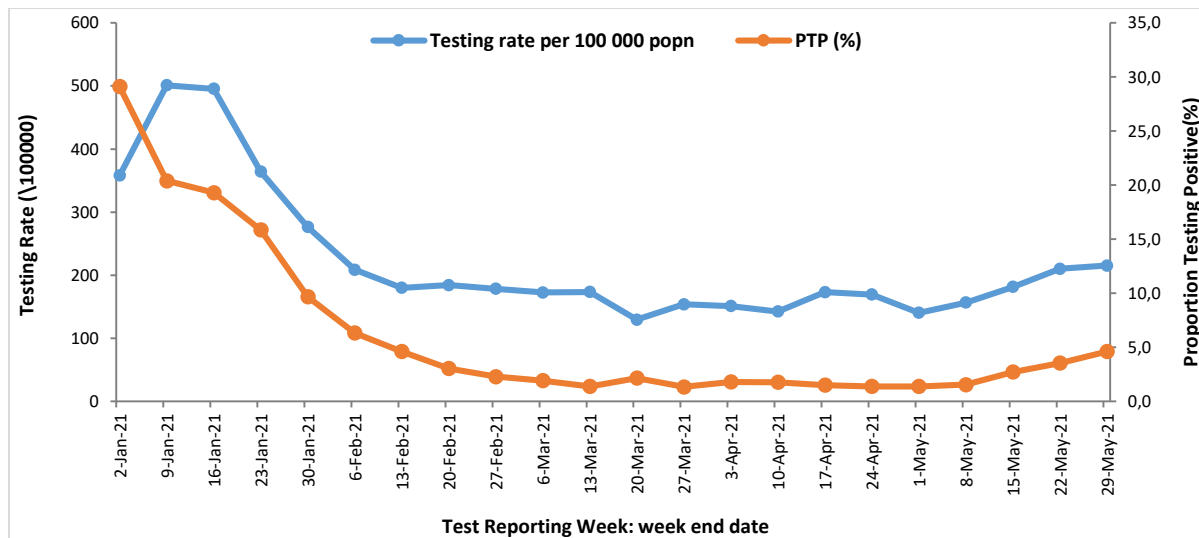
Results that were available within 24 hours has remained the same at 94.4% when comparing the previous week against the current week. Results that were available within 48 hours increased by 0.9% from 97.8% during the previous to 98.7% during the current week.

#### 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 02 June 2021**

In the past 7 days, there is a 0.2% decrease in the number of SARS-Cov-2 tests from 2,083 on the 27<sup>th</sup> May to 2,078 on the 02<sup>nd</sup> of June 2021. The number of tests per day remained the same at 31 tests per 100,000 population per day. The positivity rate has increased by 28.2% from 3.9% to 5% during the same period.

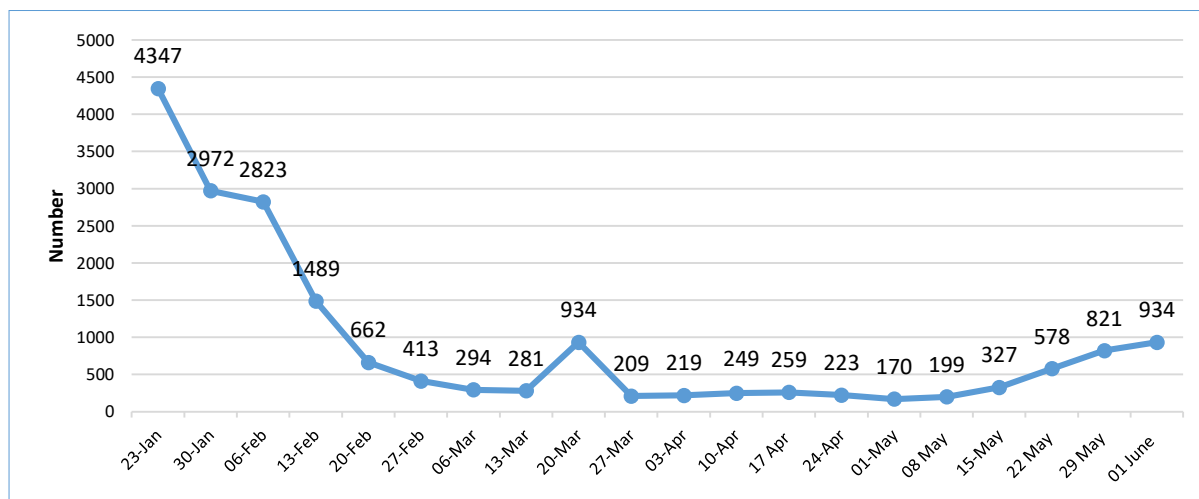


**Fig. 7. Testing Rate for SARS-Cov-2 by week for past 20 weeks, as of 30 May 2021**

The testing rate for SARS-Cov-2 has increased by 2.4% from 210 tests per 100,000 on the 22<sup>nd</sup> of May to 215 tests per 100,000 on the 29<sup>th</sup> of May. The testing rate has increased to more than 200 tests per 100,000 per week.

## 5. ACTIVE CASES, INCIDENCE & POSITIVITY RATE

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

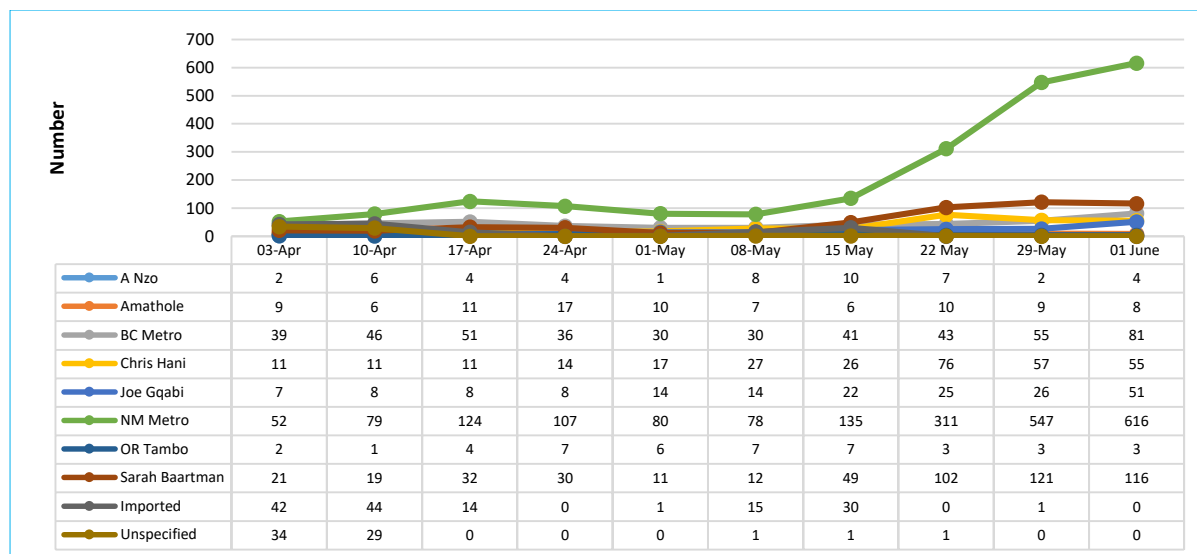


**Fig. 8. Number of active SARS-Cov-2 cases by week, as of 02 June 2021**

The number of active cases has increased by 42% from 578 on the 22<sup>nd</sup> to 821 on the 29<sup>th</sup> of May. Over the past 24 hours, the number of active cases decreased by 20.5% from 775 to 934. There is a need to improve the implementation of non-pharmaceutical preventive measures with the vaccination services.



Figure 9 below provides the number of active cases by districts and the date of collection.



**Fig. 9. Number of weekly Active SARS-Cov-2 cases by district, as of 02 June 2021**

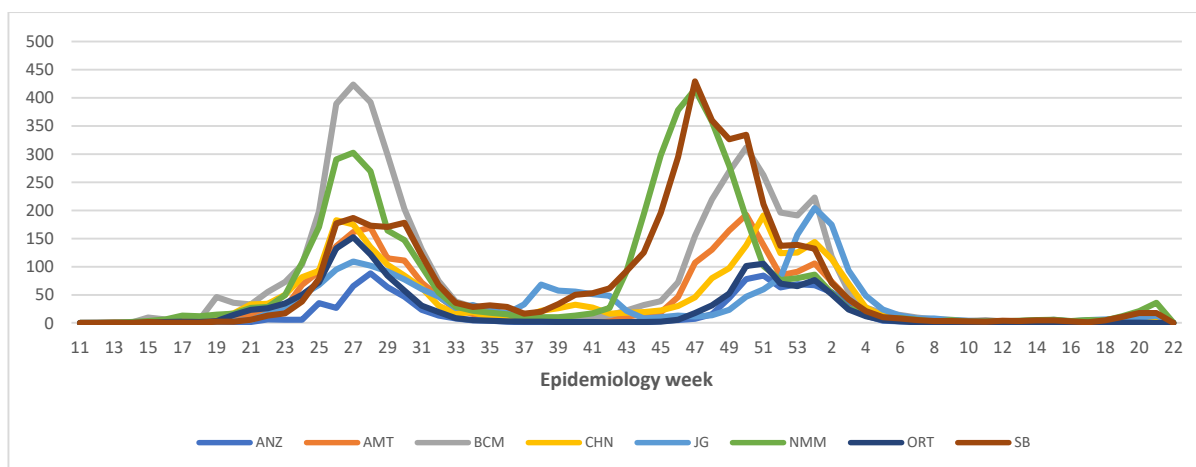
There was a rapid increase in the number of active cases which was observed in 5 districts, i.e. BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman. More than two-thirds of the active cases were from NM Metro, followed by Sarah Baartman (14,7%). Both Chris Hani and Joe Gqabi also have an increase in the number of active cases.

## 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	33 980	8059	4	0,5	23,7
Amathole	798067	83 574	19426	8	1,0	23,2
BC Metro	798798	164 610	39237	81	10,1	23,8
Chris Hani	733743	74 319	19836	55	7,5	26,7
Joe Gqabi	343075	30 263	7733	51	14,9	25,6
NM Metro	1210803	238 532	57348	616	50,9	24,0
OR Tambo	1520922	99 463	22505	3	0,2	22,6
S Baartman	480223	107 061	22135	116	24,2	20,7
Imported		0	677	0	0,0	0,0
Unspecified		156 603	1126	0	0,0	0,7
E.Cape	6713457	988 405	198082	934	13,9	20,0

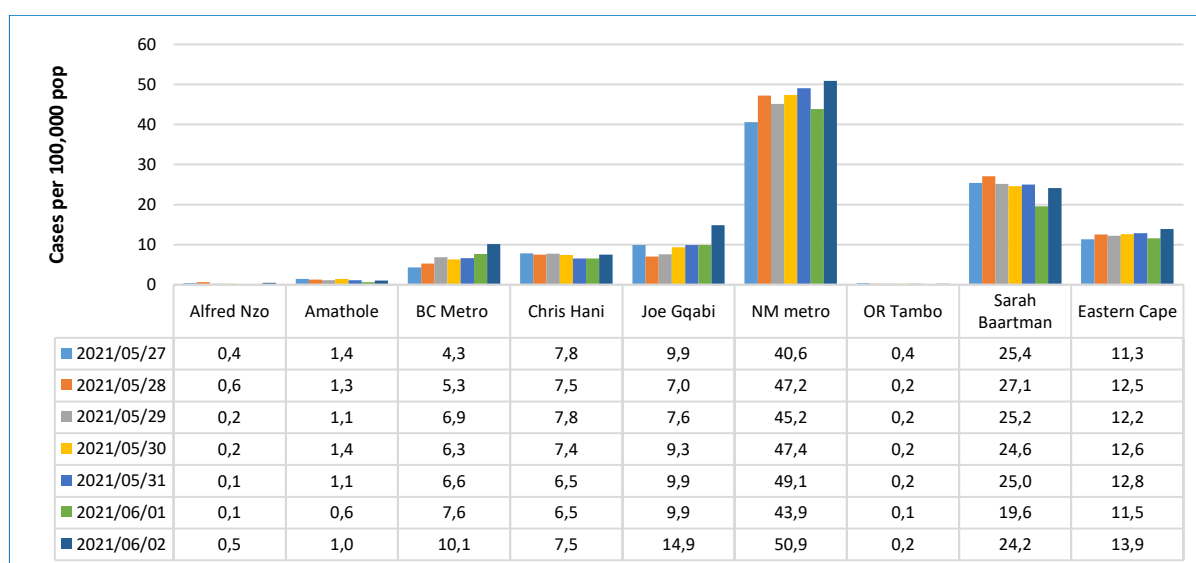
The incidence of SARS-Cov-2 was 13.9 cases per 100,000 populations. Five (5) districts reported more than 5 cases per 100,000 populations, i.e., BC Metro, Chris Hani, Joe Gqabi, NM Metro, and Sarah Baartman. The cumulative positivity rate is at 20%. All districts have less than a 30% positivity rate.

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



**Fig. 10. Incidence of SARS-Cov-2 cases by epidemiological week, as of 02 June 2021**

Between weeks 18 and 21, there was a significant increase in the number of new and active cases, after a long duration of low transmission. This increase was observed in NM Metro, Sarah Baartman, Joe Gqabi and Chris Hani.

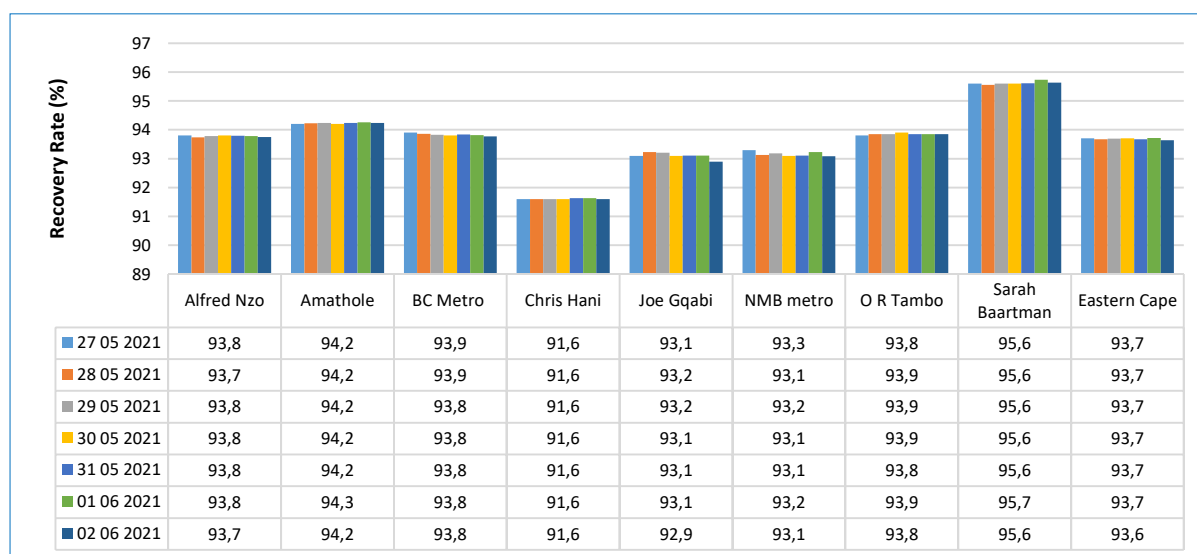


**Fig. 11. Active SARS-Cov-2 cases (per 100,000 pop) by district, as of 02 June 2021**

In the past 7 days, the incidence of SARS-Cov-2 increased by 23% from 11.3 cases per 100,000 population to 13.9 cases per 100,000 population. Three (3) districts have less than 5 cases per 100,000 populations, i.e. Alfred Nzo, Amathole, and OR Tambo. Five (5) districts have more than 5 cases per 100,000 populations, i.e., BC Metro, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman.

## 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.

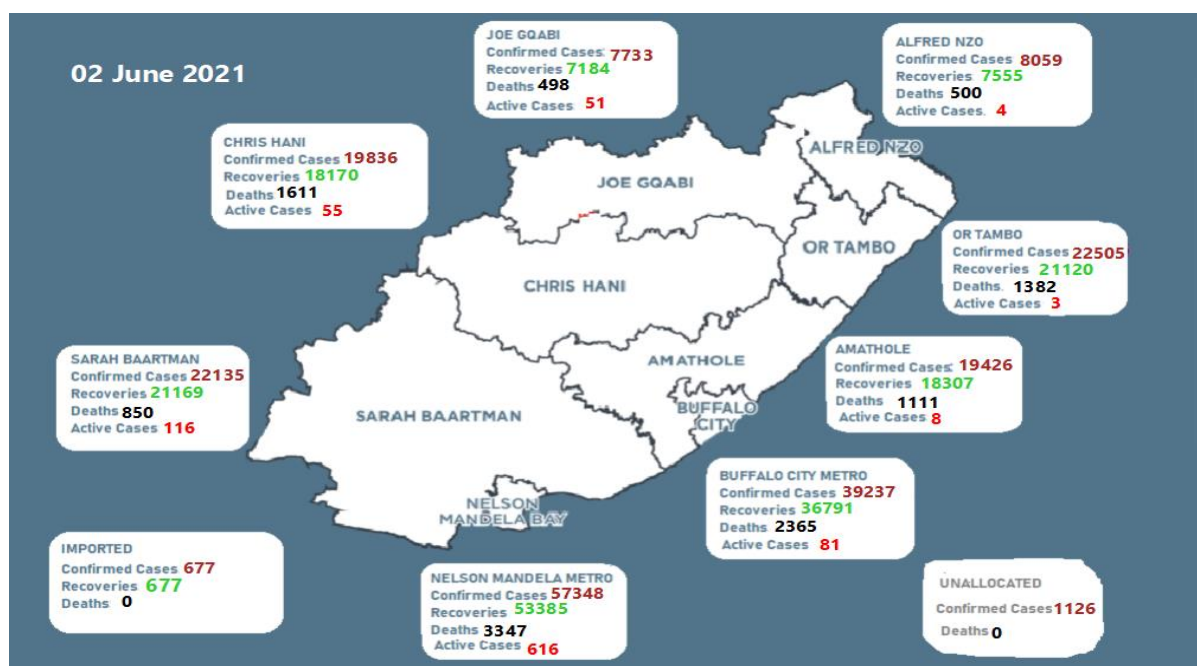


**Fig. 12. SARS-Cov-2 Recovery Rate (%) by districts, as of 02 June 2021 (N=185,484)**

As the number of new and active cases increases, the recovery rate also decreases. The recovery rate decreased by 0.1% from 93.7% to 93.6% in the past 7 days.

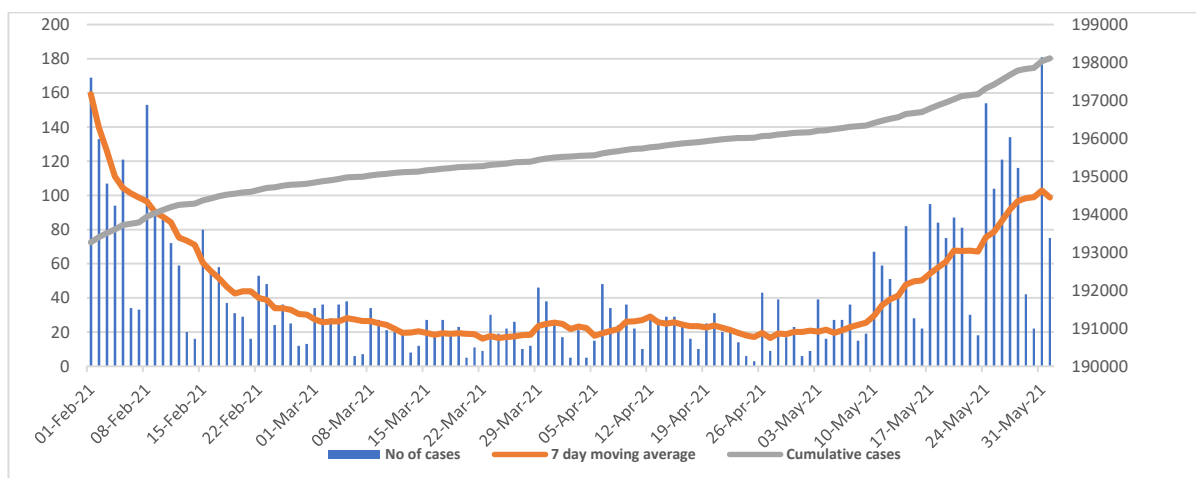
## 5.5. Mapping of active cases, recoveries, and deaths

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 02 June 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 02 June 2021**

The end of the second wave marked a new period of low transmission of SARS-Cov-2 from the end of January. From the second week of May, there was a rapid increase in the number of new cases until to date.

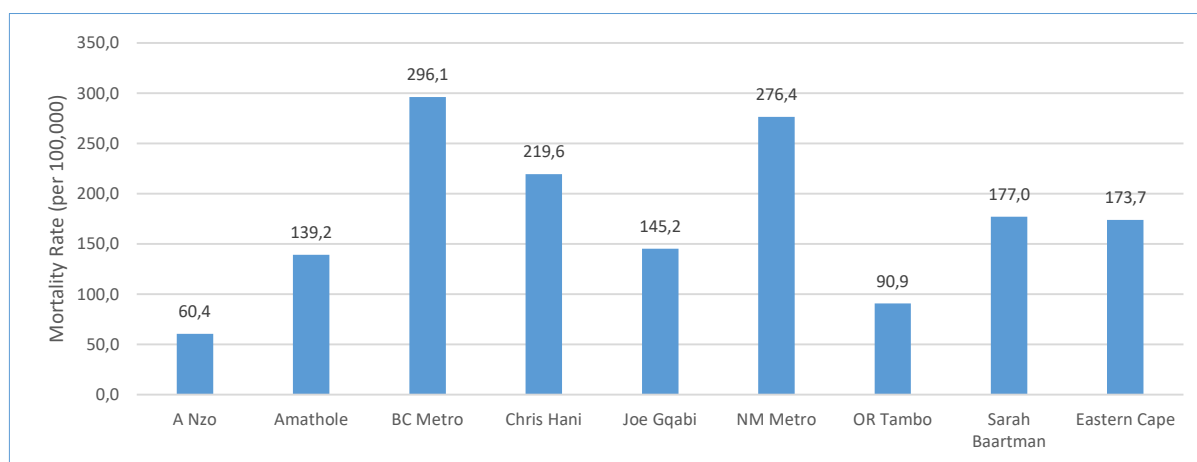
## 7. SARS-Cov-2 RELATED MORTALITY

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

The table below provides the number of cases, deaths, and mortality rate by 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	2,4	8,7	4,2
Jun-20	23793	1036	8,9	4,4	15,4
Jul-20	50291	2035	17,4	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	23,8	6,5	41,4
Jan-21	18168	1918	16,4	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	56	0,5	9,0	0,8
May-21	1964	80	0,7	4,1	1,2
Unknown	0	145	1,2	0,0	2,2
<b>Total</b>	<b>198082</b>	<b>11664</b>	<b>100,0</b>	<b>5,9</b>	<b>173,7</b>

Twenty-four percent (23.8%) of the deaths occurred in December; 16.4% in January; 2.7% in February; 0.9% in March; 0.5% in April; and 0.7% in May. The Case Fatality Rate was 6.5% in December, 10.6% in January, 18.2% in February, 15.3% in March, 9% in April and 4.1% in May. Between November and January, the mortality rate was above 20 per 100,000.

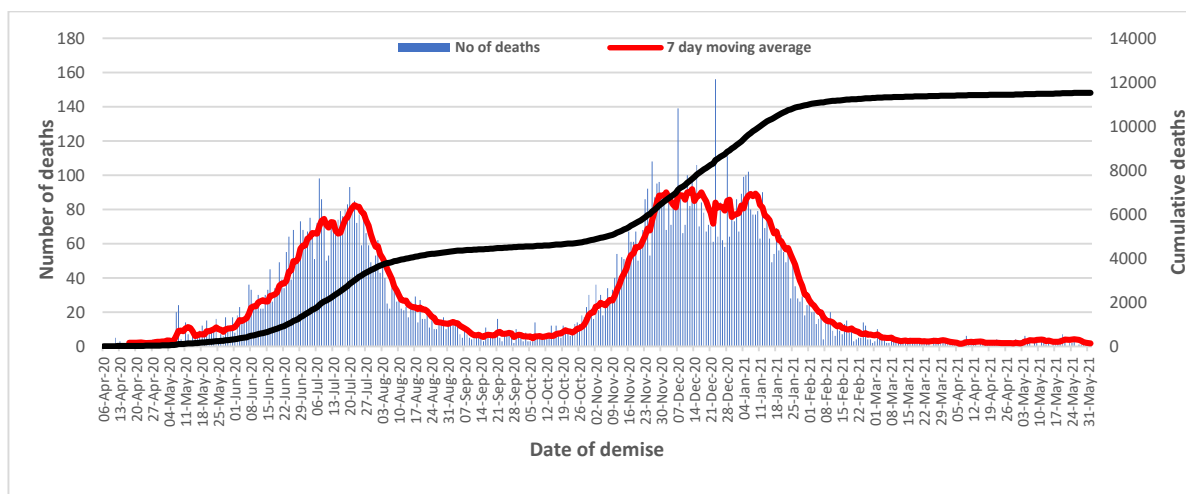


**Fig. 15. SARS-Cov-2 related mortality per 100,000 by district, as of 02 June 2021**

The provincial mortality rate was 173.7 deaths per 100,000 populations. BC Metro reported the highest mortality rate at 296.1 per 100,000; followed by NM Metro (276.4 per 100,000), Chris Hani (219.6 per 100,000) and Sarah Baartman (177 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.

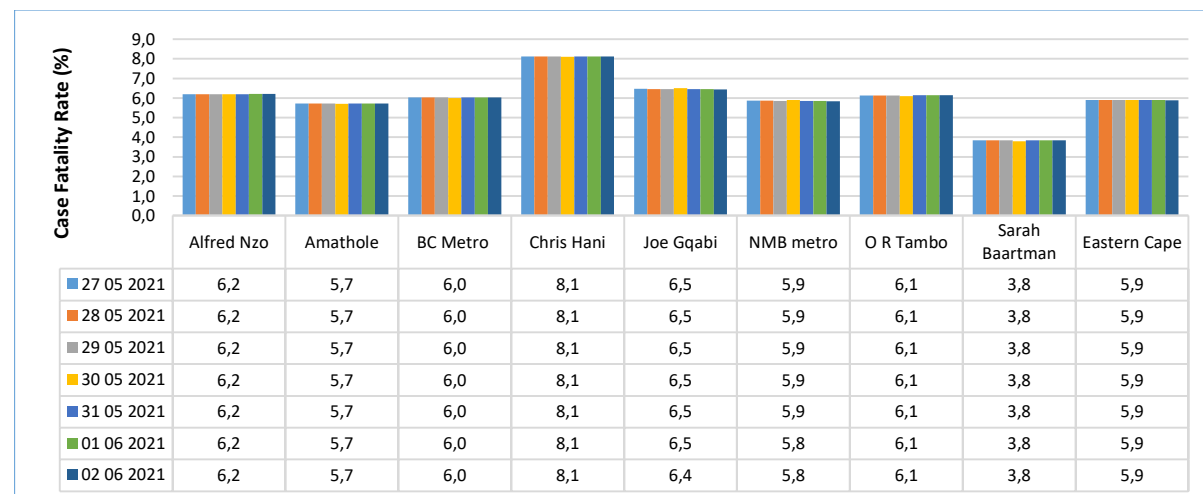


**Fig. 16. Daily and cum. SARS-Cov-2 related deaths by date of demise, as of 02 June 2021**

The second wave appears to have been severe compared to the first wave, i.e., there were more cases and more deaths compared to the first wave. And the duration of the second wave was longer than the first wave. The number of deaths continues to decline from the first week of January until to date. However, with the increase in the number of cases, there is a need to strengthen the reporting of the deaths including post-mortem tests.

### 7.3. Case Fatality Rate by district

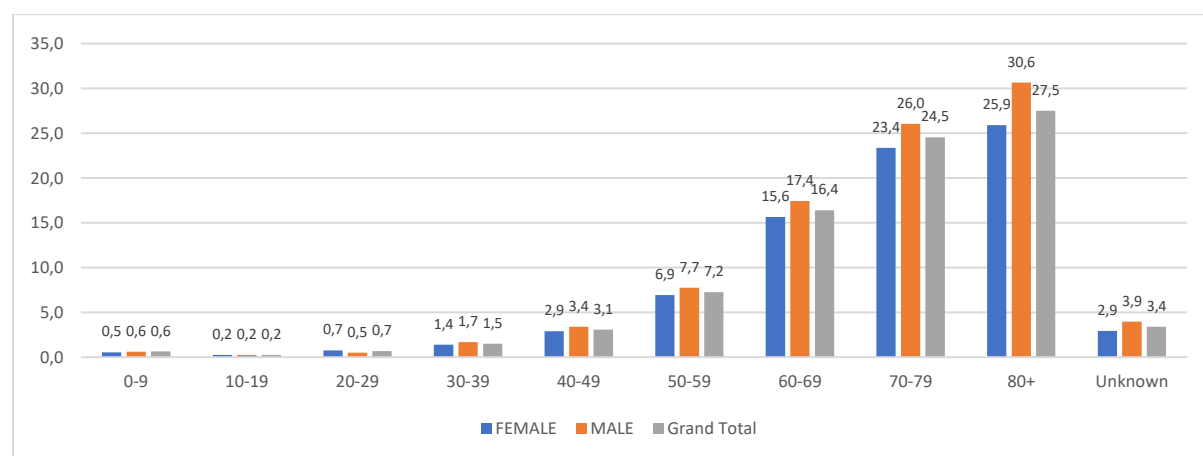
Chris Hani reported 8.1% of the SARS-Cov-2 deaths, followed by Joe Gqabi (6.5%), Alfred Nzo (6.2%), OR Tambo (6.1%), BC Metro (6%), NM Metro (5.8%), Amathole (5.7%) and the lowest being Sarah Baartman (3.8%).



**Fig. 17. SARS-Cov-2 Case Fatality Rate (%) by district, as of 02 June 2021 (N=11,664)**

The case fatality rate has not changed for more than 7 days, including all the districts. From February, the number of SARS-Cov-2 related deaths has declined significantly.

### 7.4. Case Fatality Rate by age group

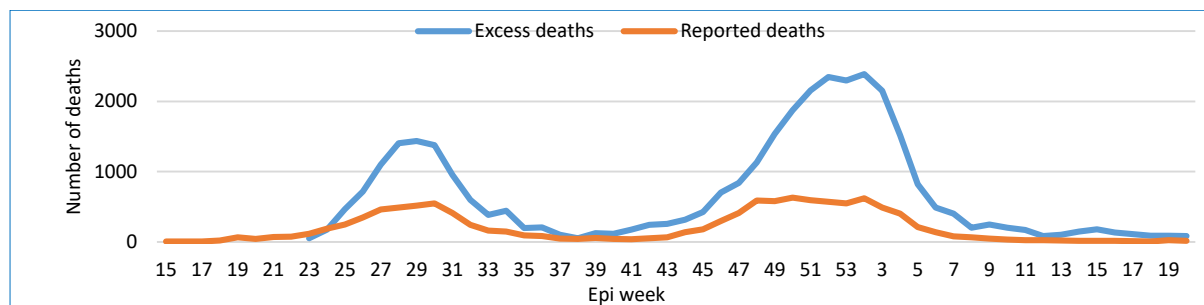


**Fig. 18. SARS-Cov-2 related Case Fatality Rate (%) by age group, as of 02 June 2021**

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.

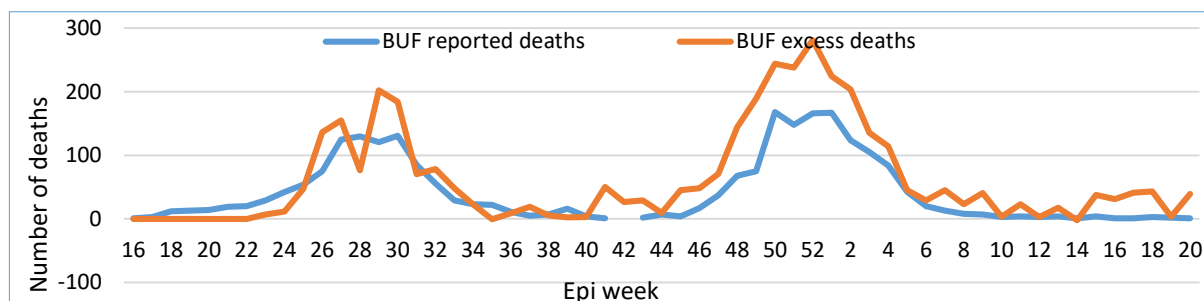
## 7.5. Excess versus reported deaths

Data is from the Medical Research Council (as of the 15<sup>th</sup> May 2021) and ECDOH (24 May).

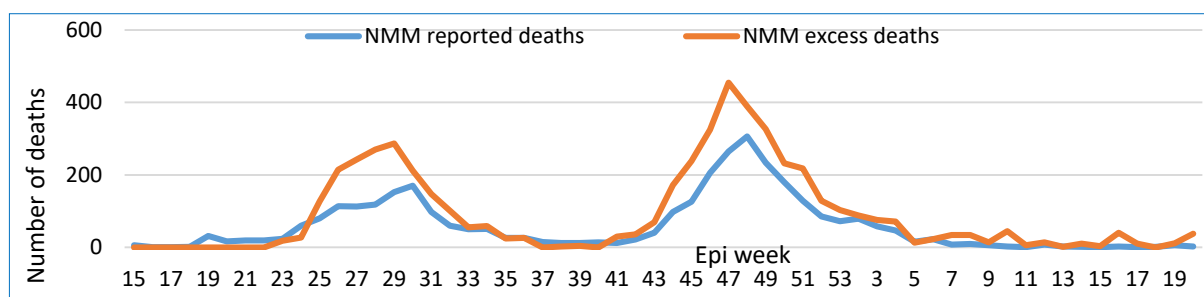


**Fig. 19. Excess & reported Covid-19 deaths by week, as of 24 May 2021 (ECDOH, MRC<sup>1</sup>)**

The number of excess deaths from the MRC 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. 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. 20. Reported SARS-Cov-2 versus excess deaths in BC Metro, as of the 24 May 2021**



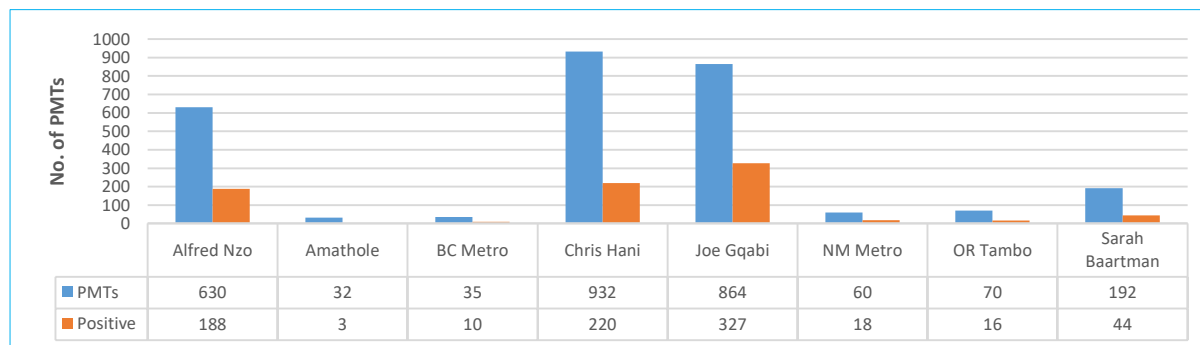
**Fig. 21. Reported SARS-Cov-2 versus excess deaths in NM Metro, as of the 24 May 2021**

Figures 20 and 21 shows that the gap between the number of excess deaths in BC Metro and NM Metro appears to be narrower, which is contrary to the provincial picture.

<sup>1</sup> Medical Research Council (MRC) data was updated on the 15<sup>th</sup> May 2021

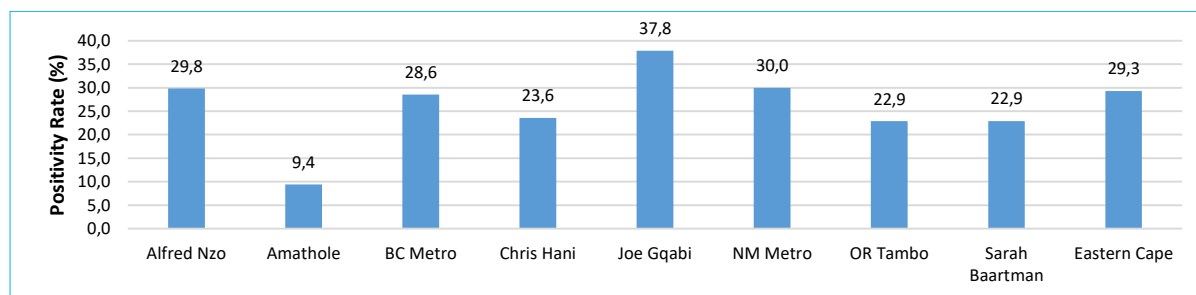
## 7.6. Post-mortem tests (PMTs) and results

To date, 2,815 PMTs were done and 826 confirmed positive for SARS-Cov-2.



**Fig. 22. Number of Post-Mortem Tests & Positive Cases by district, as of 01 June 2021**

Of all the PMTs; 2,426 (86.2%) were from Alfred Nzo, Chris Hani and Joe Gqabi. Similarly, 735 of the 826 (89%) confirmed cases were from the 3 districts.



**Fig. 23. Post-mortem SARS-Cov-2 positivity rate by district, as of 01 June 2021**

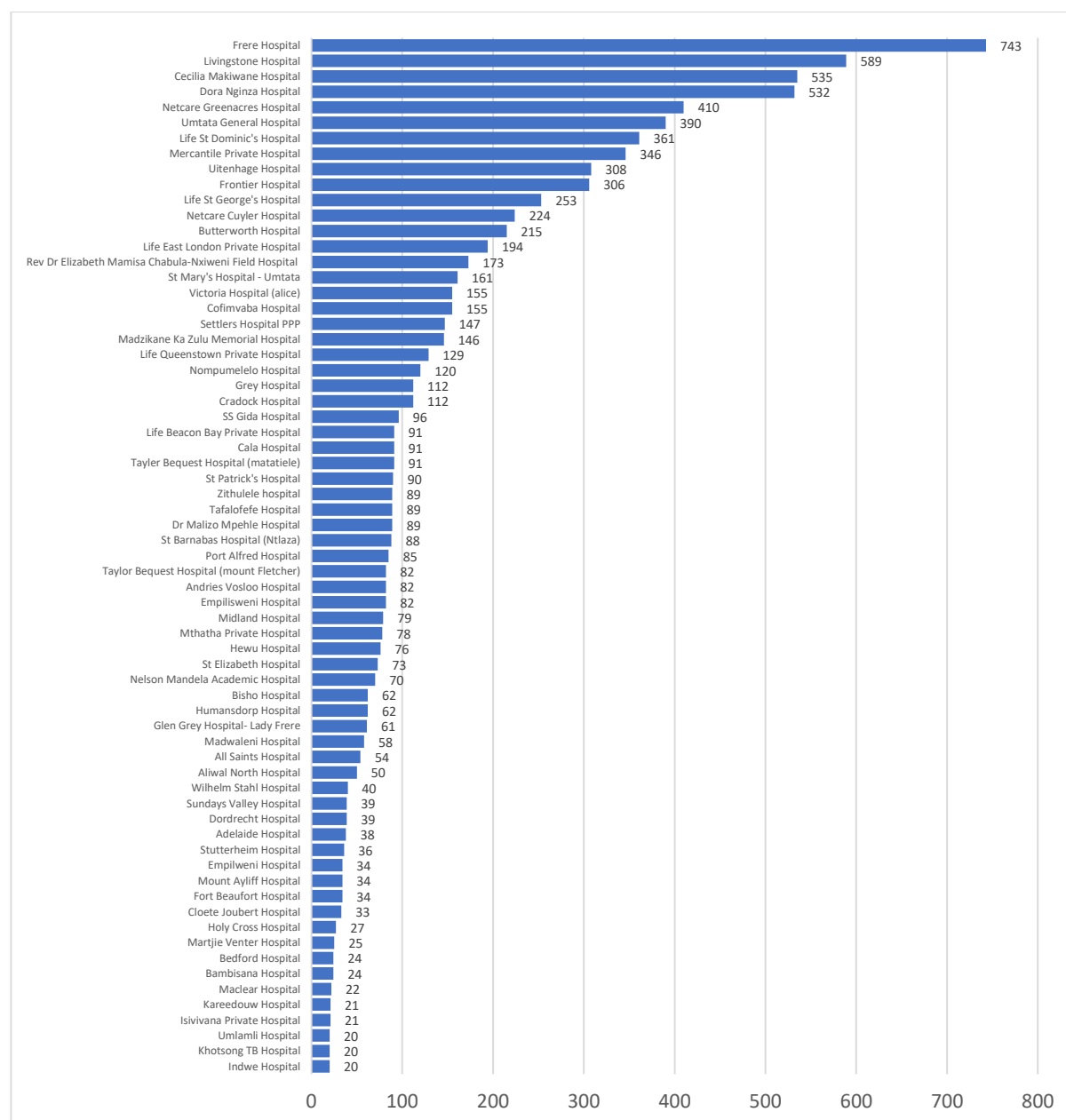
Twenty-nine percent (29.3%) of the PMTs tested positive. Joe Gqabi reported the highest positivity rate, followed by NM Metro, Alfred Nzo, BC Metro and Chris Hani.

	16-22 May		23-29 May		30-31 May		09-27 May	
	PMTs	Positive	PMTs	Positive	PMTs	Positive	PMTs	Positive
Alfred Nzo	33	5	21	1	17	1	71	7
Amathole	5		3		1		9	0
BC Metro	1		0		0		1	0
Chris Hani	36	7	27	3	24	3	87	13
Joe Gqabi	27	2	30	1	27	1	84	4
NM Metro	1		0		0		1	0
OR Tambo	7		6		4	0	17	0
Sarah Baartman	5		2		1	0	8	0
<b>Eastern Cape</b>	<b>115</b>	<b>14</b>	<b>89</b>	<b>5</b>	<b>74</b>	<b>5</b>	<b>278</b>	<b>24</b>

In the past 19 days, 24 of the 278 PMTs tested positive for SARS-Cov-2. Alfred Nzo, Chris Hani and Joe accounted for 242 PMTs (85,4%). About 83.3% i.e. 20 of the 24 confirmed cases were from Alfred Nzo and Chris Hani. There was an improvement in the number of PMT in Amathole and OR Tambo.



## 7.6. Deaths by health facilities



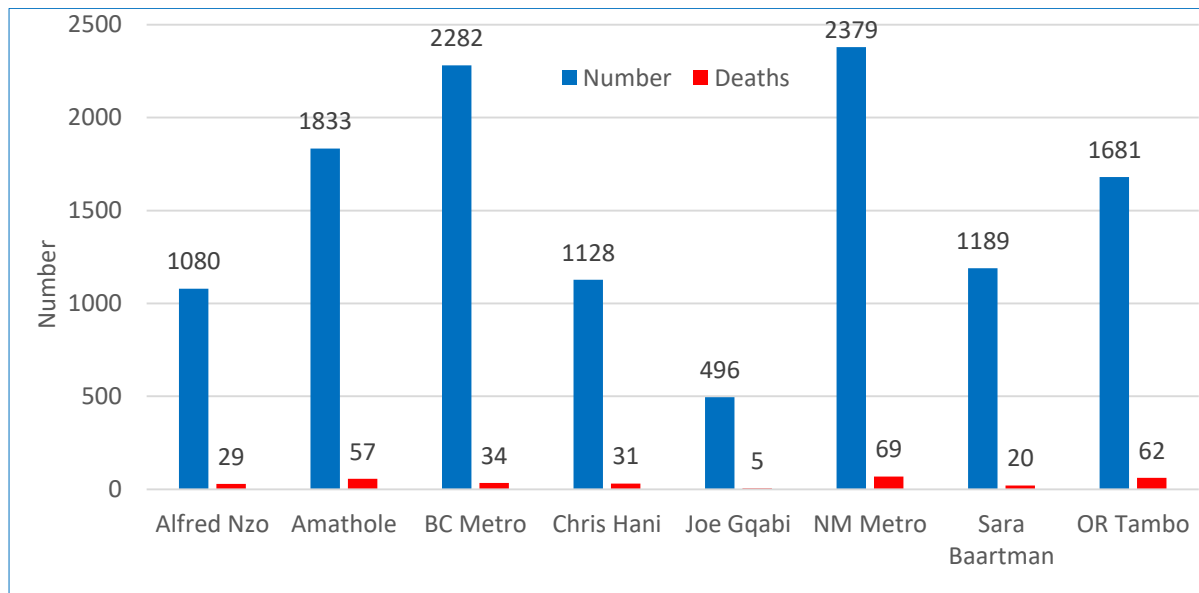
**Fig. 24. Number of SARS-Cov-2 related deaths by the facility, as of 31 May 2021**

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. These hospitals reported more than 200 deaths from the beginning of the pandemic. Only hospitals with a minimum of 20 deaths are included in the above-mentioned figure.

## 6. HEALTHCARE WORKERS

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

The number of HCWs who tested SARS-Cov-2 positive was 12,068 and 307 persons demised.



**Fig. 25. SARS-Cov-2 positive Healthcare Workers, as of 02 May 2021 (N = 12,068)**

The number of healthcare workers who tested positive for SARS-Cov-2 in Nelson Mandela Metro was 2,379 (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 1,080 cases (29 deaths).

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

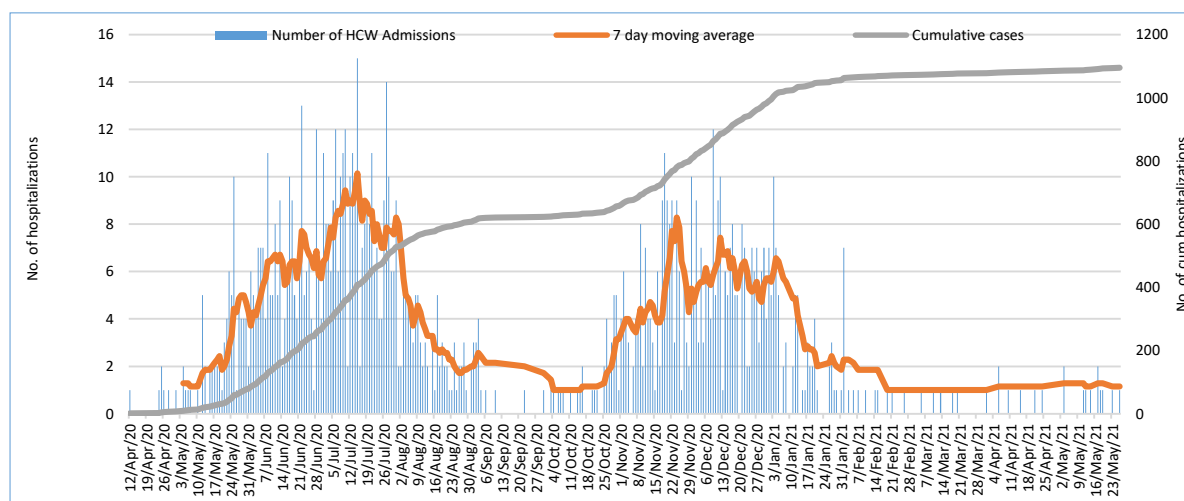
The table below provides the number of selected healthcare professionals employed by the State and SARS-Cov-2 cases by job categories, and the positivity rate of that job category.

	Population	Cases	Positivity Rate (%)
Admin	12434	816	6,6
Allied Professionals	3041	235	7,7
Doctors & Clinical Assoc	2369	459	19,4
Nurses	20650	5026	24,3
Emergency Medical Services	2498	298	11,9

The positivity rate among the nurses was 24,3%, followed by doctors and clinical associates (19,4%), allied professionals (7,7%), EMS (11,9%), and admin personnel (6,6%). 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

The cumulative number of admissions was 1,095 health workers. From January to date, 110 healthcare workers were hospitalized, i.e. 73 on January, 16 in February, 5 on March, 7 in April, and 11 in May. The last admission was on the 26<sup>th</sup> of May 2021. In the last 48 hours, there were no new admissions of HCWs.

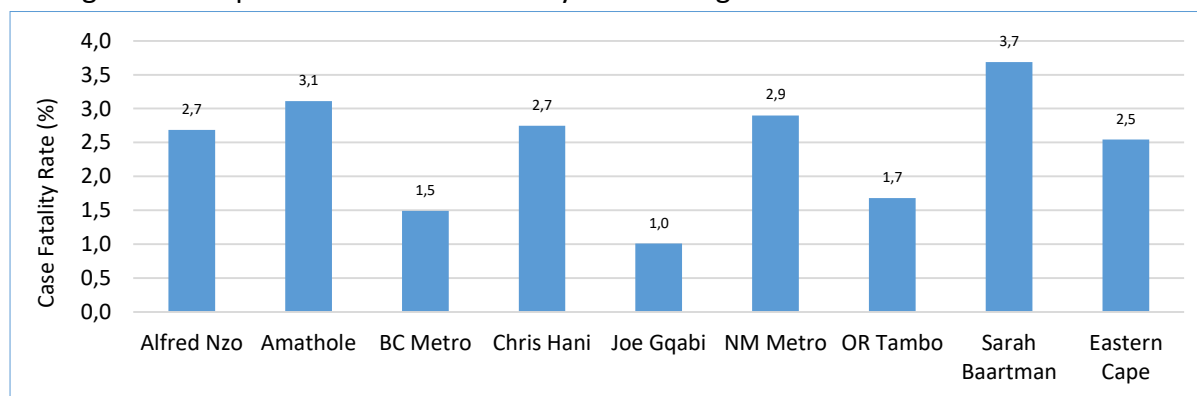


**Fig. 26. No. of SARS-Cov-2 related admissions of healthcare workers, as of 28 May 2021**

This graph appears to be mimicking the epi-curve and admissions of the general population including during the first and the second waves. There was less hospitalization of HCWs from February to date compared to 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 24 May 2021 (N=307)**

The case fatality rate among healthcare workers was 2,5%. More than 1% case fatality was reported 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

The cumulative number of hospitalizations was 31,888.

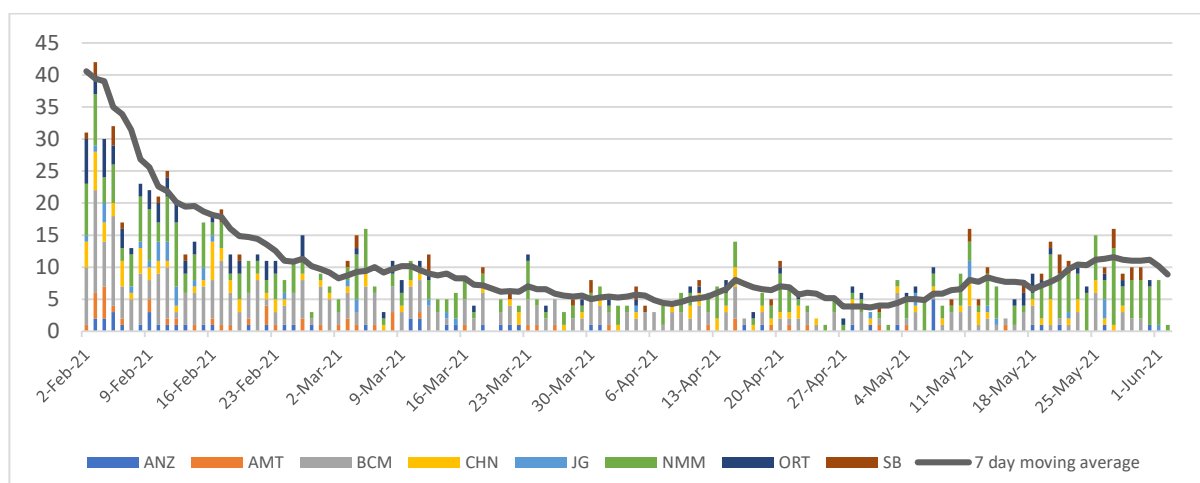
Table 8. No. of SARS-Cov-2 related hospitalizations and outcomes, as of 31 May 2021				
Districts	Public	Private	Total	Percentage (%)
Alfred Nzo	1683	107	1790	5,6
Amathole	2363	0	2363	7,4
Buffalo City Metro	4256	3171	7427	23,3
Chris Hani	2571	746	3317	10,4
Joe Gqabi	721	0	721	2,3
Nelson Mandela Bay Metro	6678	4562	11240	35,2
O R Tambo	2365	899	3264	10,2
Sarah Baartman	1614	152	1766	5,5
<b>Eastern Cape</b>	<b>22251</b>	<b>9637</b>	<b>31888</b>	<b>100</b>

The number of hospitalizations in public was 22,251 (69.8%) and 9,637 (30.2%) in private.

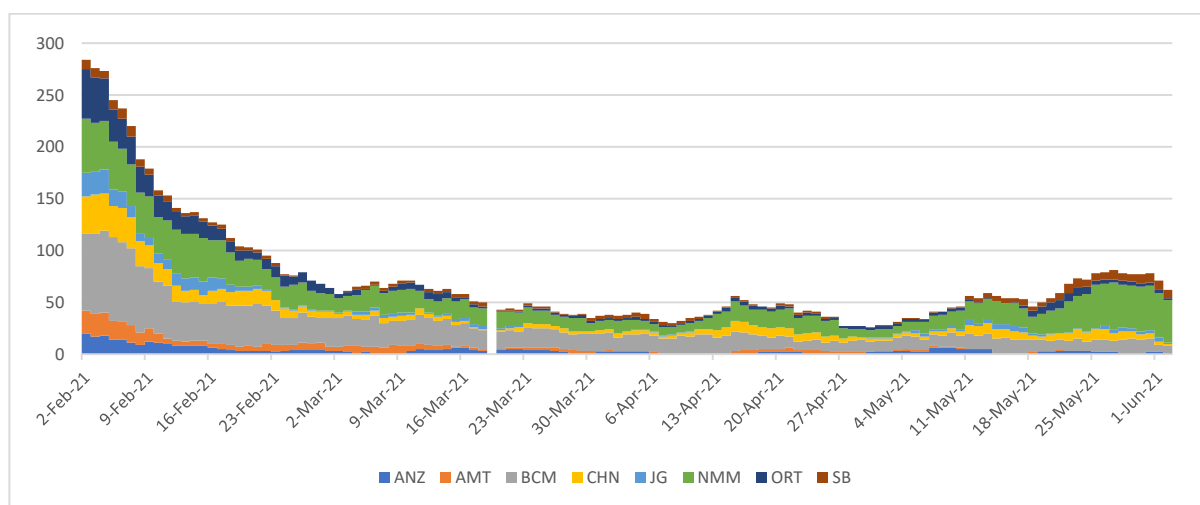
Table 8. No. of SARS-Cov-2 related hospitalizations and outcomes, as of 31 May 2021			
Eastern Cape	Public	Private	Total
Cumulative Admissions	22251	9637	<b>31888</b>
Died	7194	2294	9488
Discharged Alive	13458	7209	20667
Transferred Out	1550	35	1585
Currently Admitted	39	95	134
In ICU	1	21	22
In High Care	1	1	2
In General	37	73	110
On Oxygen	14	5	19
Ventilated	4	6	10

Sixty-five percent (64.8%), i.e. 20,667 of hospitalized patients were discharged alive and 13,458 (65.1%) occurred in public sector. Thirty percent (29.8%) of hospitalized cases, i.e. 9,488 demised and 7,194 (75.8%) occurred in public sector facilities.

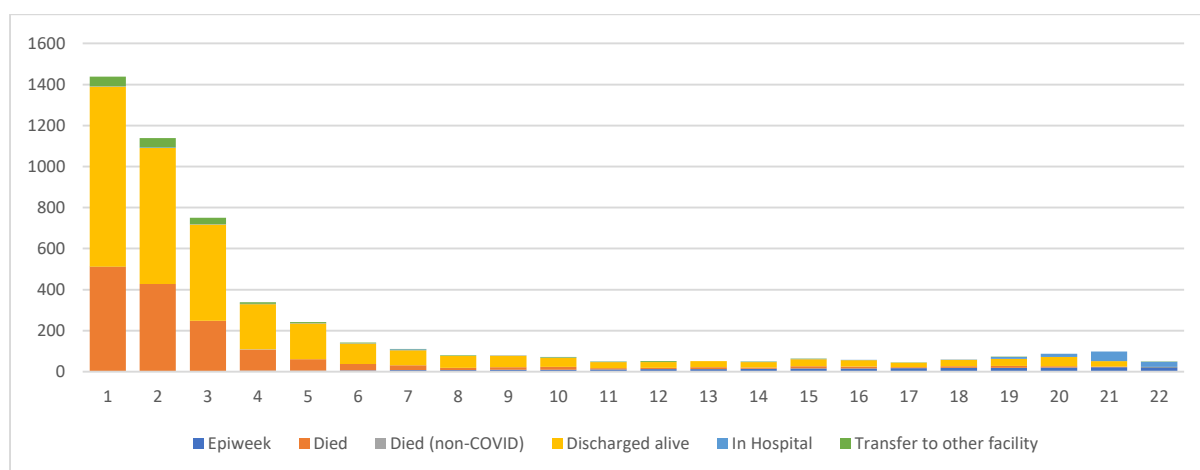
The number of currently admitted hospitalizations was 134, i.e. 95 in private and 39 in public sector facilities. About 110 cases (82.1%) were admitted in the General Ward (73 in private & 37 in public sector); 22 (16.4%) in ICU (21 in private & 1 in public); 2 (1.5%) in High Care; 19 (14.2%) on oxygen (14 in public & 5 in private) and 10 (7.5%) was on ventilation (4 in public and 6 in private sector).



**Fig. 28. Average (7 days moving) daily admissions by districts, as of 02 June 2021 (DATCOV)**



**Fig. 29. No. of hospitalizations by date of admission for each district, as of 02 June 2021**

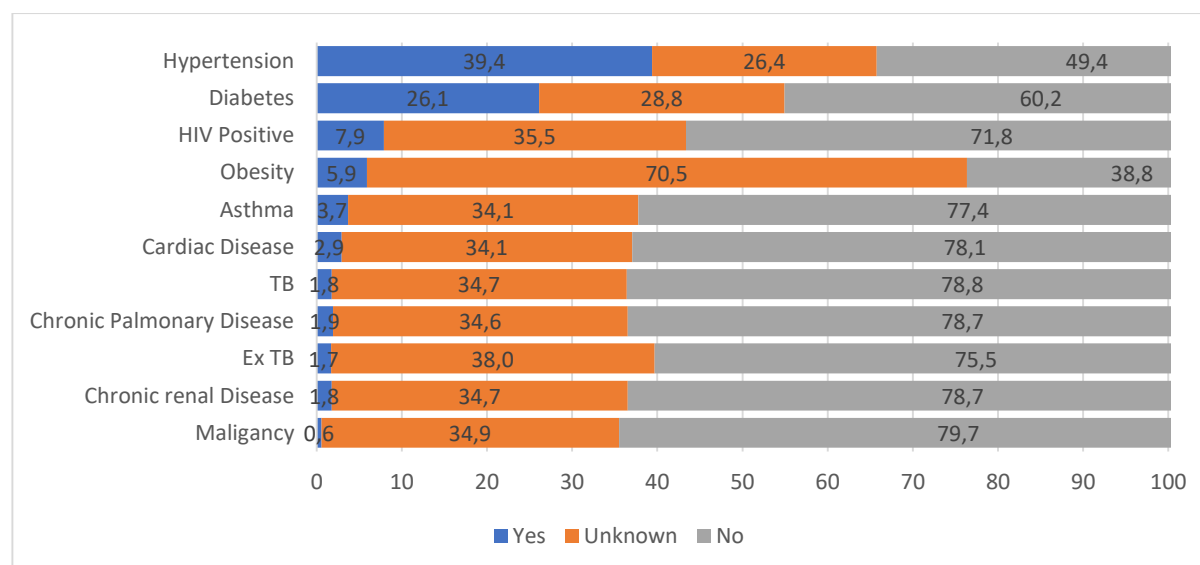


**Fig. 30. Hospitalizations & outcomes by admission week, as of 02 June 2021 (DATCOV)**

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

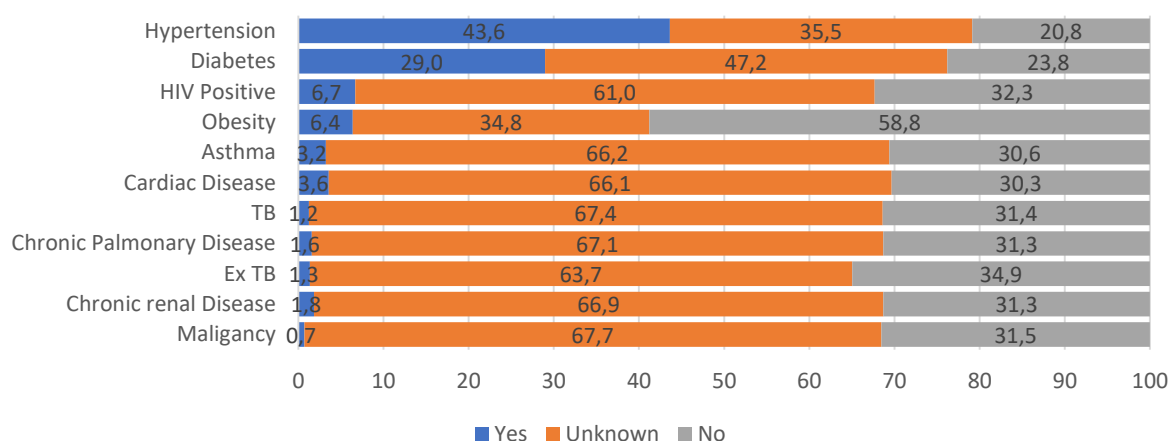
## 7.2. Co-morbidities among admitted cases and deaths

The most common co-morbidities among the hospitalized SARS-Cov-2 patients were hypertension (39.4%) and diabetes (26.1%) among hospitalized SARS-Cov-2 cases. Two other commonly reported co-morbidities HIV (7.9%), obesity (5.9%) and asthma (3.7%).



**Fig. 31. Co-morbidities among SARS-Cov-2 hospitalizations, as of 02 June 2021 (DATCOV)**

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



**Fig. 32. Co-morbidities among SARS-Cov-2 cases who demised, as of 02 June 2021 (DATCOV)**

The most common comorbidities among those cases that demised in the hospital include hypertension (43.6%) and diabetes (29%). Other 4 co-morbidities were reported, i.e. HIV (6.7%), obesity (6.4%), cardiac diseases (3.6%), and asthma (3.2%).



3 577 773

No Screened



988 405

Total Lab Tests



198 082

Positive Cases



185 484

Recoveries



11 664

Deaths

DISTRICT	TOTAL SCREENED	TOTAL TESTED	TOTAL CASES	RECOVERIES	DEATHS	ACTIVE CASES	AREAS
ALFRED NZO	694 706	33 980	8 059	7 555	500	4	Badibanise, Bhakubha, Bizana, Brooksnek, Cedarville, Chithwa, Dutyini, Emanxiweni, Ezinteteni, Kokstad, Lucingweni, Matatiele, Matatiele, Mount Ayliff, Mount Frere, Ndlantana, Ngingo, Ntabakhulu, Sugar Bush, Tabankulu
AMATHOLE	658 126	83 574	19 426	18 307	1111	8	Adelaide, Alice, Bolotwa, Butterworth, Cathcart, Centane, Cuba, Debe Nek, Dikana, Elliotdale, Ethafeni, Frankfort, Fort Beaufort, Ibika, Idutywa, Keiskammahoek, Willowdale, Lower Mhangcolo, Debe Nek, Mgababa, Nyaniso, Peddie
BUFFALO CITY METRO	210 367	164 610	39 237	36 791	2365	81	Abbottsford, Amalinda, Beacon Bay, Bisho, Braemlyn, Buffalo Flats, Dimbaza, Duncan Village, East London, Ginsberg, Gonubie, Greenfields, Haven Hills, King William's Town, Mamata, Mdantsane, Masingata, Mantlani, Nahoon, Ndevana, Needs Camp, Parkside, Selbourne, Sunnyridge, Sunset Bay, Tshatshu, Vincent, West Bank, Zwelitsha
CHRIS HANI	515 346	74 319	19 836	18 170	1611	55	Bankies, Dordrecht, Dukathole, Ekunene, Ezibeleni, Kwanobuhle, Mkwangele, Madeira Park, New Rest, Ngcobo, Ngonyama, Popcorn Valley, Qebe, Qoqodala, Queenstown, Sigadleni, Vaalbank, Sada, Middleburg, Thornhill, Ndzamela, Mlungisi, Westbourne, Nttonze, Maya Village, Ekuphumuleni, TopTown, Vleipoot, Zola
JOE GOABI	87 855	30 263	7 733	7 184	498	51	Aliwal North, Barkley East, Bhodi, Land Camp, Ugie, Inglewood, Maclear, Solomzi, Sunduza, Robberson, Venterstads
NELSON MANDELA METRO	856 883	238 532	57 348	53 385	3347	616	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, Khayalethu, 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	99 463	22 505	21 120	1382	3	Gomora, Lutatweni, Machibi, Majola, Mandilini, New Payne Ngqeleni, Ntsimbini, Old Payne, Libode, Lusikisiki, Mqanduli, Tombo, Marhewini, Mpikwana, Bhongweni, Ciben, Flagstaff, Magcakeni, Ngangelizwe, Ngqanda, Tyebelana, Pollar Park, Tabase Mission, Slovo Park, Southernwood, Waterfall Park, Zandukwana, Zimbane, Ziphonzana
SARAH BAARTMAN	288 877	107 061	22 135	21 169	850	116	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	677	677	0	0	Bloemfontein, Ceres, Cape Town, Dunoon, Fishoek, George, Green Point, Gugulethu, Hout Bay, Langa, Khayelitsha, Knysna, Phillipi, Stellenbosch, Strand
PENDING	-	156 603	1126	1126	0	0	
GRAND TOTALS	3 577 773	988 405	198 082	185 484	11 664	934	

## 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.

PROVINCE						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	60	89	48,3		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	8,58	12,19	42,1		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	100	118	18,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,90	0,13	-85,6		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,7			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		249			There should be 5 tests for each positive case per 100000 population

ALFRED NZO						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	1	-66,7		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,85	0,24	-71,8		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	1	3	200,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,32	0,12	-62,5		< 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 a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		93			There should be 5 tests for each positive case per 100000 population

AMATHOLE						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	2	0	-100,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	1,25	1,13	-9,6		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	0	0	0,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,22	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		1,0			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		38			There should be 5 tests for each positive case per 100000 population



BUFFALO CITY METRO						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	6	100,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	5,38	6,89	28,1		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	24	23	-4,2		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,38	0,13	-65,8		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		5,9			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		92			There should be 5 tests for each positive case per 100000 population

CHRIS HANI						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	8	7	-13		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	10,36	7,77	-25		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	6	14	133		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	1,05	0,55	-48		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,1			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		204			There should be 5 tests for each positive case per 100000 population

JOE GQABI						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	4	5	25		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	7,29	7,58	4		< 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	1,05	0,21	-80		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		5,7			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		186			There should be 5 tests for each positive case per 100000 population

NELSON MANDELA BAY						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	34	59	73,5		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	25,69	45,18	75,9		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	56	65	16,1		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	2,78	0,08	-97,1		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		6,9			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		498			There should be 5 tests for each positive case per 100000 population

OR TAMBO						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	3	0	-100,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,20	0,20	0,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	9	6	-33,3		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,16	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		0,1			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		74			There should be 5 tests for each positive case per 100000 population

SARAH BAARTMAN						
Indicator	Description	week 20	week 21	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	10	11	10,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	21,24	25,20	18,6		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	4	4	0,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	2,17	0,21	-90,3		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		8,8			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		175			There should be 5 tests for each positive case per 100000 population