

## Daily Epid. Report for SARS-Cov-2

Report No. 446

Date Issued: 23<sup>rd</sup> 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 23<sup>rd</sup> June 2021.

### 2. HIGHLIGHTS

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

- In the past 24 hours, **637 new cases and 43 deaths** were reported. Sixty-one percent (60.8%) of the new cases were from NM Metro (387 cases); Sarah Baartman (82 cases, 12.9%); BC Metro (67 cases, 10.5%); Chris Hani (30 cases, 4.7%); Joe Gqabi (28 cases, 4.4%); Amathole (18 case, 2.8%); Alfred Nzo (11 cases, 1.7%) and OR Tambo (11 cases, 1.7%).
- Sixty-eight percent (67.6%) of the active cases were from NM Metro (2356 cases) followed by Sarah Baartman (391 cases, 11.2%); BC Metro (358 cases, 10.3%); Joe Gqabi (127 cases, 3.6%); Chris Hani (100 cases, 2.9%); Amathole (48 cases, 1.4%); OR Tambo (41 cases, 1.2%) and Alfred Nzo (38 cases, 1.1%).
- The number of recoveries was 188,430, i.e. 92.5% recovery rate.

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

- Forty-three (43) deaths were reported in the past 24 hours, and 8 occurred within the past 48 hours. Six deaths occurred in May and 37 occurred in June. About 36 deaths were from Nelson Mandela Metro and 33 of that were reported by private facilities.

#### 2.3. Hospitalizations and outcomes

- The cumulative number of hospitalizations was 32,484, i.e. 22,472 (69.2%) in public and 10,012 (30.8%) in private. Sixty-five percent (64.5%), i.e. 20,955 of hospitalized patients were discharged alive and 13,559 (64.7%) occurred in public sector.

- Thirty percent (29.5%) of hospitalized cases, i.e. 9,594 demised and 7,232 (75.4%) occurred in public sector facilities.
- Joe Gqabi has the highest case fatality rate (45%) among the hospitalized, followed by Amathole (37.6%), Chris Hani (34.8%) and OR Tambo (34.8%). BC Metro discharged more than 70% of the hospitalized and the lowest discharge rate seen in Joe Gqabi (50.3%).
- Of the 325 currently admitted, 211 (65%) in private and 114 (35%) in public sector. About 258 cases (79.4%) were admitted in the General Ward, i.e. 149 in private and 109 in public sector. Fifty-six (56) cases, 17.2% were in ICU (55 in private sector & 1 in public); 11 cases in High Care (4 in public & 7 in private); 125 cases on oxygen (49 in public & 76 in private) and 40 cases were on ventilation (17 in public and 23 in private sector). Nineteen (19) hospitalizations occurred in the past day from BC Metro (1), Chris Hani (1), NM Metro (12), OR Tambo (2) and Sarah Baartman (3).

## **2.4 Healthcare workers**

- The number of HCWs who tested SARS-Cov-2 positive was 12,077; 1,101 hospitalizations 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**

The highest burden of disease was observed in NM Metro, followed by BC Metro, Sarah Baartman and Joe (i.e., more than 20 cases per 100,000 populations) and are classified as hotspots. BC Metro also reported more than 20 cases per 100,000 populations.

Nine (9) local municipalities or sub-districts have high transmission rate of the SARS-Cov-2 and need more support to reduce possible transmission. This includes East London (BC Metro), Inxuba Yethemba LM (Chris Hani), Walter Sisulu LM (Joe Gqabi), Sub-District A, B & C (NM Metro), and Kouga LM, Makana, and Ndlambe 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, and educate the public about the preventive measures.

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

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

In the past 24 hours, **637 new cases and 43 deaths** were reported. Cumulatively, **203,709 cases and 11,795 deaths** were reported.

	No. of cases	New Cases	Total Cases	%	Deaths	New Deaths		Total Deaths	CFR (%)
						*Newly Reported	**Newly occurred		
Male	80869	306	81175	39,8	4970	20	4	4994	6,2
Female	122184	331	122515	60,1	6782	15	3	6800	5,6
Unknown	19	0	19	0,0	0	0	1	1	5,3
<b>Total</b>	<b>203072</b>	<b>637</b>	<b>203709</b>	<b>100,0</b>	<b>11752</b>	<b>35</b>	<b>8</b>	<b>11795</b>	<b>5,8</b>

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

Six percent (5.8%) of the cases demised, and 6.2% were males and 5.6% were females.

District	Cases	New Cases	Total Cases	Recoveries	Deaths	New Deaths		Total Deaths	CFR (%)	Recovery Rate	Active Cases
						*Newly Reported	**Newly occurred				
Alfred Nzo	8122	11	8133	7584	510	1	0	511	6,3	93,2	38
Amathole	19483	18	19501	18340	1113	0	0	1113	5,7	94,0	48
BC Metro	39754	67	39821	37091	2370	0	2	2372	6,0	93,1	358
Chris Hani	19988	30	20018	18296	1622	0	0	1622	8,1	91,4	100
Joe Gqabi	7940	28	7968	7332	509	0	0	509	6,4	92,0	127
NM Metro	60752	387	61139	55365	3382	31	5	3418	5,5	90,6	2356
OR Tambo	22569	11	22580	21153	1385	1	0	1386	6,1	93,7	41
S Baartman	22637	82	22719	21464	861	2	1	864	3,8	94,5	391
Imported	696	1	697	679	0	0	0	0	0,0	97,4	18
Unspecified	1131	2	1133	1126	0	0	0	0	0,0	99,4	7
<b>E. Cape</b>	<b>203072</b>	<b>637</b>	<b>203709</b>	<b>188430</b>	<b>11752</b>	<b>35</b>	<b>8</b>	<b>11795</b>	<b>5,8</b>	<b>92,5</b>	<b>3484</b>

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

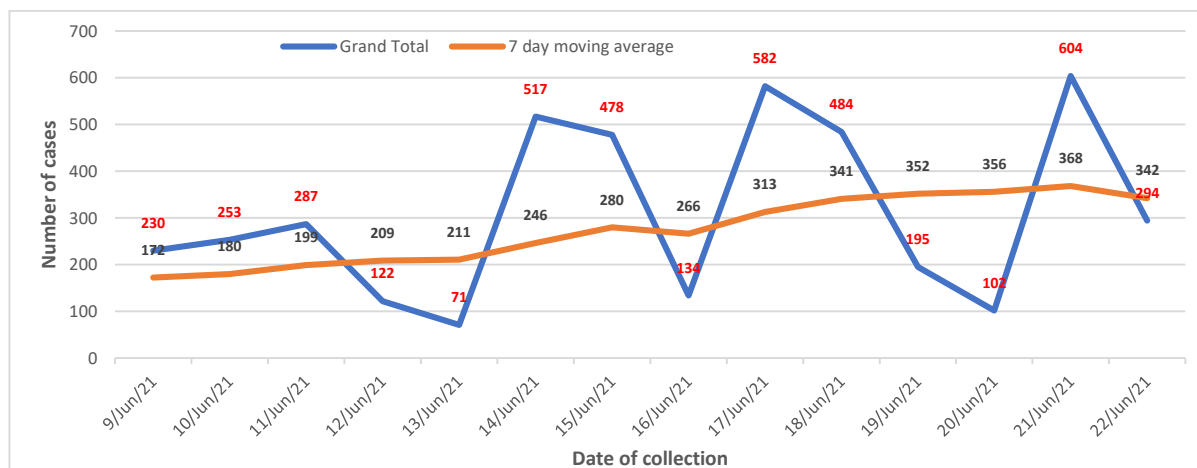
Sixty-one percent (60.8%) of the new cases were from NM Metro (387 cases); Sarah Baartman (82 cases, 12.9%); BC Metro (67 cases, 10.5%); Chris Hani (30 cases, 4.7%); Joe Gqabi (28 cases, 4.4%); Amathole (18 case, 2.8%); Alfred Nzo (11 cases, 1.7%) and OR Tambo (11 cases, 1.7%).

Sixty-eight percent (67.6%) of the active cases were from NM Metro (2356 cases) followed by Sarah Baartman (391 cases, 11.2%); BC Metro (358 cases, 10.3%); Joe Gqabi (127 cases, 3.6%); Chris Hani (100 cases, 2.9%); Amathole (48 cases, 1.4%); OR Tambo (41 cases, 1.2%) and Alfred Nzo (38 cases, 1.1%).

The number of recoveries that were reported from the beginning of the pandemic was 188,430, i.e. 92.5% recovery rate.

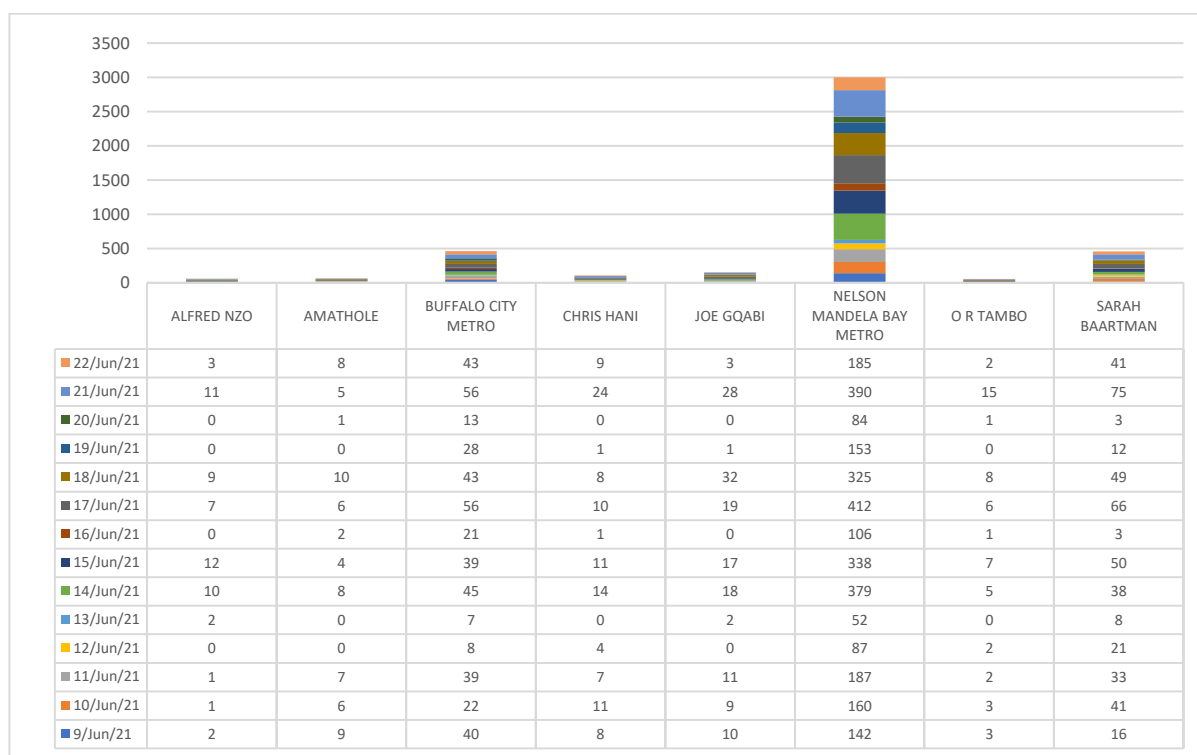
### 3.2. Newly diagnosed cases

The number of new cases has increased by 28.6% from 266 to 342 in the past 7 days.



**Fig. 1. Daily SARS-Cov-2 cases & 7-day moving average by date of collection, as of 23<sup>rd</sup> June 2021**

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



**Fig. 2. Daily SARS-Cov-2 cases by district and date of collection, as of 23<sup>rd</sup> June 2021**

There is a need to improve case detection (including increased testing) and contact tracing and monitoring. Alfred Nzo, Amathole and OR Tambo are currently reporting a gradual increase in the number of the newly diagnosed.

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

### 4.1. Test Results by Laboratory

In the past 24 hours, 9,412 tests were reported, and 56,6% were done in public sector. A cumulative number of over 1 million tests done, 60% in public and 40% in the private sector.

	Private	Public	Total	Percentage (%)	New Tests 20-23 June	Tests 13-19 June
Alfred Nzo	4556	29972	34 528	3,3	152	217
Amathole	9821	75095	84 916	8,2	240	594
BC Metro	62909	104170	167 079	16,2	445	906
Chris Hani	13141	63295	76 436	7,4	254	870
Joe Gqabi	1281	30201	31 482	3,0	200	397
NMB Metro	93335	154640	247 975	24,0	2625	3079
OR Tambo	30253	69941	100 194	9,7	134	261
Sarah Baartman	18788	91187	109 975	10,7	471	1248
Unclassified	179869	0	179 869	17,4	4891	8000
<b>Eastern Cape</b>	<b>413953</b>	<b>618501</b>	<b>1 032 454</b>	<b>100</b>	<b>9412</b>	<b>15572</b>

NM Metro accounts for 24% of the tests, followed by BC Metro (16.2%), Sarah Baartman (10.7%), OR Tambo (9.7%) and 17.4% unclassified (from private sector labs).

### 4.2. Antigen Testing

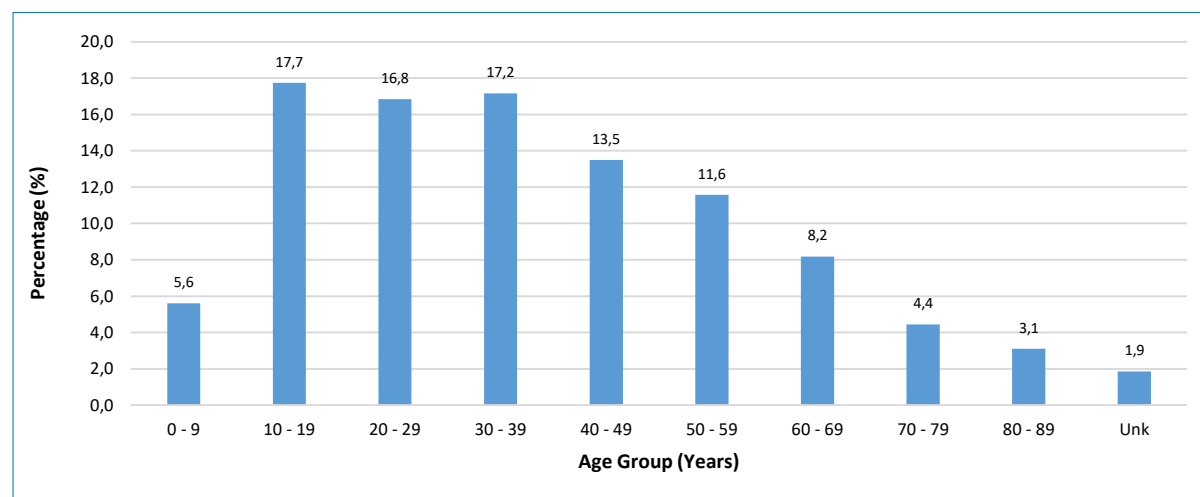
A total of 143,601 specimens tested using Antigen Test Method and 7% tested positive.

	Negative	Positive	Total	Percentage (%)	Positivity Rate (%)
A Nzo	16212	946	17158	11,9	5,5
Amathole	4916	614	5530	3,9	11,1
BC Metro	13579	1635	15214	10,6	10,7
Chris Hani	12840	1197	14037	9,8	8,5
Joe Gqabi	4019	488	4507	3,1	10,8
NM Metro	46498	3442	49940	34,8	6,9
OR Tambo	27532	1375	28907	20,1	4,8
Sarah Baartman	7939	369	8308	5,8	4,4
<b>Total</b>	<b>133535</b>	<b>10066</b>	<b>143601</b>	<b>100,0</b>	<b>7,0</b>

NM Metro accounted for 34.8% of the tests, followed by OR Tambo (20.1%), Alfred Nzo (11.9%) and BC Metro (10.6%). Three (3) districts among those tested using antigen testing reported more than 10% positivity rate, i.e. Amathole, BC Metro, and Joe Gqabi. The lowest positivity rate was observed in Sarah Baartman and OR Tambo.

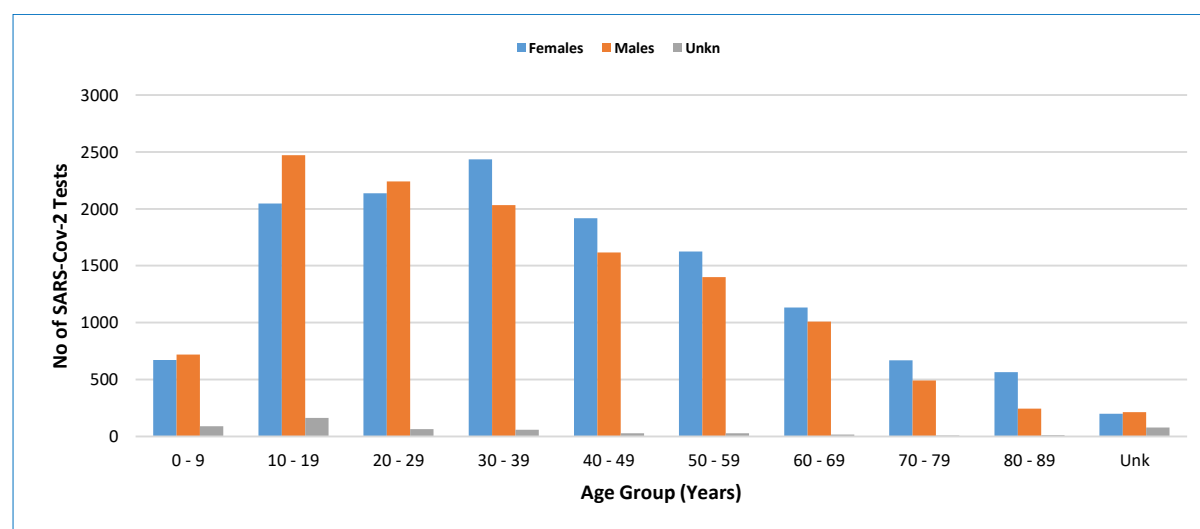
### 4.3. Tests by age group and sex

In the last 31 days, 26,547 tests were done in public sector laboratories. Fifty-nine percent (59.1%) of the tests were among the 20 to 59 year's age group. Forty-one percent (39.1%) 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 22<sup>nd</sup> June 2021**

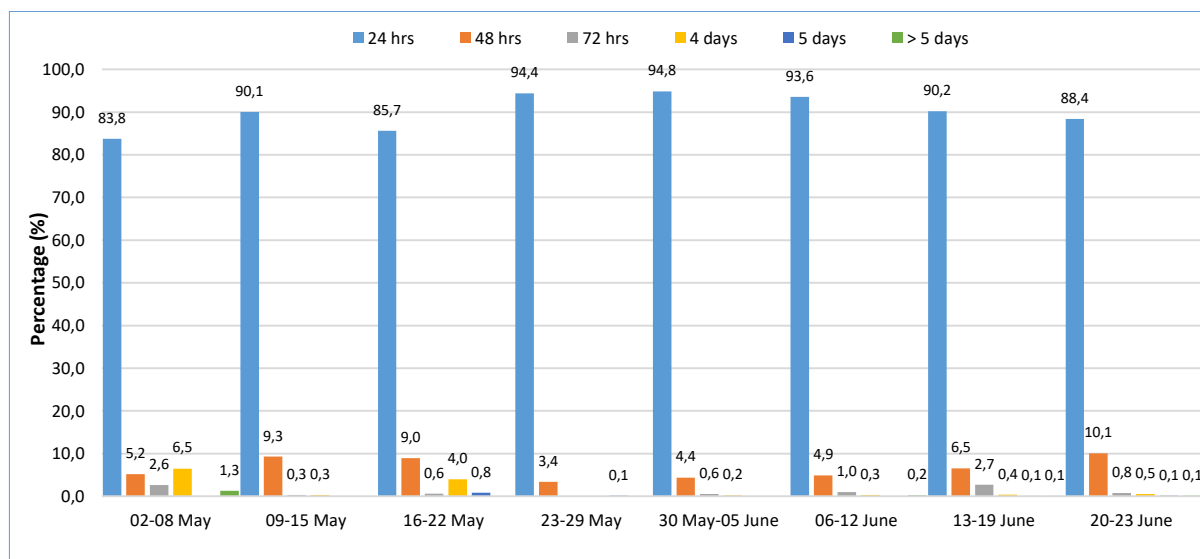
Only 1.9% of the tests did not have information on the age of the person.



**Fig. 4. No. of SARS-Cov-2 public sector tests by age group and gender, as of 22<sup>nd</sup> June 2021**

More than half of all the tests (50.8%), which were done in the last 31 days, were predominantly among the female population. Only 47.2% of the tests were among the male population and 2% 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.

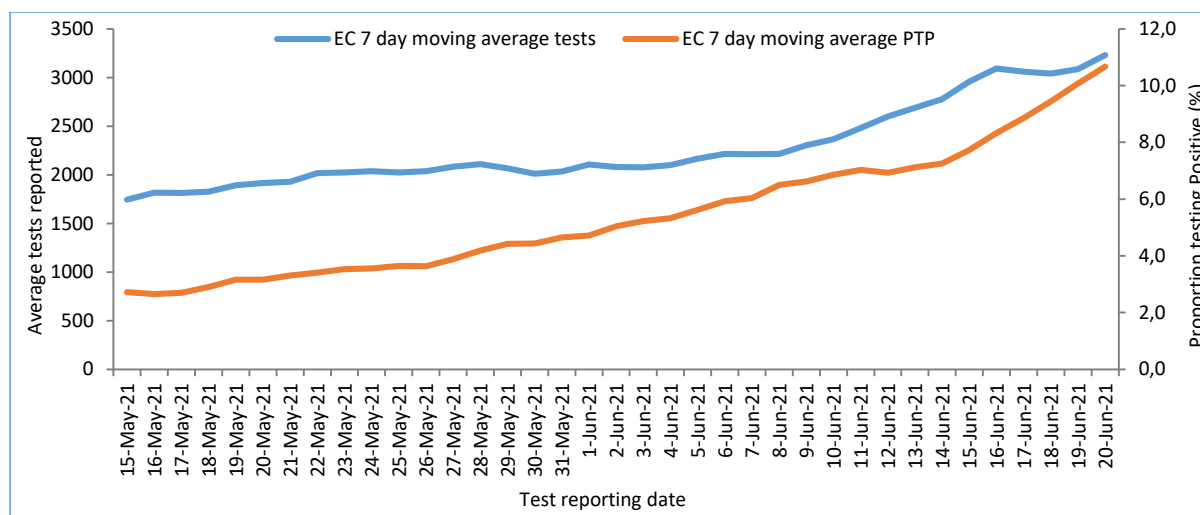
#### 4.4. Turnaround Time



**Fig. 5. Turnaround time for SARS-Cov-2 positive results by week as of 23<sup>rd</sup> June 2021**

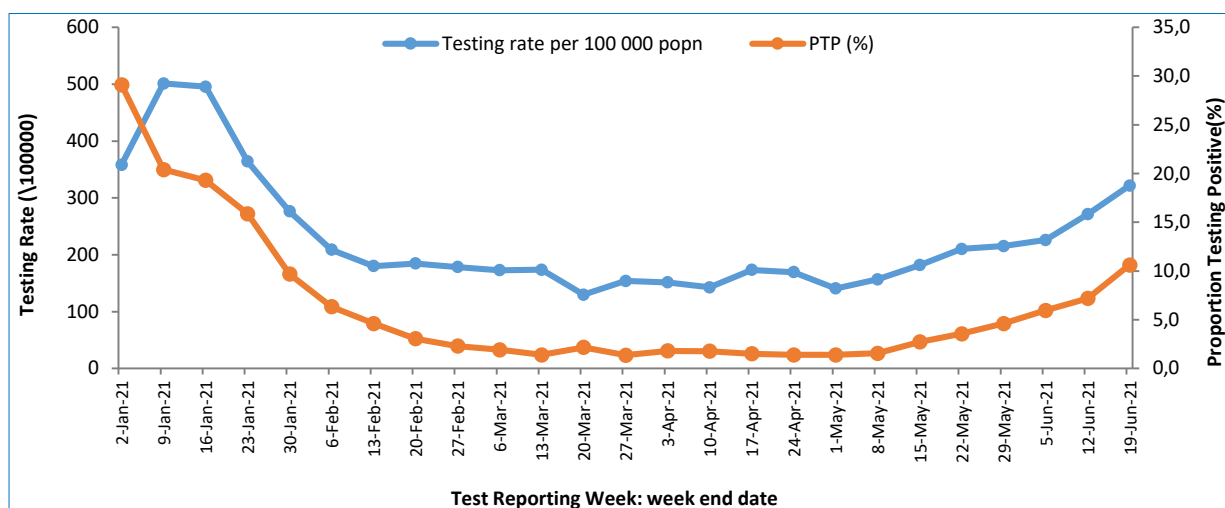
Results that were available within 24 hours has decreased by 2% from 90.2% in the previous week to 88.4% in the current week. Results that were available within 48 hours increased by 1.9% from 96.7% in the previous week, to 98.5% in the current week.

#### 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 20<sup>th</sup> June 2021**

In the past 7 days, there is a 16,3% increase in the number of SARS-Cov-2 tests from 2,778 on the 14<sup>th</sup> to 3,232 on the 20<sup>th</sup> of June 2021. The positivity rate has increased by 46,6% from 7,3% to 10,7% during the same period.

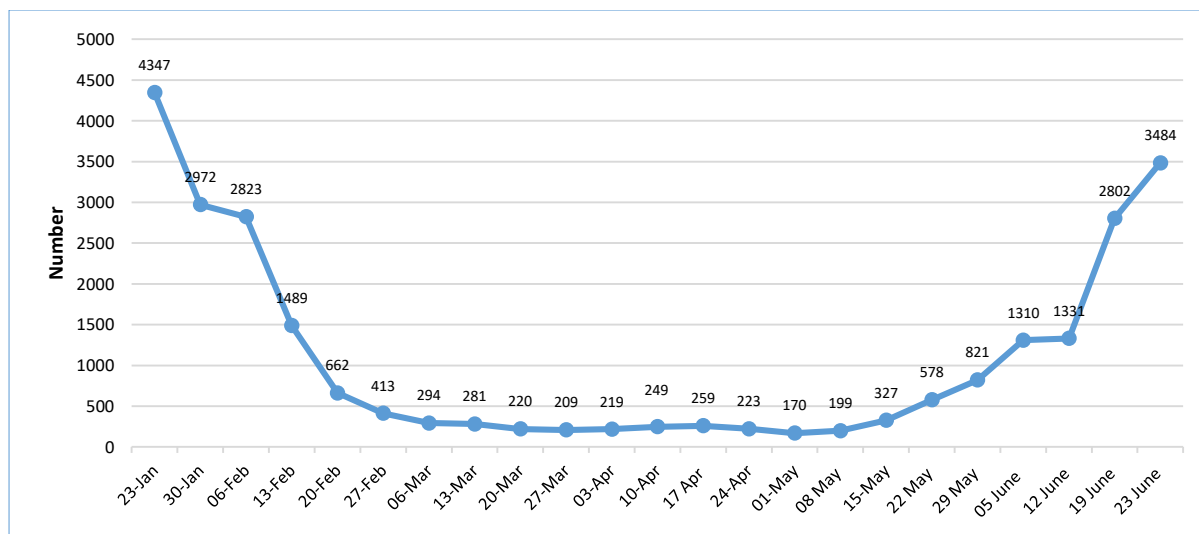


**Fig. 7. Testing Rate for SARS-Cov-2 by week for past 24 weeks, as of 20<sup>th</sup> June 2021**

The testing rate for SARS-Cov-2 has increased by 18.8% from 271 tests per 100,000 on the 12<sup>th</sup> June to 322 tests per 100,000 on the 19<sup>th</sup> June. The testing rate has increased to more than 200 tests per 100,000 per week in the past 5 weeks.

## 5. ACTIVE CASES, INCIDENCE & POSITIVITY RATE

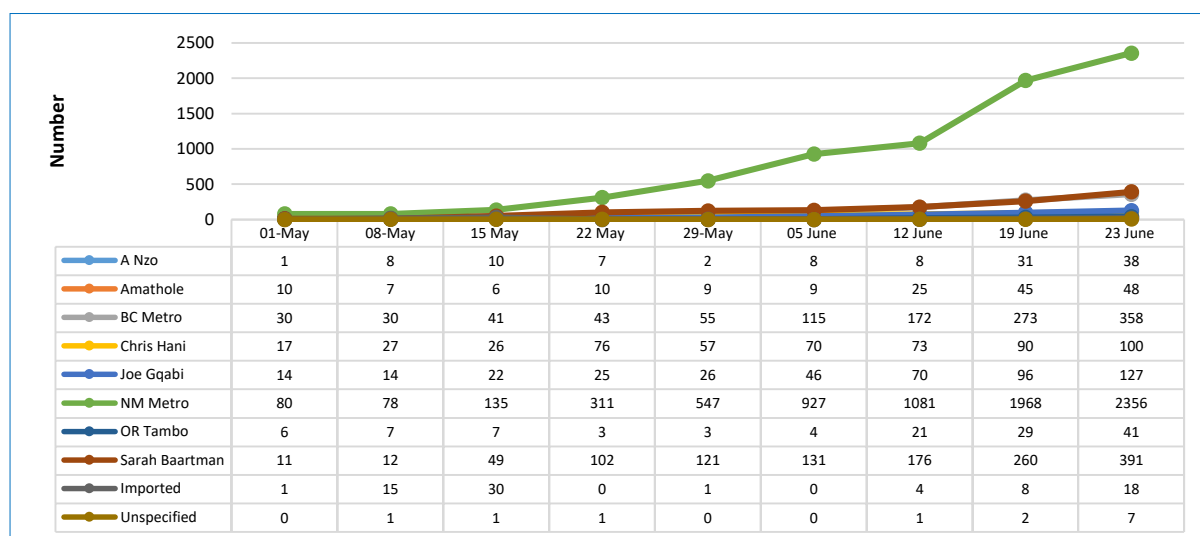
### 5.1. Active SARS-Cov-2 Cases



**Fig. 8. Number of active SARS-Cov-2 cases by week, as of 23<sup>rd</sup> June 2021**

The number of active cases has increased by 24.3% from 2,802 on the 19<sup>th</sup> to 3,484 on the 23<sup>rd</sup> of June. In the past 24 hours, the number of active cases has increased by 17.7% from 2,961 to 3,484.





**Fig. 9. Number of weekly Active SARS-Cov-2 cases by district, as of 23<sup>rd</sup> June 2021**

Nearly all the districts had a significant increase in the number of active cases including those districts which had low transmission rates in the previous weeks.

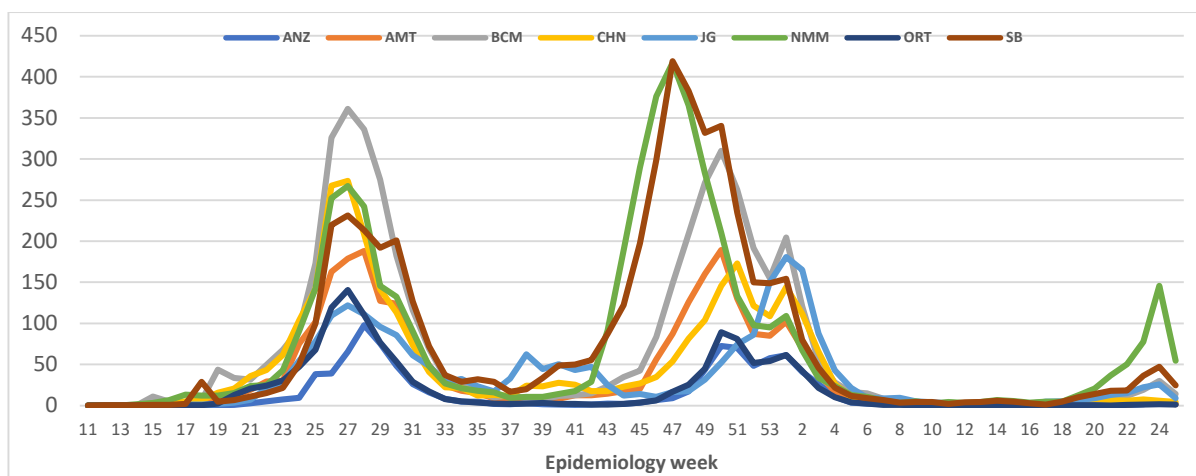
More than half of the active cases were from NM Metro, followed by BC Metro, Sarah Baartman, and Joe Gqabi. These four districts are on the response phase. These districts continue to show a rapid increase in the number of new and active cases in the province.

## 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	34 528	8133	38	4,6	23,6
Amathole	798067	84 916	19501	48	6,0	23,0
BC Metro	798798	167 079	39821	358	44,8	23,8
Chris Hani	733743	76 436	20018	100	13,6	26,2
Joe Gqabi	343075	31 482	7968	127	37,0	25,3
NM Metro	1210803	247 975	61139	2356	194,6	24,7
OR Tambo	1520922	100 194	22580	41	2,7	22,5
S Baartman	480223	109 975	22719	391	81,4	20,7
Imported		0	697	18	0,0	0,0
Unspecified		179 869	1133	7	0,0	0,6
<b>E. Cape</b>	<b>6713457</b>	<b>1 032 454</b>	<b>203709</b>	<b>3484</b>	<b>51,9</b>	<b>19,7</b>

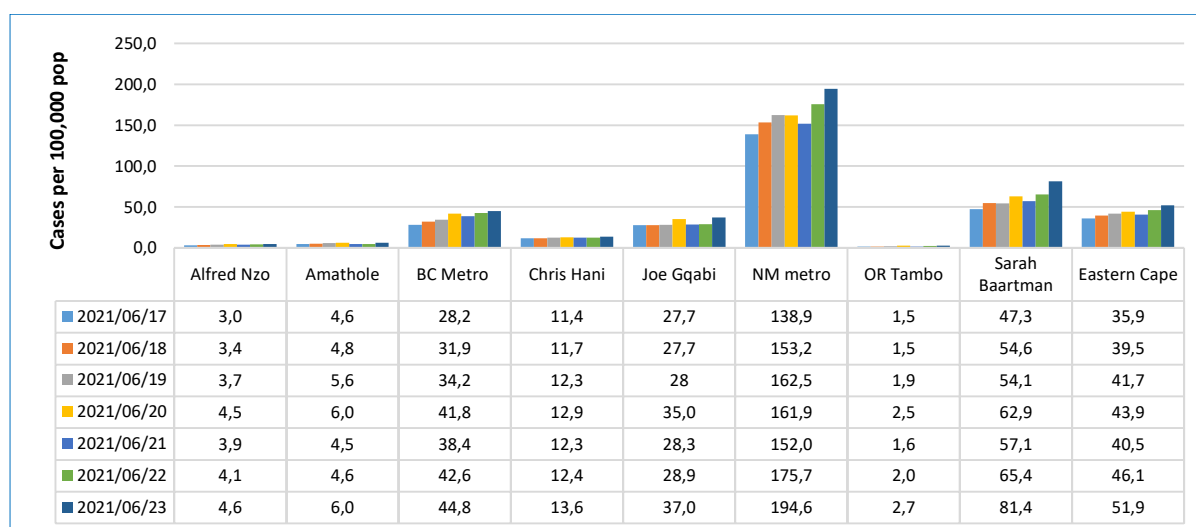
In the past 24 hours, the incidence of SARS-Cov-2 was 51.9 cases per 100,000 populations. Four (4) districts reported more than 20 cases per 100,000, i.e., BC Metro, Joe Gqabi, NM Metro and Sarah Baartman. Chris Hani has reverted from the response to a control phase. Alfred Nzo and OR Tambo reported less than 5 cases per 100,000 populations. Both NM Metro and Sarah Baartman are hotspots and had more than 20 cases per 100,000 populations for more than 14 days.

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



**Fig. 10. Incidence of SARS-Cov-2 cases by epidemiological week, as of 23<sup>rd</sup> June 2021**

After the second wave, the NM Metro and Sarah Baartman have shown an increase in the incidence of SARS-Cov-2 cases. This was followed by BC Metro and Joe Gqabi. A rapid increase in incidence occurred from week 19 and continue to increase until week 24.

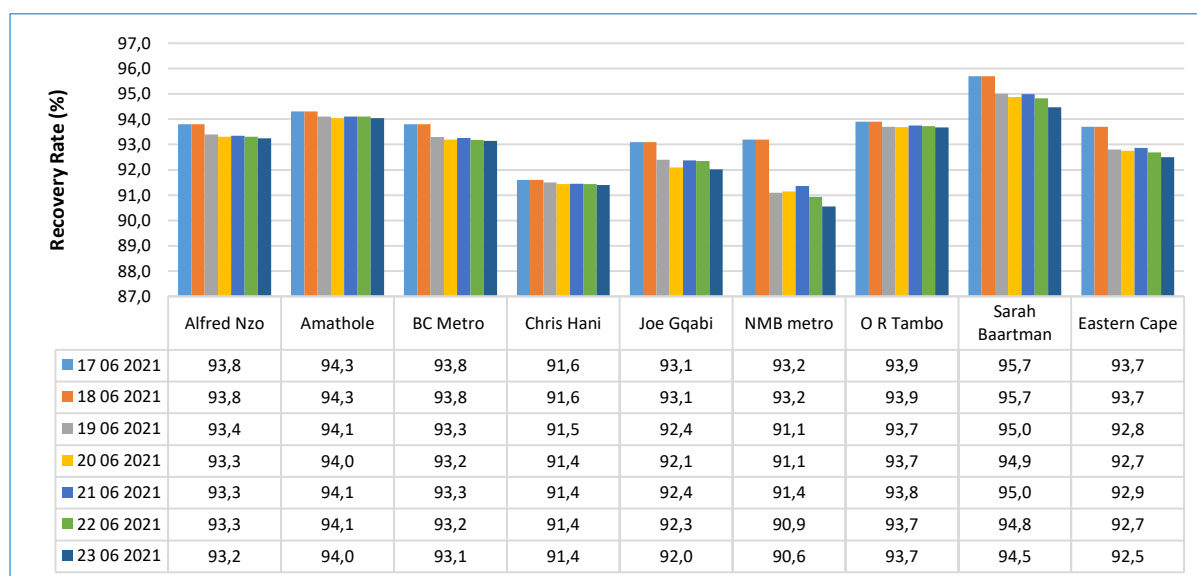


**Fig. 11. Active SARS-Cov-2 cases (per 100,000 pop) by district, as of 23 June 2021**

In the past 7 days, the incidence has increased by 44.6%, i.e., from 35.9 cases to 51.9 cases per 100,000 populations. Nearly all the districts appear to be showing an increase in the number of cases per 100,000 population. However, two districts have less than 5 cases per 100,000 populations, i.e., Alfred Nzo and OR Tambo. Four (4) reported more than 20 cases per 100,000 populations, i.e. BC Metro, Joe Gqabi, NM Metro and Sarah Baartman.

## 5.4. Recovery Rate (%)

The provincial recovery rate remained above 90% over the past 2 months. However, it has shown a decrease during the same period.

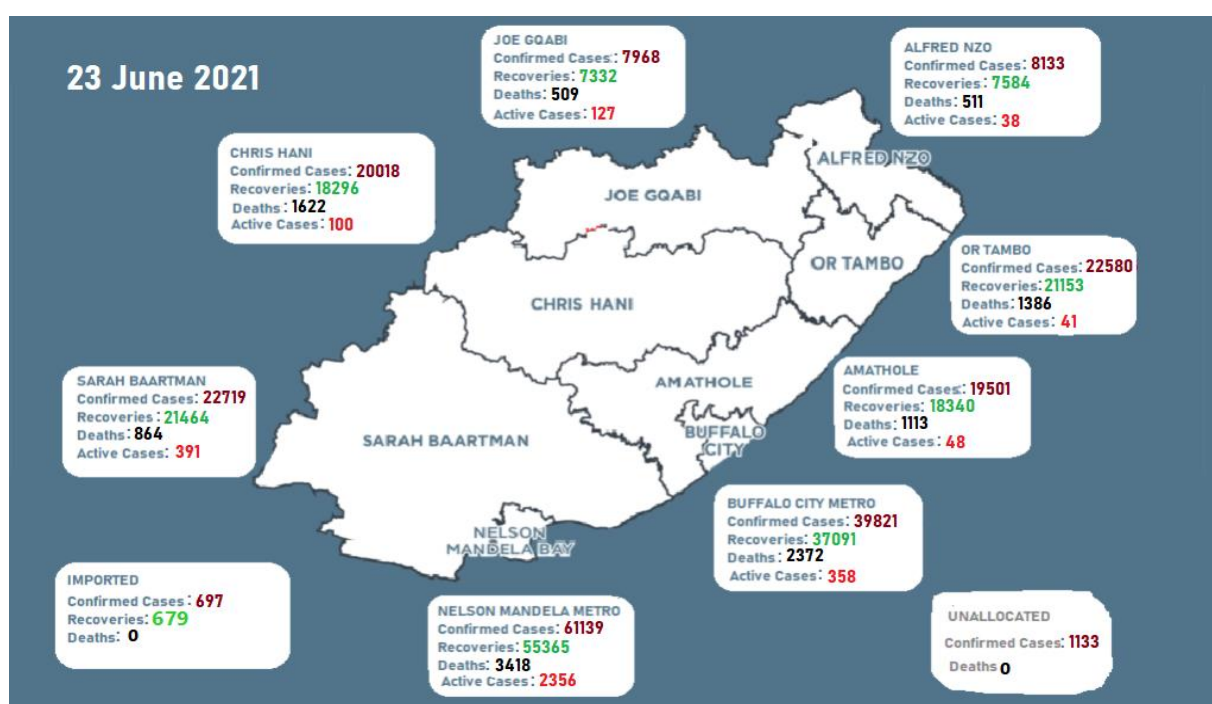


**Fig. 12. SARS-Cov-2 Recovery Rate (%) by districts, as of 23 June 2021 (N=188,430)**

As the number of new and active cases increases, the recovery rate also decreases. The recovery rate has remained unchanged for the past 7 days.

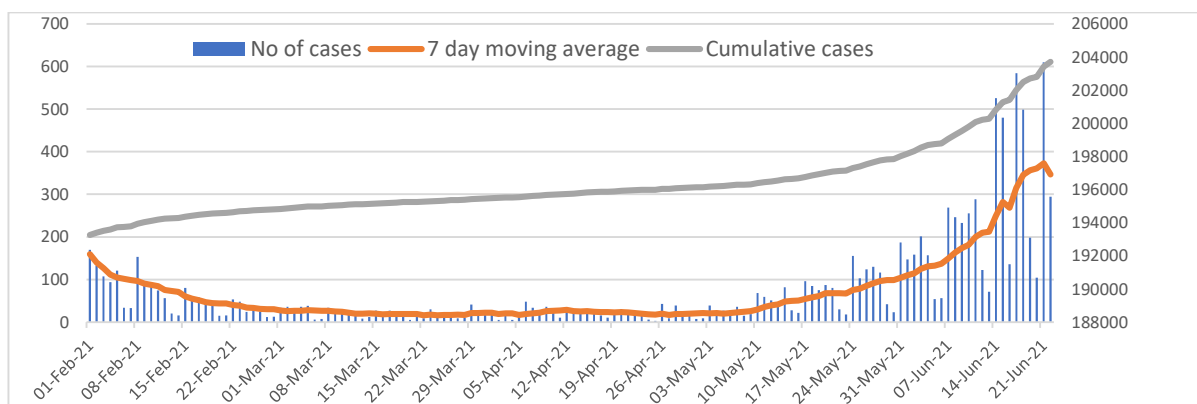
## 5.5. Mapping of active cases, recoveries, and deaths

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 23 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 23<sup>rd</sup> June 2021**

After a long period of low transmission rates, there was a rapid increase in the number of new cases until to date.

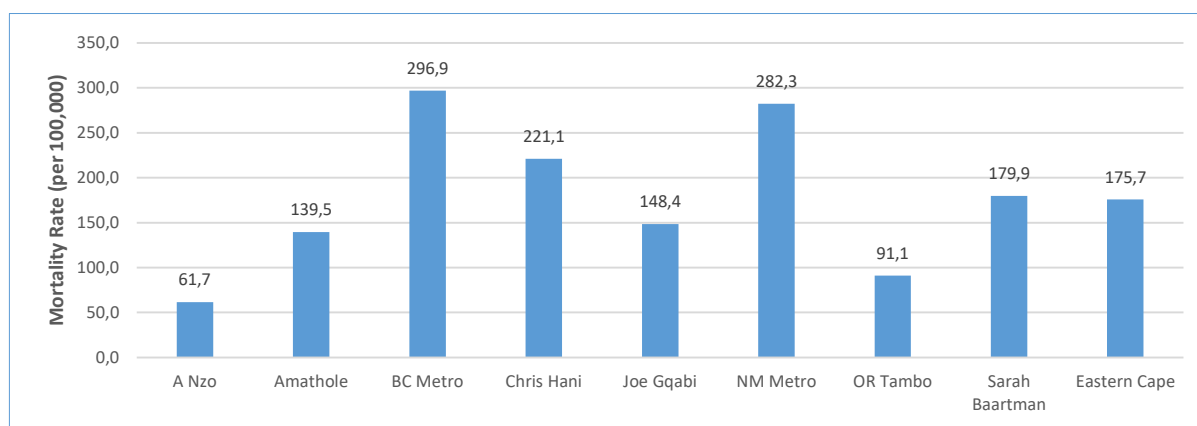
## 7. SARS-Cov-2 RELATED MORTALITY

### 7.1. SARS-Cov-2 related cases and 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	8,8	4,4	15,4
Jul-20	50291	2035	17,3	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	2,4	3,3	4,3
Nov-20	34232	1710	14,5	5,0	25,5
Dec-20	42757	2777	23,5	6,5	41,4
Jan-21	18168	1918	16,3	10,6	28,6
Feb-21	1705	312	2,6	18,3	4,6
Mar-21	701	107	0,9	15,3	1,6
Apr-21	625	56	0,5	9,0	0,8
May-21	1898	90	0,8	4,7	1,3
Jun-21	5693	120	1,0	2,1	1,8
Unknown	0	145	1,2	0,0	2,2
<b>Total</b>	<b>203709</b>	<b>11795</b>	<b>100,0</b>	<b>5,8</b>	<b>175,7</b>

Twenty-four percent (23.5%) of the deaths occurred in December; 16.3% in January; 2.6% in February; 0.9% in March; 0.5% in April; 0.8% in May, and 1% in June. The Case Fatality Rate was 6.5% in December, 10.6% in January, 18.3% in February, 15.3% in March, 9% in April, 4.7% in May and 2.1% in June.

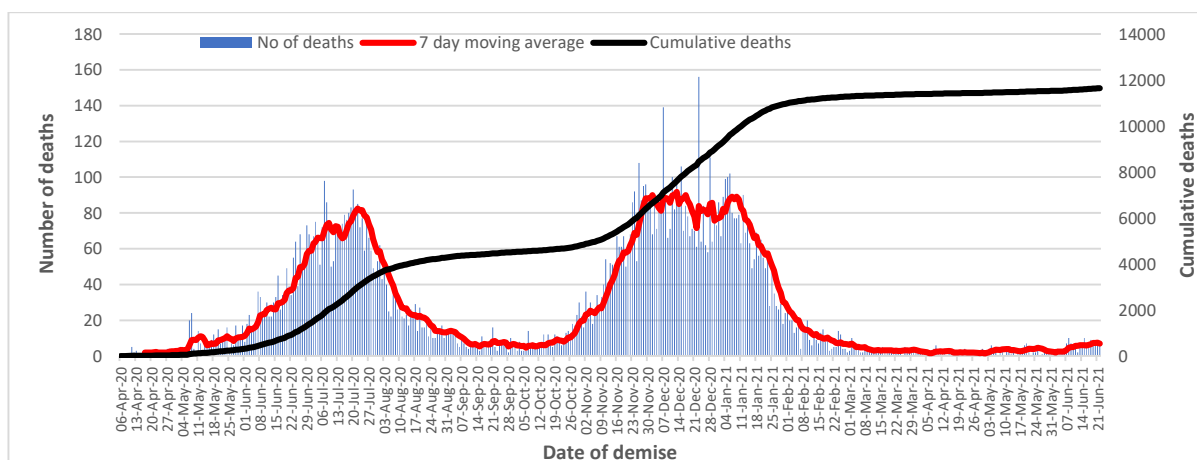


**Fig. 15. SARS-Cov-2 related mortality per 100,000 by district, as of 23 June 2021**

The provincial mortality rate was 175,7 deaths per 100,000 populations. BC Metro reported the highest mortality rate at 296,9 per 100,000 followed by NM Metro (282,3 per 100,000); Chris Hani (221,1 per 100,000) and Sarah Baartman (179,9 per 100,000).

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

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

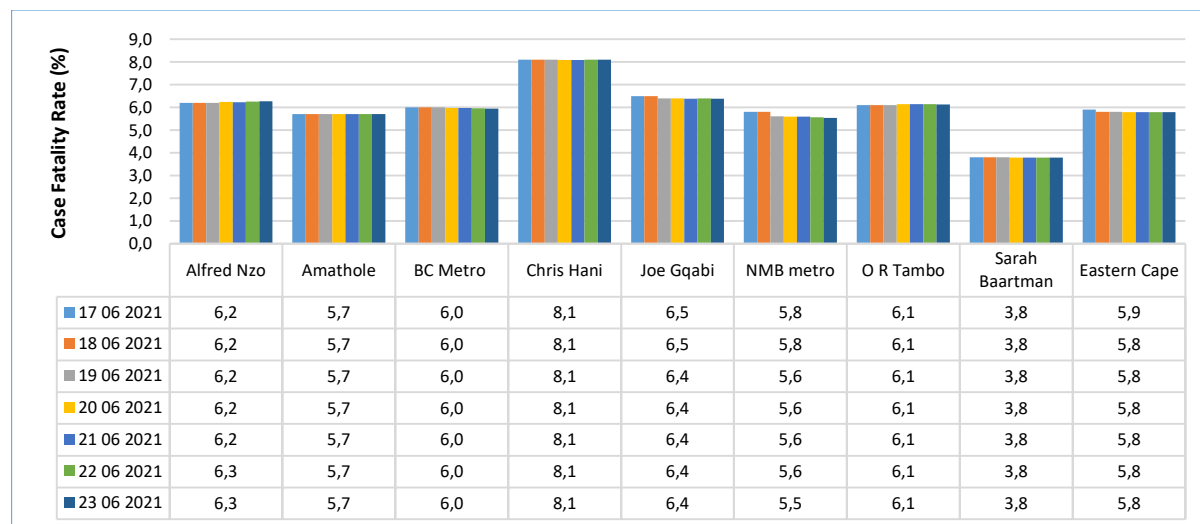


**Fig. 16. Daily and cum. SARS-Cov-2 related deaths by date of demise, as of 23 June 2021**

The second wave appears to have been severe compared to the first wave, i.e., there were more cases and deaths compared to the first wave. And the duration of the second wave was longer than the first wave. The number of deaths appear to be gradually increasing, especially in June with the deaths. There is a need to continue to monitor the deaths and ensure that there is effective case management.

## 7.5. Case Fatality Rate by district

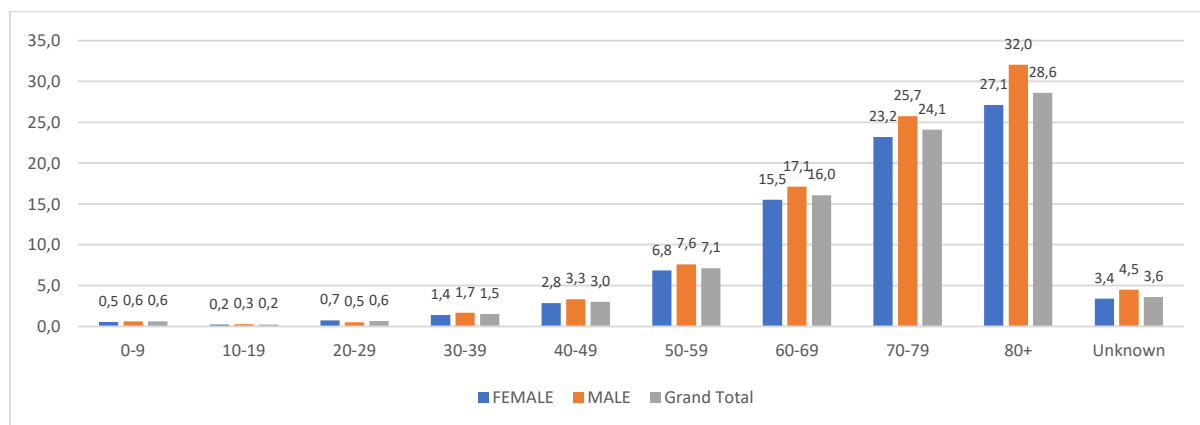
Chris Hani reported 8.1% of the SARS-Cov-2 deaths, followed by Joe Gqabi (6.4%), Alfred Nzo (6.3%), OR Tambo (6.1%), BC Metro (6%), Amathole (5.7%), NM Metro (5.5%) and the lowest being Sarah Baartman (3.8%).



**Fig. 17. SARS-Cov-2 Case Fatality Rate (%) by district, as of 23 June 2021 (N=11,795)**

The case fatality rate in the province dropped in the past 7 days, including 2 districts. The case fatality rate appears to be increasing during June as the number of cases increases.

## 7.4. Case Fatality Rate by age group

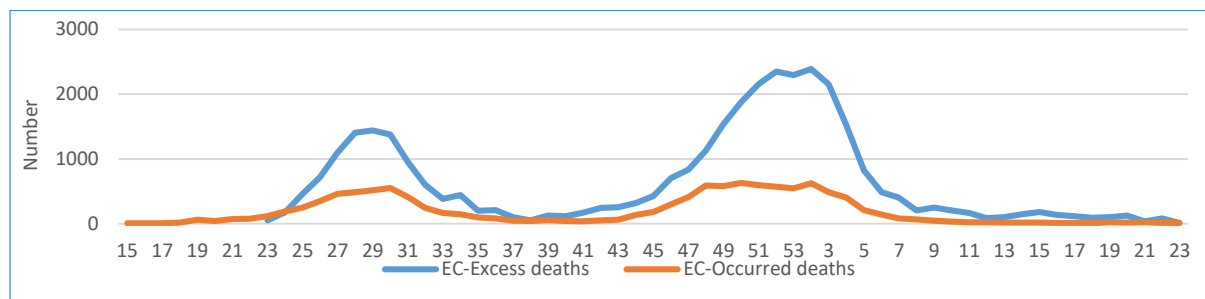


**Fig. 18. SARS-Cov-2 related Case Fatality Rate (%) by age group, as of 23 June 2021**

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.

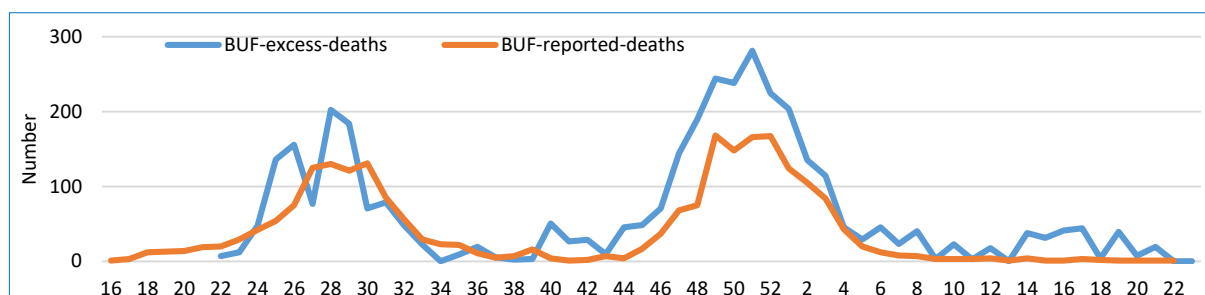
## 7.5. Excess versus reported deaths

Data is from the Medical Research Council (as of the 05<sup>th</sup> June) and ECDOH (09<sup>th</sup> June).

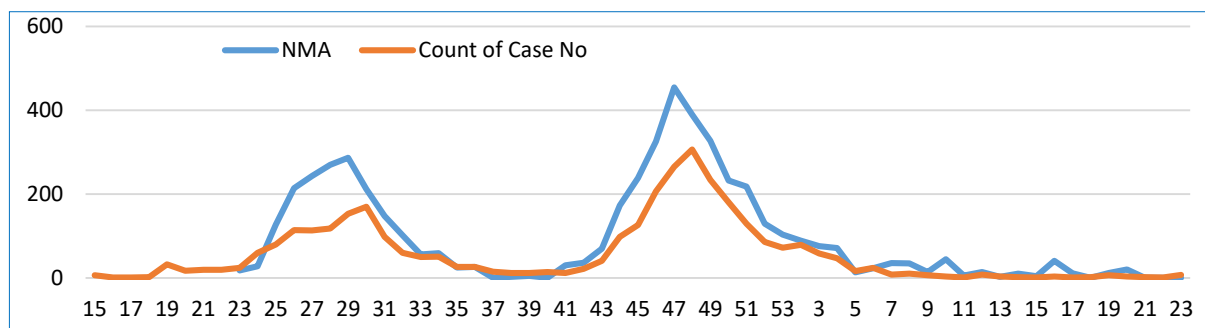


**Fig. 19. Excess & reported Covid-19 deaths by week, as of 10<sup>th</sup> June 2021 (ECDOH, MRC<sup>1</sup>)**

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 vs Excess deaths by week in BC Metro, as of the 10 June 2021**



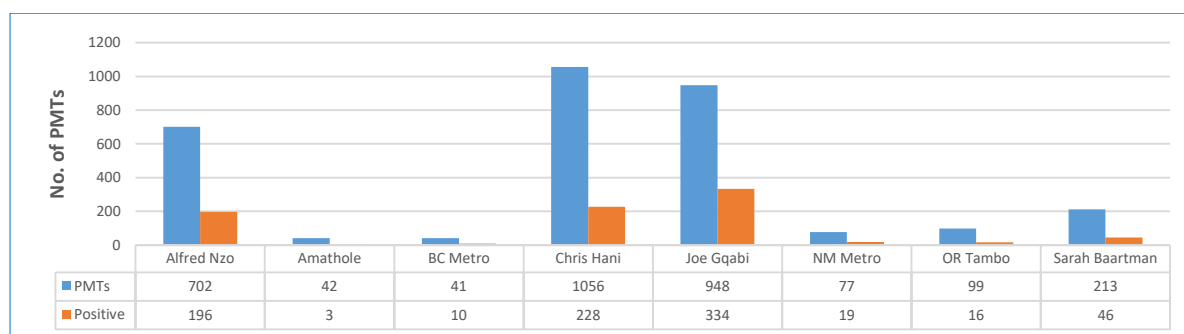
**Fig. 21. Reported SARS-Cov-2 vs Excess deaths by week in NM Metro, as of the 10 June 2021**

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 05<sup>th</sup> June 2021

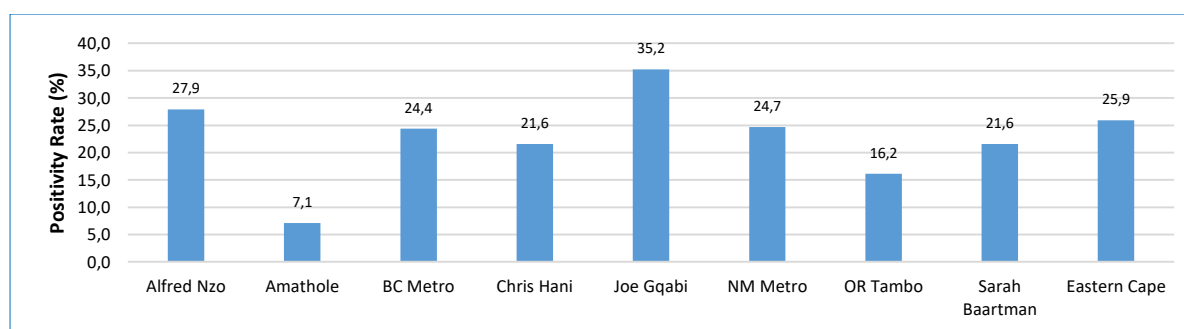
## 7.6. Post-mortem tests (PMTs) and results

In the past 48 hours, the number of PMTs has increased to 3,178. The number of positive cases has increased in the past 48 hours, i.e. 852.



**Fig. 22. Number of Post-Mortem Tests & Positive Cases by district, as of 23 June 2021**

Of all the PMTs, 2,706 (85.1%) were from Alfred Nzo, Chris Hani, and Joe Gqabi. Similarly, 758 (89%) of the 852 confirmed cases were from the 3 districts.



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

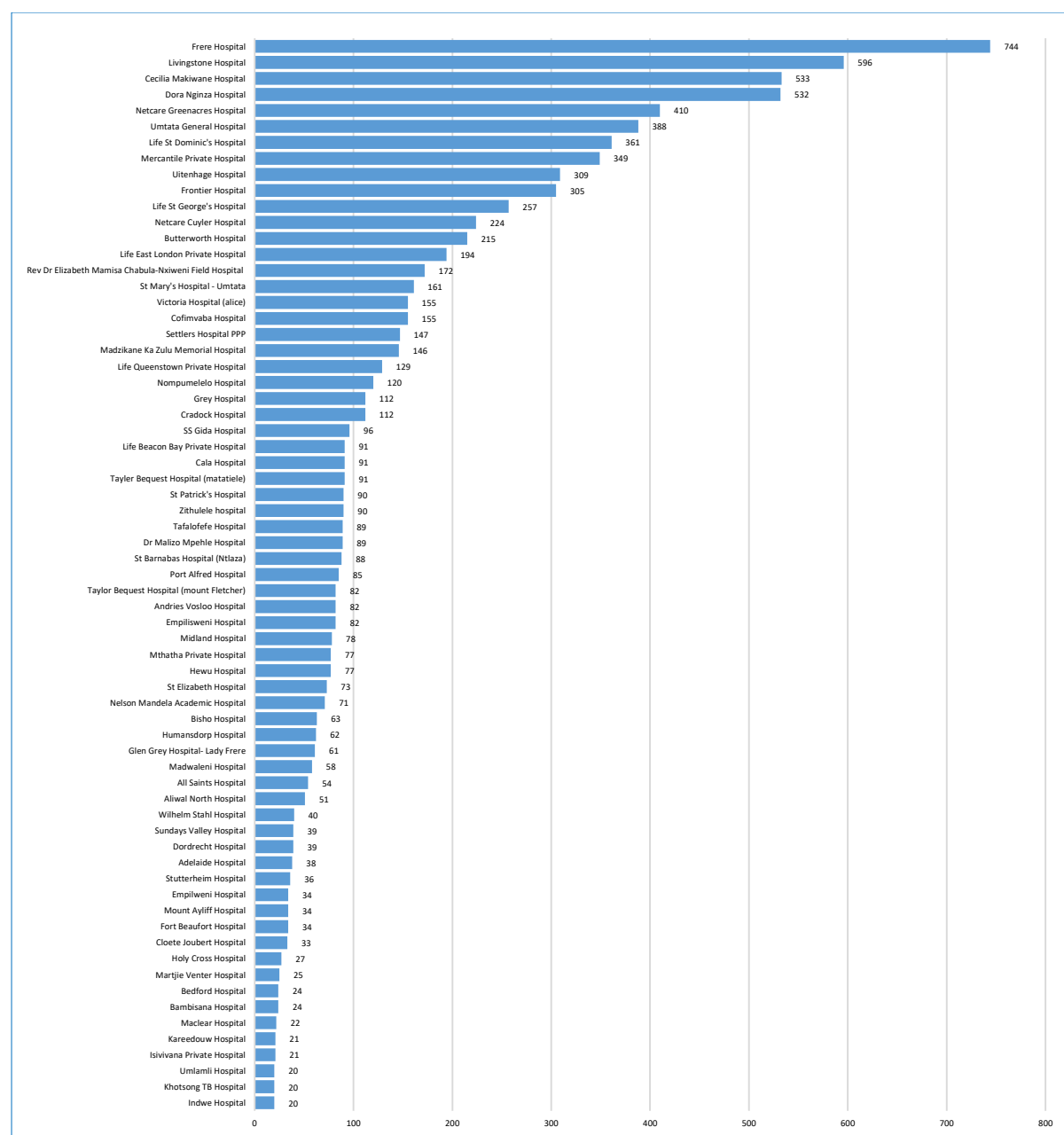
Twenty-six percent (25.9%) of the PMTs tested positive. Joe Gqabi reported the highest positivity rate, followed by Alfred Nzo, NM Metro, BC Metro, Chris Hani and Sarah Baartman.

	30 May-05 June		06-12 June		13-19 June		20-21 June		30 May - 21 June	
	PMTs	Positive	PMTs	Positive	PMTs	Positive	PMTs	Positive	PMTs	Positive
Alfred Nzo	20	1	28	1	20	6	11	1	79	9
Amathole	3		4		1		2		10	0
BC Metro	0		1		3		2		6	0
Chris Hani	41	1	38	2	33	2	20	3	132	8
Joe Gqabi	22	2	25	4	31	1	9		87	7
NM Metro	1		2				14	1	17	1
OR Tambo	3		9		6		1		19	0
Sarah Baartman	3		7		9	1	3	1	22	2
<b>Eastern Cape</b>	<b>93</b>	<b>4</b>	<b>114</b>	<b>7</b>	<b>103</b>	<b>10</b>	<b>62</b>	<b>6</b>	<b>372</b>	<b>27</b>

In the 23 days, 372 PMTs were conducted, and 27 tested positive for SARS-Cov-2. Alfred Nzo, Chris Hani, and Joe Gqabi accounted for 298 PMTs (80.1%). All the confirmed cases were from Alfred Nzo, Chris Hani, Joe Gqabi, NM Metro and Sarah Baartman districts. There was an improvement in the number of PMTs in OR Tambo.



## 7.6. Deaths by health facilities



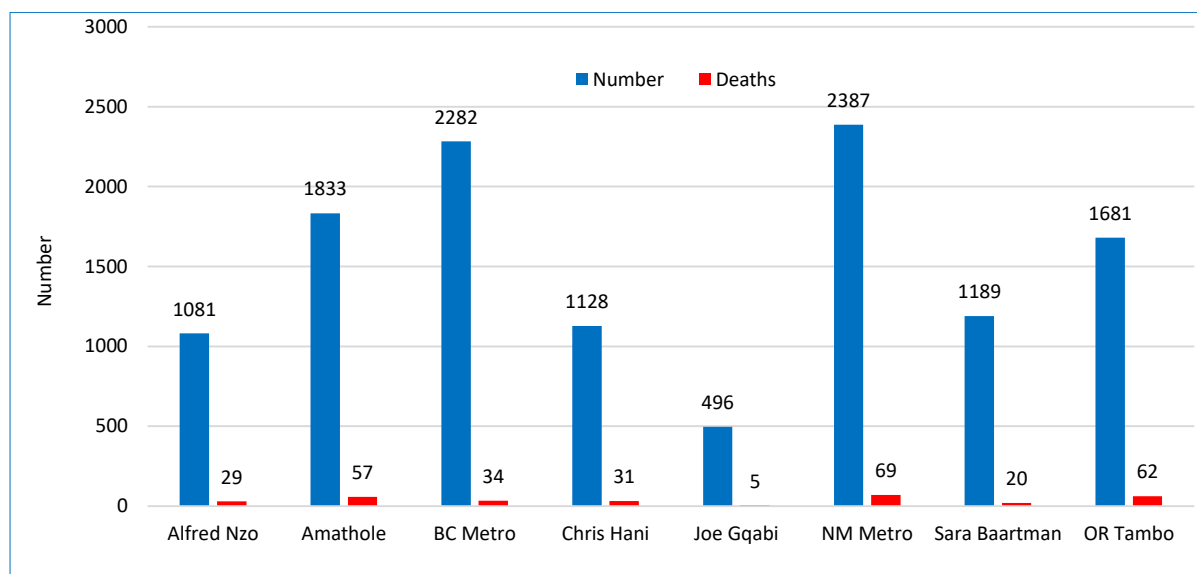
**Fig. 24. Number of SARS-Cov-2 related deaths by the facility, as of 11<sup>th</sup> June 2021**

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.

## 8. HEALTHCARE WORKERS

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

The number of HCWs who tested SARS-Cov-2 positive was 12,077 and 307 persons demised.



**Fig. 25. SARS-Cov-2 positive Healthcare Workers, as of 09<sup>th</sup> June 2021 (N = 12,077)**

The number of healthcare workers who tested positive for SARS-Cov-2 in Nelson Mandela Metro was 2,387 (69 deaths), Buffalo City Metro 2,282 (34 deaths), Amathole 1,833 (57 deaths), OR Tambo 1,681 (62 deaths), Sarah Baartman 1189 (20 deaths), Chris Hani 1,128 (31 deaths) and Alfred Nzo 1,081 cases (29 deaths).

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

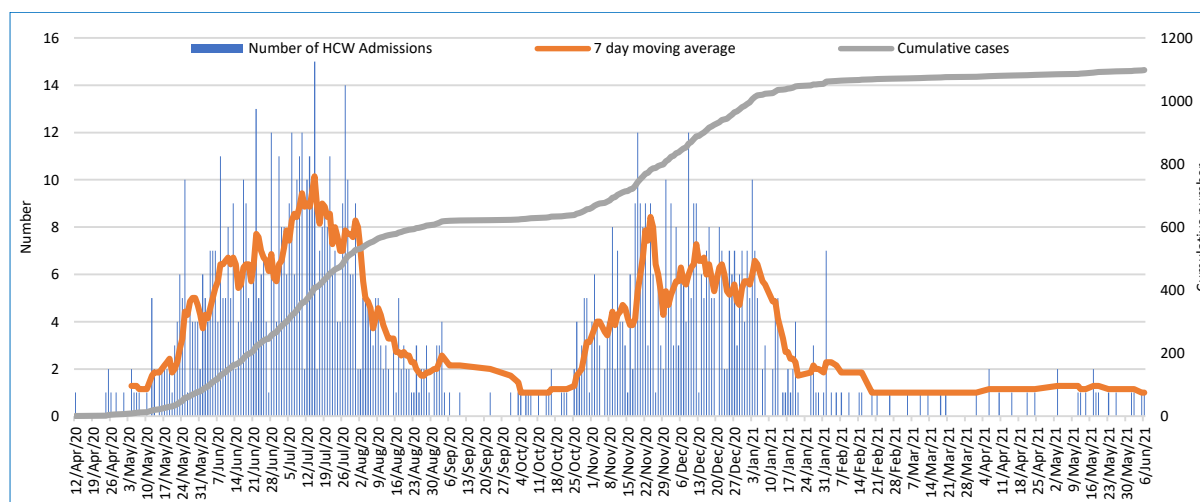
The table below provides the number of selected healthcare professionals employed by the State and SARS-Cov-2 cases by job categories, and the positivity rate of that job category.

Table 6. SARS-Cov-2 cases by selected job categories, as of 09 <sup>th</sup> June 2021			
	Population	Cases	Positivity Rate (%)
Admin	12434	816	6,6
Allied Professionals	3041	235	7,7
Doctors & Clinical Assoc	2369	460	19,4
Nurses	20650	5028	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.

### 8.3. Admissions of healthcare workers

The cumulative number of health workers admitted was 1,101. From January to date, 117 health workers were hospitalized, i.e., 71 in January, 16 on February, 5 in March, 7 in April, and 11 in May and 7 in June. The last admission was on the 15<sup>th</sup> of June 2021 in NM Metro.

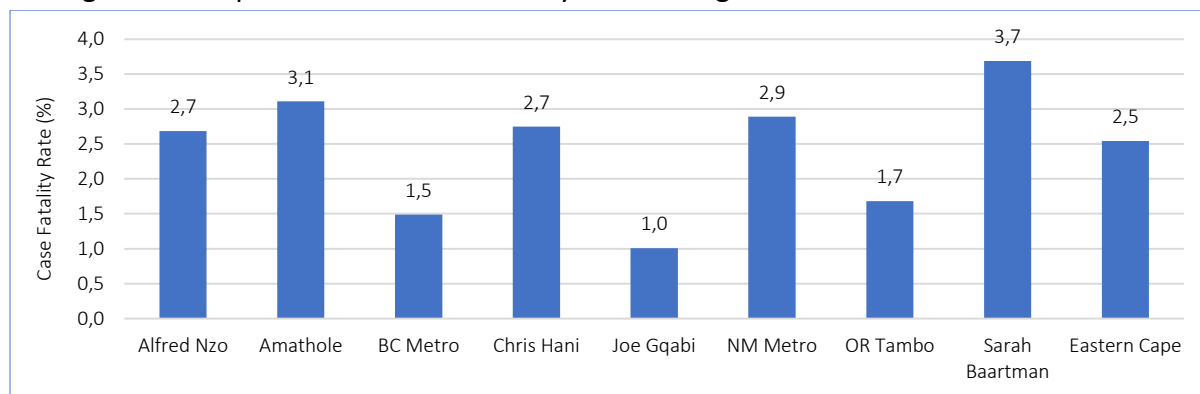


**Fig. 26. No. of SARS-Cov-2 related admissions of healthcare workers, as of 11<sup>h</sup> June 2021**

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.

### 8.4. 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 09<sup>th</sup> June 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.

## 9. Hospitalization and outcomes

### 9.1. Admissions and outcomes

The cumulative number of hospitalizations was 32,484, i.e. 22,472 (69.2%) in public and 10,012 (30.8%) in private. Sixty-five percent (64.5%), i.e. 20,955 of hospitalized patients were discharged alive and 13,559 (64.7%) occurred in public sector. Thirty percent (29.5%) of hospitalized cases, i.e. 9,594 demised and 7,232 (75.4%) occurred in public sector facilities.

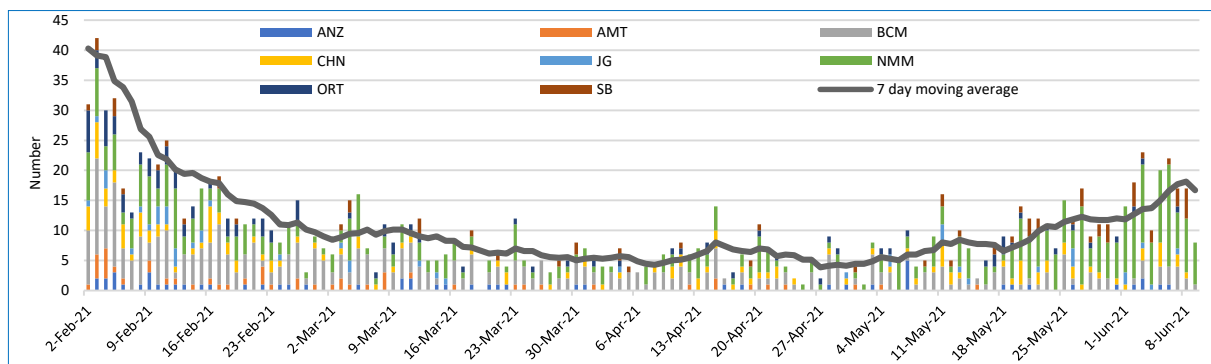
Districts	Public	Private	Total	Died	Case Fatality Rate (%)	Discharged to date	Discharged (%)
Alfred Nzo	1688	108	1796	424	23,6	1102	61,4
Amathole	2371	0	2371	892	37,6	1427	60,2
BC Metro	4280	3223	7503	2103	28,0	5314	70,8
Chris Hani	2593	755	3348	1165	34,8	2088	62,4
Joe Gqabi	737	0	737	332	45,0	371	50,3
NM Metro	6768	4846	11614	2958	25,5	7508	64,6
O R Tambo	2371	911	3282	1141	34,8	2041	62,2
Sarah Baartman	1664	169	1833	579	31,6	1104	60,2
<b>Eastern Cape</b>	<b>22472</b>	<b>10012</b>	<b>32484</b>	<b>9594</b>	<b>29,5</b>	<b>20955</b>	<b>64,5</b>

Joe Gqabi has the highest case fatality rate (45%) among the hospitalized, followed by Amathole (37.6%), Chris Hani (34.8%) and OR Tambo (34.8%). BC Metro discharged more than 70% of the hospitalized and the lowest discharge rate seen in Joe Gqabi (50.3%).

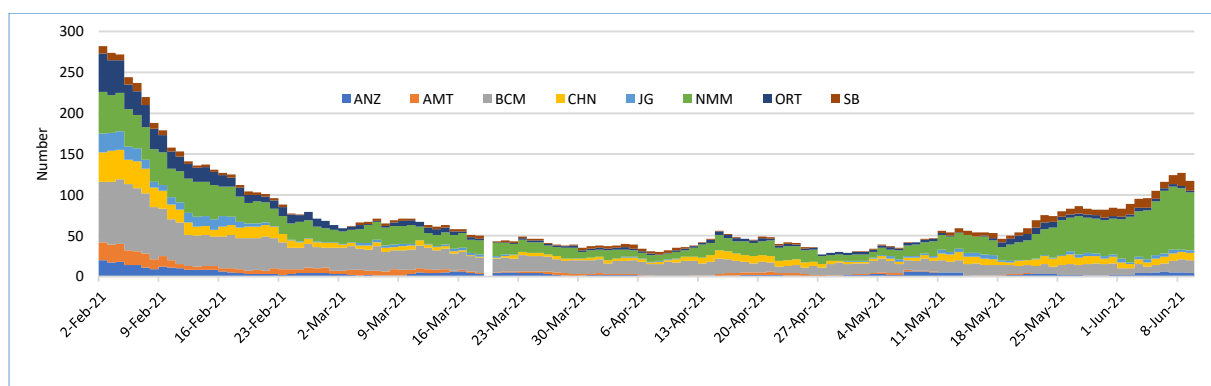
Eastern Cape	Public	Private	Total
Cumulative Admissions	22472	10012	32484
Died	7232	2362	9594
Discharged Alive	13559	7396	20955
Transferred Out	1557	38	1595
Currently Admitted	114	211	325
In ICU	1	55	56
In High Care	4	7	11
In General	109	149	258
On Oxygen	49	76	125
Ventilated	17	23	40

Of the 325 currently admitted, 211 (65%) in private and 114 (35%) in public sector. About 258 cases (79.4%) were admitted in the General Ward, i.e. 149 in private and 109 in public sector. Fifty-six (56) cases, 17.2% were in ICU (55 in private sector & 1 in public); 11 cases in High Care (4 in public & 7 in private); 125 cases on oxygen (49 in public & 76 in private) and 40 cases were on ventilation (17 in public and 23 in private sector). Nineteen (19) hospitalizations occurred in the past day from BC Metro (1), Chris Hani (1), NM Metro (12), OR Tambo (2) and Sarah Baartman (3).

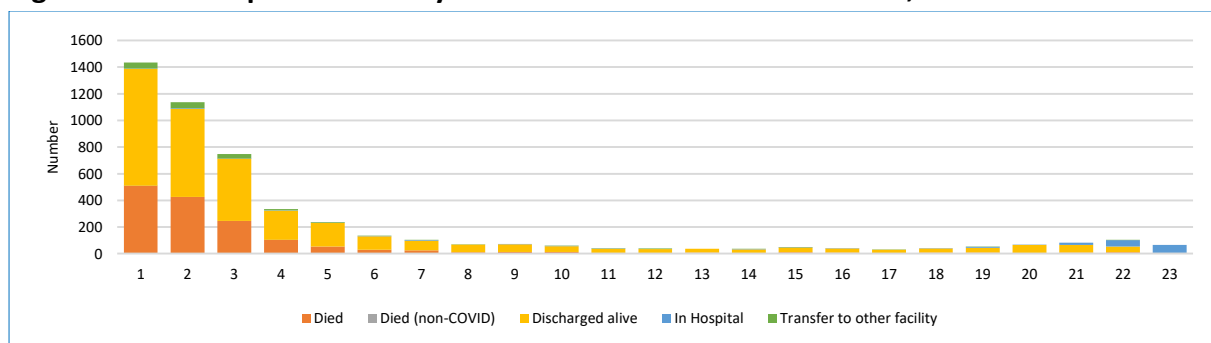
Districts	Currently admitted	In ICU	Ventilated	Oxygenated	Admitted in Past Day
Alfred Nzo	2	0	0	1	0
Amathole	3	0	1	2	0
BC Metro	42	7	2	26	1
Chris Hani	10	2	0	5	1
Joe Gqabi	3	0	0	1	0
NM Metro	233	47	37	78	12
O R Tambo	9	0	0	6	2
Sarah Baartman	23	0	0	6	3
Eastern Cape	325	56	40	125	19



**Fig. 28. Average (7 days moving) daily admissions by districts, as of 11<sup>th</sup> June 2021 (DATCOV)**



**Fig. 29. No. of hospitalizations by date of admission for each district, as of 11<sup>th</sup> June 2021**

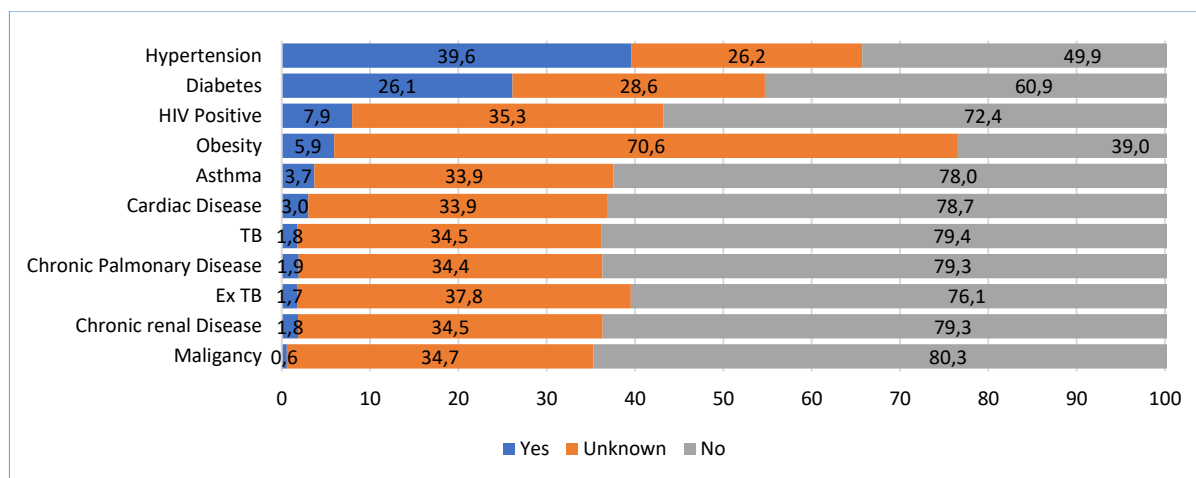


**Fig. 30. Hospitalizations & outcomes by admission week, as of 11<sup>th</sup> June 2021 (DATCOV)**

The number of currently hospitalized patients remained low since week 8 of this year but appear to be gradually increasing from week 19.

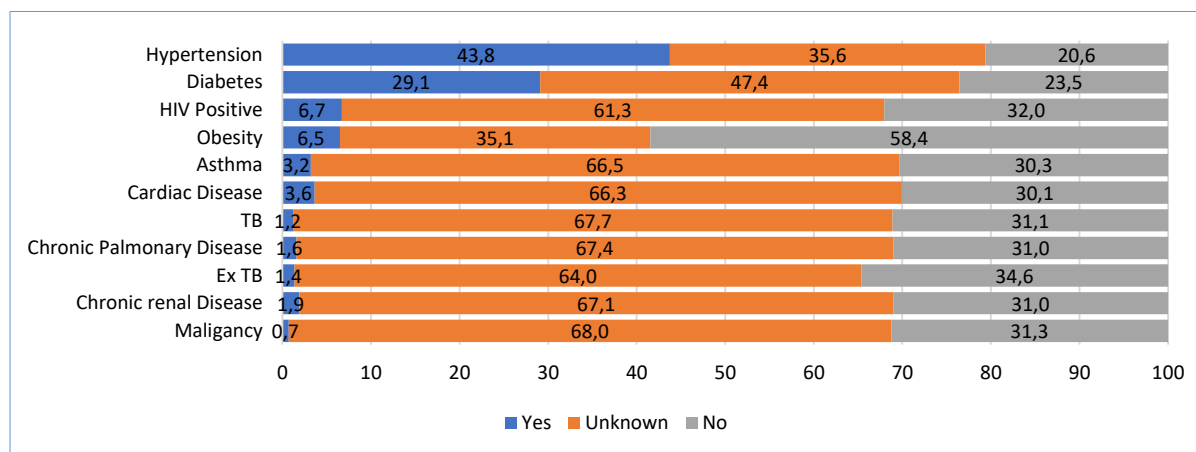
## 9.2. Co-morbidities among admitted cases and deaths

The most common co-morbidities among the hospitalized SARS-Cov-2 patients were hypertension (39,6%) and diabetes (26,1%) among hospitalized SARS-Cov-2 cases. Two others were HIV (7,9%), obesity (5,9%) and asthma (3,7%).



**Fig. 31. Co-morbidities among SARS-Cov-2 hospitalizations, as of 11<sup>th</sup> 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 11<sup>th</sup> June 2021 (DATCOV)**

The most common comorbidities among those cases that demised in the hospital include hypertension (43,8%) and diabetes (29,1%). Other 4 co-morbidities were reported, i.e., HIV (6,7%), obesity (6,5%), cardiac diseases (3,6%), and asthma (3,2%).



3 577 773

No Screened



1 032 454

Total Lab Tests



203 709

Positive Cases



188 430

Recoveries



11 795

Deaths

DISTRICT	TOTAL SCREENED	TOTAL TESTED	TOTAL CASES	RECOVERIES	DEATHS	ACTIVE CASES	AREAS
ALFRED NZO	694 706	34 528	8 133	7 584	511	38	Badibanise,Bhakubha,Bizana,Brooksnek,Cedarville,Chithwa,Dutyini,Emanxiweni,Ezinteteni,Kokstad,Lucingweni,Ma-luti, Mandileni , Matatiele,Mount Ayliff, Mount Frere , Ndiantana, Ngcingo , Ntabakhulu, Sugar Bush, Tabankulu
AMATHOLE	658 126	84 916	19 501	18 340	1113	48	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	167 079	39 821	37 091	2372	358	Abbottsford, Amalinda , Beacon Bay, Bisho, Braelyn, Buffalo Flats, Dimbaza, Duncan Village, East London, Gins-berg, 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, Zwaitsha
CHRIS HANI	515 346	76 436	20 018	18 296	1622	100	Bankies, Dordrecht, Dukathole, Ekunene, Ezibeleni, Kwanobuhle, Mcwangele, Madeira Park, New Rest, Ngcobo, Nkonyama, Popcorn Valley, Qebe, Qogodala, Queenstown, Sigadleni, Vaalbank, Sada, Middleburg, Thornhill, Ndzamel, Mlungisi,Westbourne,Ntlonze, Maya Village,Ekuphumleni, TopTown, Vleipoot, Zola
JOE GOABI	87 855	31 482	7 968	7 332	509	127	Aliwal North, Barkley East, Bhodi, Land Camp, Ugie, Inglewood, Maclear, Solomzi, Sunduza,Robbarn,Venterstad
NELSON MANDELA METRO	856 883	247 975	61 139	55 365	3418	2 356	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	100 194	22 580	21 153	1386	41	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, Ziphuzana
SARAH BAARTMAN	288 877	109 975	22 719	21 464	864	391	Aberdeen, Alexandria, Graaf-Reinet, Grahamstown, Jeffrey's Bay, Joubertina, Humansdorp, Parson, St. Francis Bay, Kirkwood, Lotusville, Bergendal, Bratenfel, Joza, Santaville, Somerset East, Thornhill, Willomore
IMPORTED*	-	0	697	679	0	18	Bloemfontein, Ceres, Cape Town, Dunoon, Fishhoek, George, Green Point, Gugulethu, Hout Bay, Langa, Khayelitsha, Knysna, Phillipi, Stellenbosch, Strand
PENDING	-	179 869	1133	1126	0	7	
GRAND TOTALS	3 577 773	1 032 454	203 709	188 430	11 795	3 484	

## 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 during the first wave of the pandemic.
- 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 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	172	288	67,4		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	24,29	41,61	71,3		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	182	254	39,6		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,36	0,43	19,4		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		7,9			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		380			There should be 5 tests for each positive case per 100000 population

ALFRED NZO						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	4	6	50,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,97	3,74	285,6		< 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	0,12	0,60	400,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,5			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		109			There should be 5 tests for each positive case per 100000 population

AMATHOLE						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	4	4	0,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	3,13	5,64	80,2		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	1	2	100,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,00	0,0		< 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		107			There should be 5 tests for each positive case per 100000 population



BUFFALO CITY METRO						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	20	27	35,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	21,53	34,18	58,8		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	29	26	-10,3		< 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		15,7			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		153			There should be 5 tests for each positive case per 100000 population

CHRIS HANI						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	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	9,95	12,27	23		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	11	10	-9		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,55	0,41	-25		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		1,8			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		332			There should be 5 tests for each positive case per 100000 population

JOE GQABI						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	11	11	0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	20,40	27,98	37		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	2	1	-50		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	1,75	0,58	-67		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		11,5			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		142			There should be 5 tests for each positive case per 100000 population

NELSON MANDELA BAY						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	112	209	86,6		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	89,28	162,54	82,1		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	115	184	60,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,74	1,07	44,6		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		17,0			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		712			There should be 5 tests for each positive case per 100000 population

OR TAMBO						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	4	4	0,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	1,38	1,91	38,4		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	5	6	20,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,13	infinity		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		1,4			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		96			There should be 5 tests for each positive case per 100000 population

SARAH BAARTMAN						
Indicator	Description	week 23	week 24	% change	Phase/Th reshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	17	27	58,8		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	36,65	54,14	47,7		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	15	21	40,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,21	0,62	195,2		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		12,9			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		323			There should be 5 tests for each positive case per 100000 population