

# COVID-19 HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR  
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 30 2021

## OVERVIEW

This report summarises data of COVID-19 cases admitted to DATCOV hospital surveillance sites in all provinces. The report is based on data collected from 5 March 2020 to 31 July 2021.

## HIGHLIGHTS

- As of 31 July 2021, 367,104 COVID-19 admissions and 77,372 in-hospital deaths were reported from 669 facilities (412 public-sector and 257 private-sector) in all nine provinces of South Africa.
- In the third wave, increases in admissions in all provinces were observed. However, decreases in admissions across all provinces have been observed in the past few weeks, except Western Cape that still shows increased admissions in the public sector.
- The weekly numbers of admissions in the third wave have surpassed the peak of admissions in the second wave in Gauteng and North West in both sectors, and in Free State, Mpumalanga and Northern Cape in the private sector.

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## METHODS

DATCOV, a hospital surveillance system for COVID-19 admissions, was initiated on the 1 April 2020. A COVID-19 case was defined as a person with a positive reverse transcriptase polymerase chain reaction (RT-PCR) assay for SARS-CoV-2 or a person who had a positive SARS-CoV-2 antigen test who was admitted to hospital. Case fatality ratio (CFR) was calculated for all closed cases, i.e. COVID-19 deaths divided by COVID-19 deaths plus COVID-19 discharges, excluding individuals who are still admitted in hospital. For the calculation of cumulative incidence risks, StatsSA mid-year population estimates for 2020 were utilised.

We used last 7-day average incidence per 1 million capita as reported in Our World in Data; for the purposes of this analysis, using the 7-day running average (either absolute or per capita) would be equivalent. For comparisons of the last period and previous period, we used 14-day average admissions for both periods.

Data are submitted by public and private hospitals that have agreed to report COVID-19 admissions through DATCOV surveillance in all nine provinces of South Africa. On 15 July 2020, the National Health Council decided that all hospitals should report to DATCOV. As of 31 July 2021, a total of 669 facilities submitted data on hospitalised COVID-19 cases, 412 from public sector and 257 from private sector (Table 1). This reflects 100% coverage of all public and private hospitals that have had COVID-19 admissions. As new hospitals join the surveillance system, they have retrospectively captured all admissions recorded although there may be some backlogs in retrospective data capture.

**Table 1.** Number of hospitals reporting data on COVID-19 admissions by province and sector, South Africa, 5 March 2020-31 July 2021.

Name of province	Public Sector	Private Sector
Eastern Cape	86	18
Free State	35	20
Gauteng	40	94
KwaZulu-Natal	70	46
Limpopo	41	7
Mpumalanga	31	9
North West	18	13
Northern Cape	32	8
Western Cape	59	42
<b>South Africa</b>	<b>412</b>	<b>257</b>

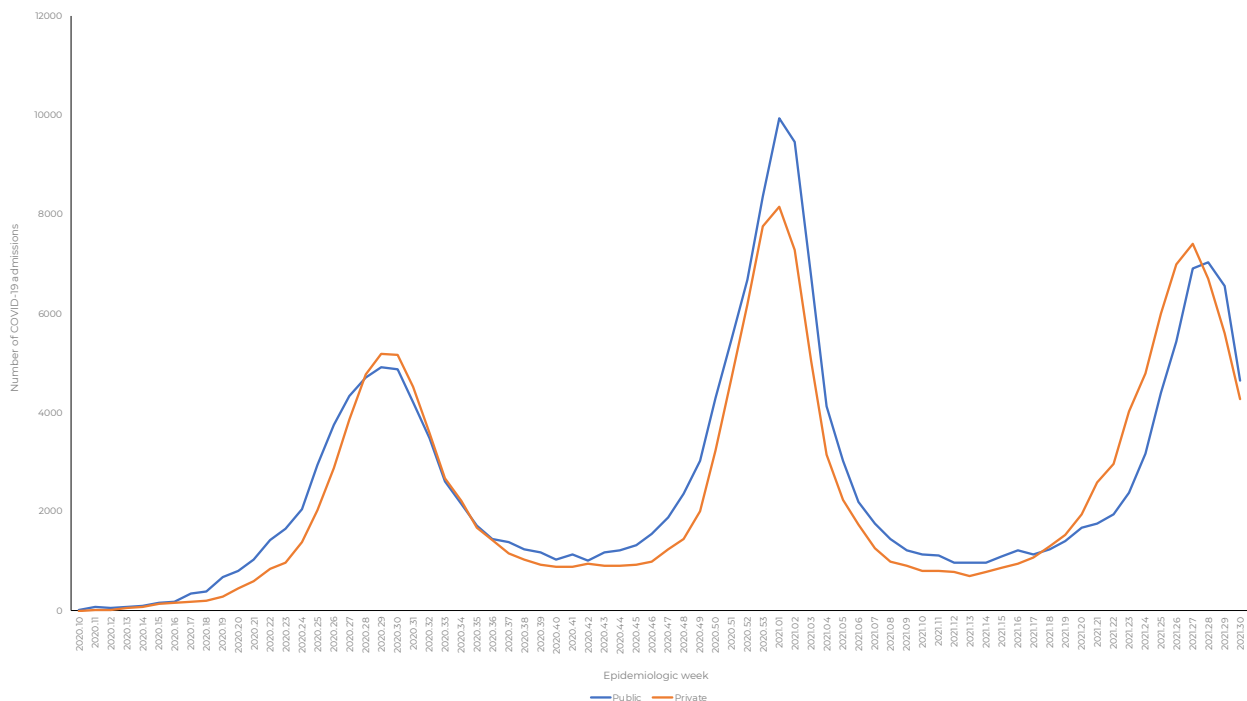
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## RESULTS

### Epidemiological and geographic trends in admissions

From 5 March 2020 to 31 July 2021, a total of 367,104 COVID-19 admissions were reported from 669 facilities in all nine provinces of South Africa. South Africa has entered the third wave. Since week 14 2021, numbers of COVID-19 admissions increased in both sectors, but admissions have decreased in both sectors for the past three weeks (Figure 1). Decreases in the most recent week may reflect delays in data submission in the public sector, however private sector data submission is up to date.

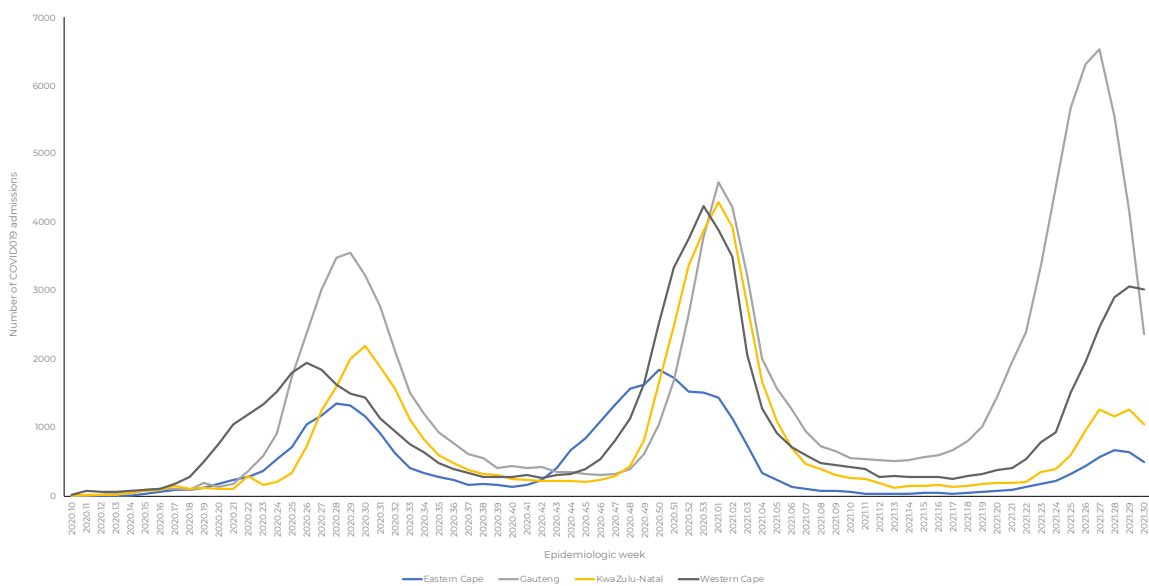


**Figure 1.** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020–31 July 2021, n=367,104

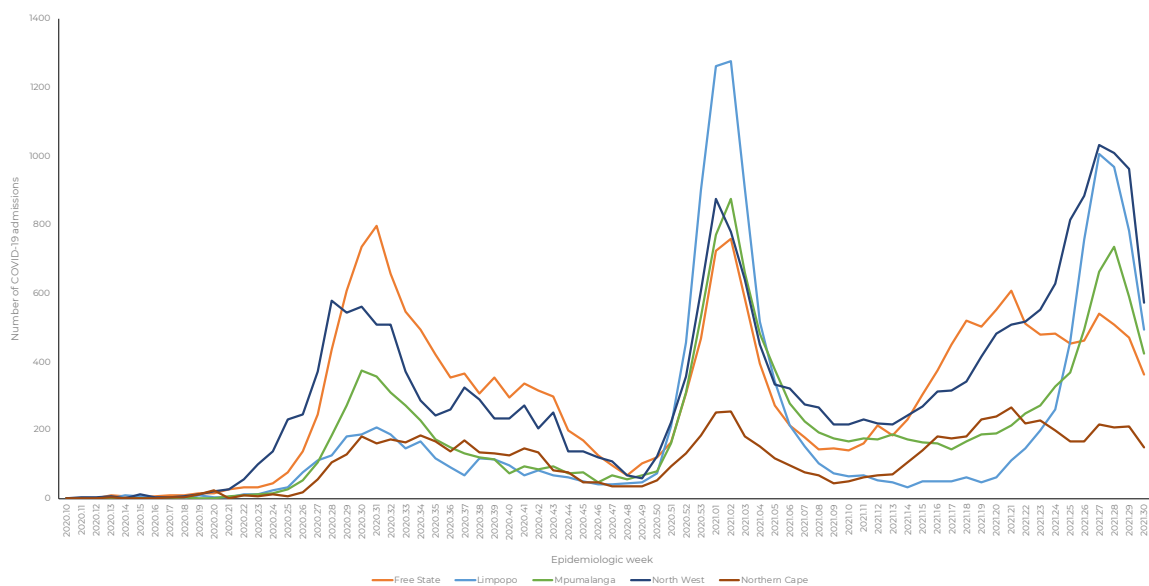
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

The majority of admissions were recorded in four provinces, Gauteng 114,103 (31%), Western Cape 77,625 (21%), KwaZulu-Natal 56,738 (15%) and Eastern Cape 35,415 (10%) provinces. Numbers of COVID-19 admissions have increased in all provinces (Figures 2a and 2b), but a decrease in admissions has been observed in Free State and Northern Cape for eight weeks and decrease in admissions in all other provinces for the past three weeks.



**Figure 2a.** Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-31 July 2021, n=367,104



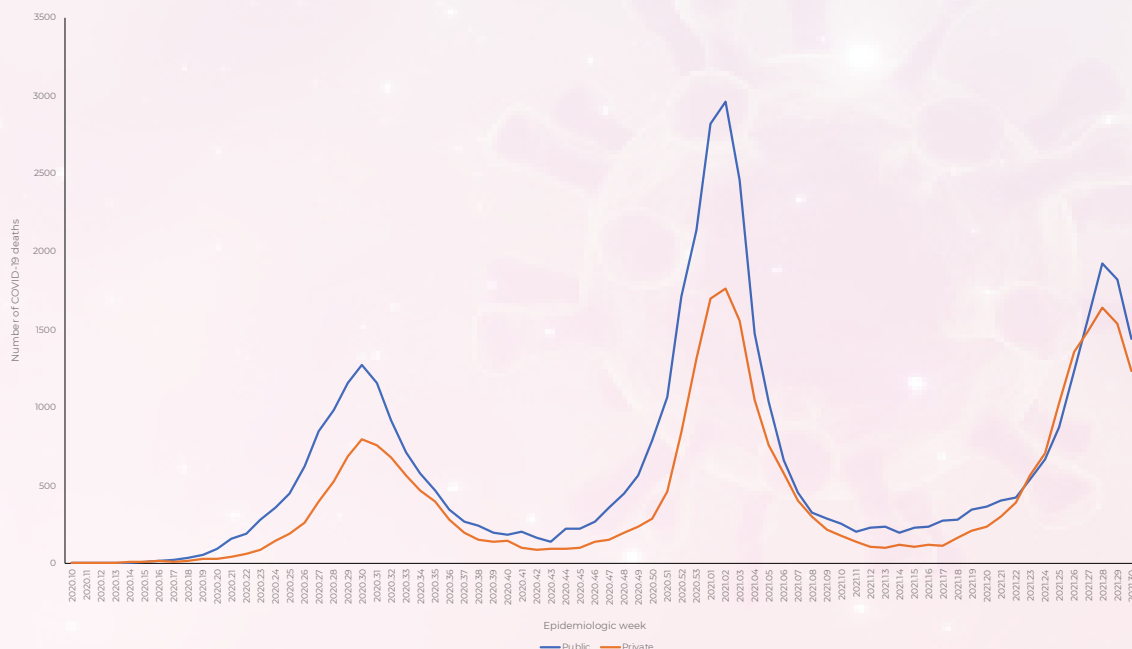
**Figure 2b.** Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-31 July 2021, n=367,104

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

The number of deaths has increased in both sectors since week 15 (Figure 3). Decreases in deaths in both sectors have been observed in the past two weeks.

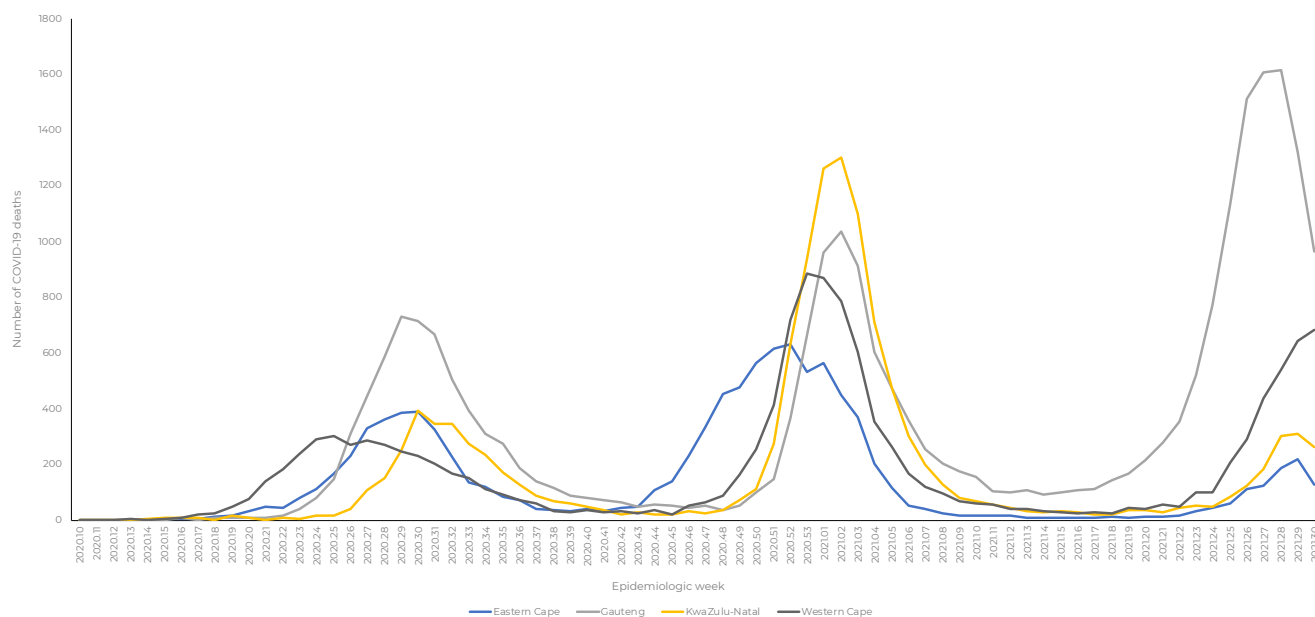


**Figure 3.** Number of in-hospital COVID-19 in-hospital deaths reported per week by health sector and epidemiologic week, South Africa, 5 March 2020-31 July 2021, n=77,372

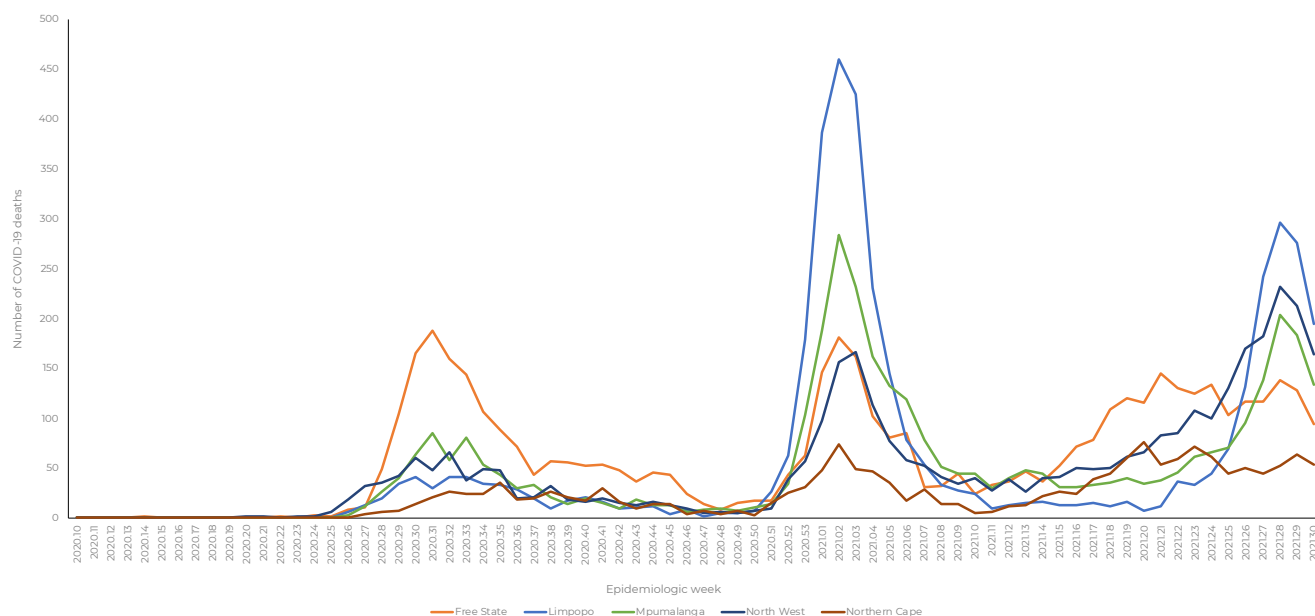
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Most deaths were reported in Gauteng 24,029 (31%), Western Cape 13,180 (17%), KwaZulu-Natal 12,391 (16%), and Eastern Cape 10,378 (13%). The numbers of COVID-19 deaths have increased in all provinces although decreases in deaths have been observed in all districts except Western Cape (Figures 4a and 4b).



**Figure 4a.** Number reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-31 July 2021, n=77,372



**Figure 4b.** Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-31 July 2021, n=77,372

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

The cumulative incidence risks of COVID-19 admissions and in-hospital deaths were highest in Western Cape, Free State and Gauteng provinces (Table 2).

**Table 2.** Number and cumulative incidence risk of COVID-19 hospitalisations and in-hospital deaths per 100,000 persons by province, South Africa, 5 March 2020-31 July 2021.

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative Admissions / 100,000	Cumulative deaths	Cumulative deaths / 100,000
Eastern Cape	6734001	35415	525.9	10378	154.1
Free State	2928903	21693	740.7	4564	155.8
Gauteng	15488137	114,103	736.7	24029	155.1
KwaZulu-Natal	11531628	56738	492.0	12389	107.4
Limpopo	5852553	14849	253.7	4066	69.5
Mpumalanga	4679786	14982	320.1	3580	76.5
North West	4108816	23,699	576.8	3526	85.8
Northern Cape	1292786	8,000	618.8	1658	128.3
Western Cape	7005741	77,625	1108.0	13179	188.1
<b>South Africa</b>	<b>59622350</b>	<b>367,104</b>	<b>615.7</b>	<b>77,369</b>	<b>129.8</b>

\*StatsSA mid-year population estimates 2020

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## PROVINCIAL TRENDS

There was a decrease in the average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in all the districts except Western Cape (Table 3). There was an increase in in-hospital COVID-19 deaths in Eastern Cape, KwaZulu-Natal, Northern Cape and Western Cape. Decreases in the most recent week may in part reflect delays in data submission. There was only 1 of 52 (2%) districts across the country that reported increased change in admissions, West Coast (Western Cape) (Appendix 1).

**Table 3.** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, South Africa, 03 July-31 July 2021.

Province	Hospital admissions		Percentage change in admissions	Hospital deaths		Percentage change in deaths
	Previous 14 days average admissions	Current 14 days average admissions		Previous 14 days average deaths	Current 14 days average deaths	
Eastern Cape	89.21	81.86	-8.25	22.21	24.71	11.25
Free State	74.64	59.50	-20.29	18.21	15.86	-12.94
Gauteng	863.64	466.00	-46.04	229.86	163.07	-29.06
KwaZulu-Natal	173.93	165.43	-4.89	34.64	40.93	18.14
Limpopo	140.57	91.14	-35.16	38.43	33.57	-12.64
Mpumalanga	99.86	72.43	-27.47	24.36	22.57	-7.33
North West	145.57	109.36	-24.88	29.57	26.86	-9.18
Northern Cape	30.07	25.71	-14.49	6.93	8.36	20.62
Western Cape	383.71	434.14	13.14	69.57	94.50	35.83
<b>South Africa</b>	<b>89.21</b>	<b>81.86</b>	<b>-8.25</b>	<b>22.21</b>	<b>24.71</b>	<b>11.25</b>

\* Reporting of new admissions in the most recent week may be delayed

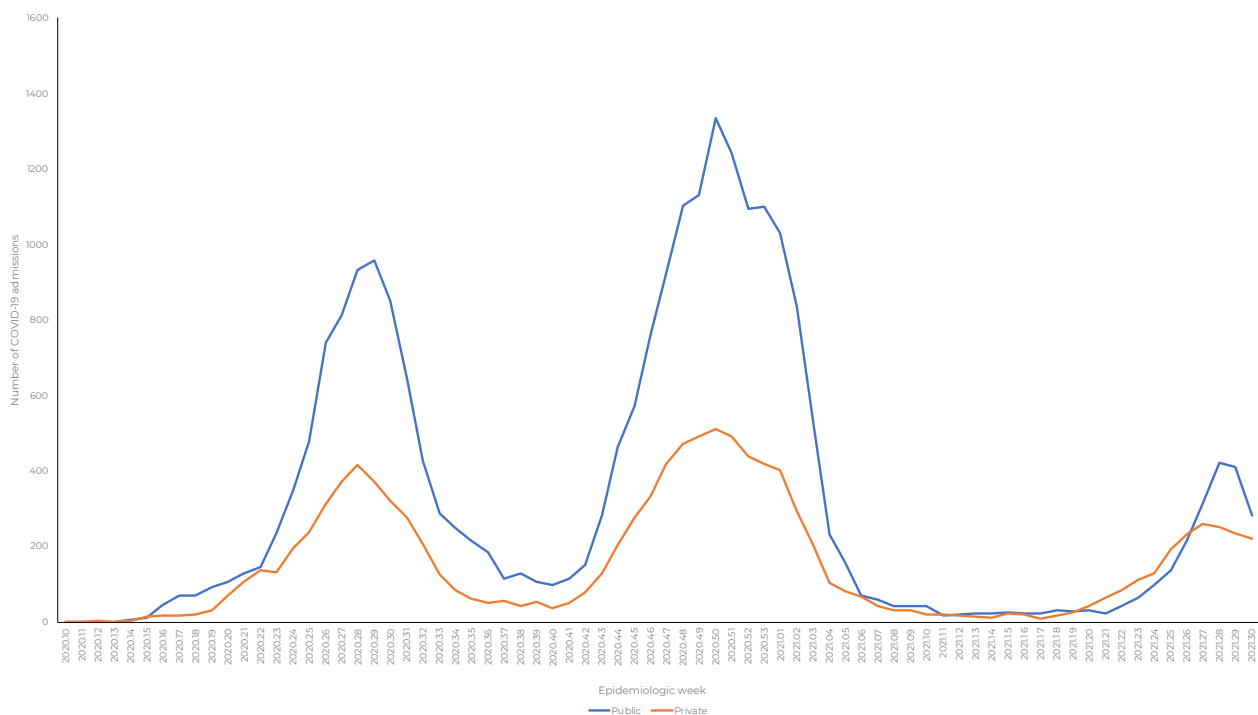


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## EASTERN CAPE

In the first and second waves there were higher numbers of admissions in the public sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors. There has been increase in admissions in both sectors since week 20, however a decrease in admissions has been observed in both sectors in the past two weeks (Figure 5).

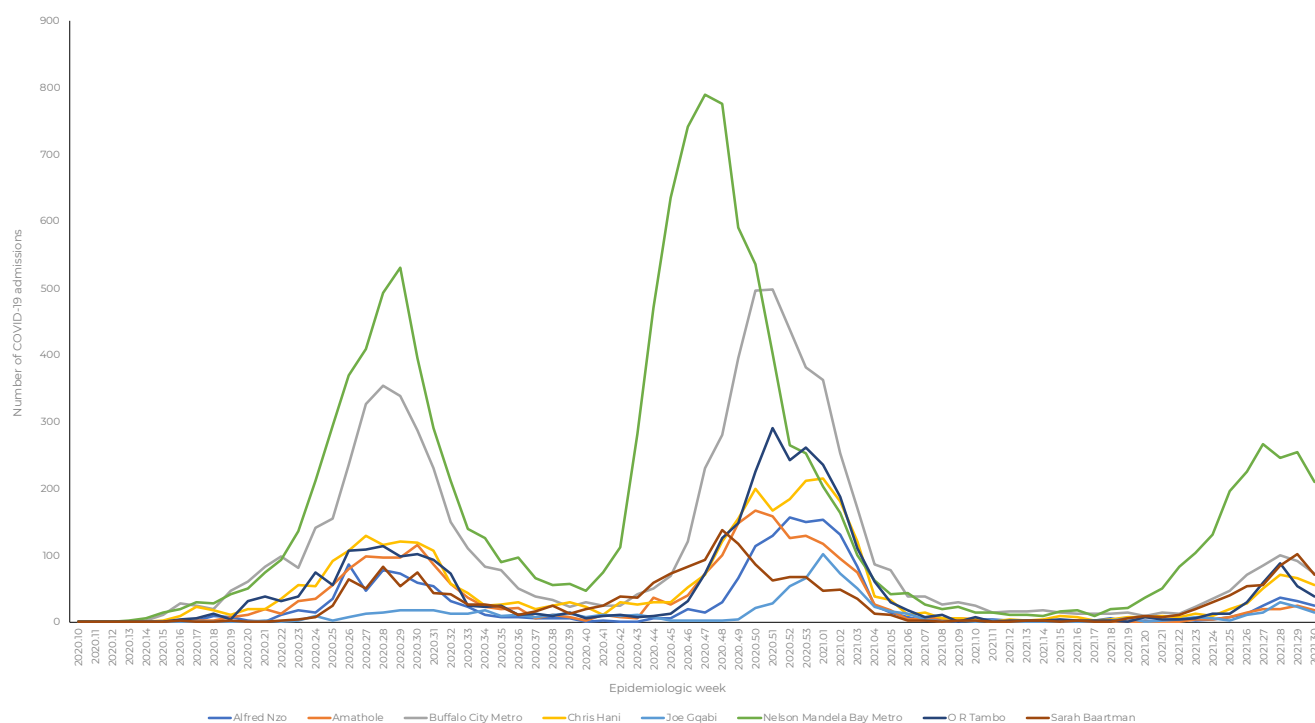


**Figure 5:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-31 July 2021, n=35,415

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

The weekly admissions at the peak of the second wave exceeded the numbers of admissions at the peak of the first wave in all districts (Figure 6). There have been small increases in admissions in most districts since week 19, with highest increase in Nelson Mandela Metro, although admissions have decreased in most districts in the past three weeks.

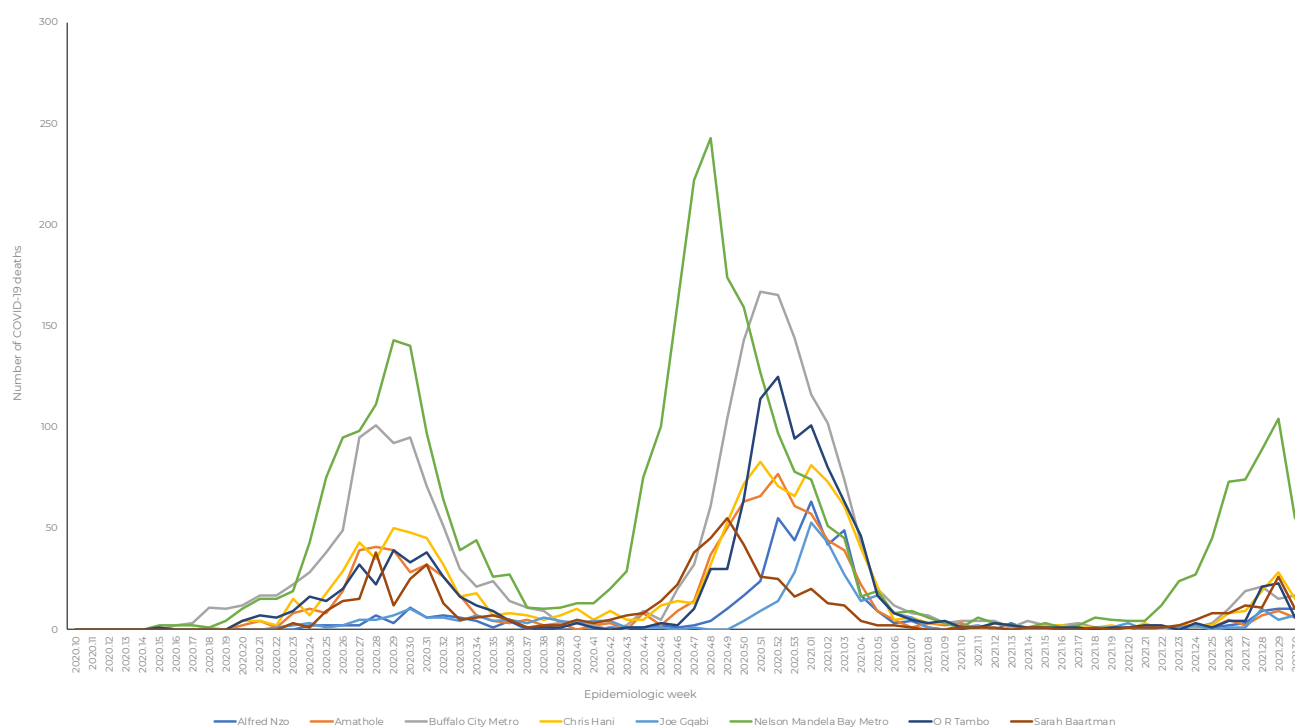


**Figure 6.** Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-31 July 2021, n=35,415

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

The weekly deaths at the peak of the second wave exceeded the numbers of deaths at the peak of the first wave in all districts (Figure 7). There have been decreases in deaths in all districts in the past week.



**Figure 7.** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-31 July 2021, n=10,378

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

There has been a decrease in the average COVID-19 admissions comparing the previous 14 days and the current 14 days in all the districts except Amathole and Sarah Baartman (Table 4). The highest percentage change in admissions was in Sarah Baartman.

**Table 4:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 03 July-31 July 2021.

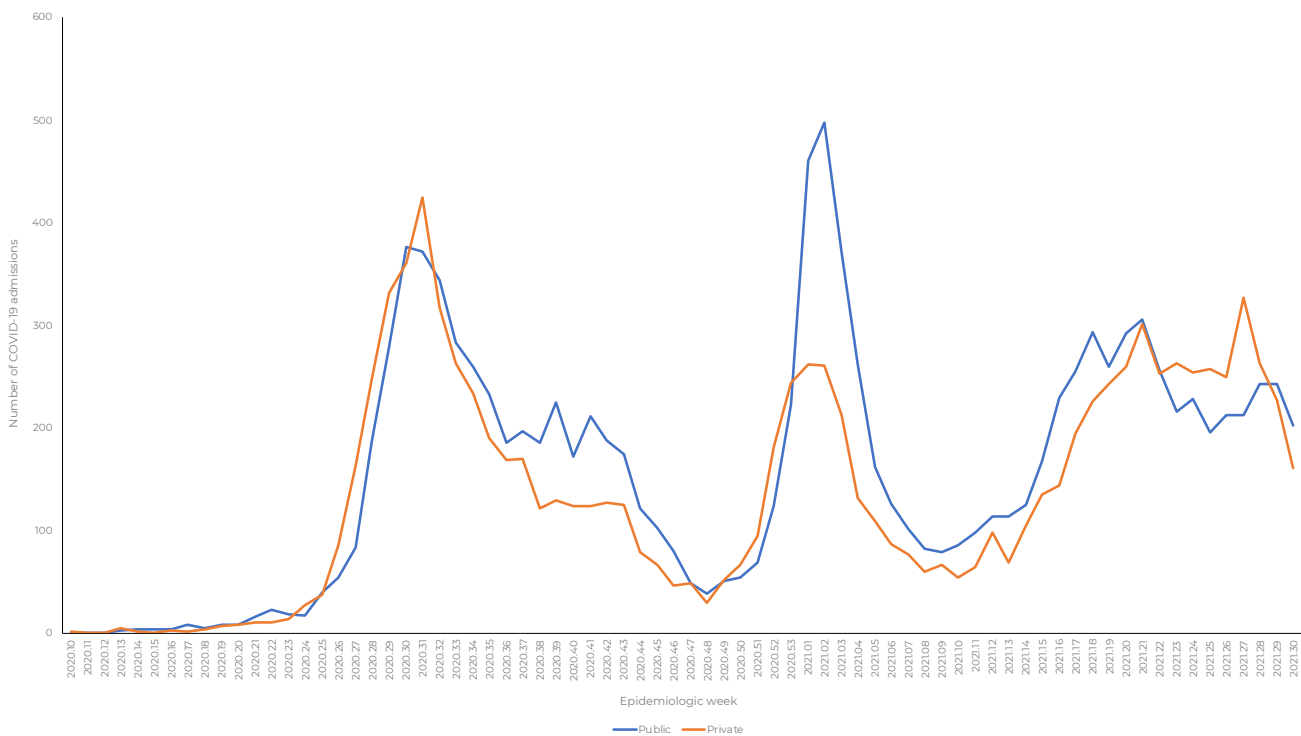
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Alfred Nzo	4.43	3.93	-11.29	0.86	1.43	66.67
Amathole	2.79	2.93	5.13	0.64	1.07	66.67
Buffalo City Metro	13.14	11.64	-11.41	2.86	2.29	-20.00
Chris Hani	8.64	8.64	0.00	2.00	3.07	53.57
Joe Gqabi	3.21	2.71	-15.56	0.79	0.86	9.09
Nelson Mandela Bay	36.64	33.07	-9.75	11.64	11.36	-2.45
O R Tambo	10.43	6.64	-36.30	1.79	2.07	16.00
Sarah Baartman	9.93	12.29	23.74	1.64	2.57	56.52

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## FREE STATE

In the first and third waves there were roughly equal numbers of admissions in both sectors, but in the second wave there were higher numbers of admissions in the public sector (Figure 8). Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in the public sector. The numbers of COVID-19 admissions increased in both sectors since week 9 and have shown decreases in the public sector for the past eight weeks. Weekly admissions in the third wave have exceeded the weekly numbers of admissions at the peak of the second wave in the private sector.

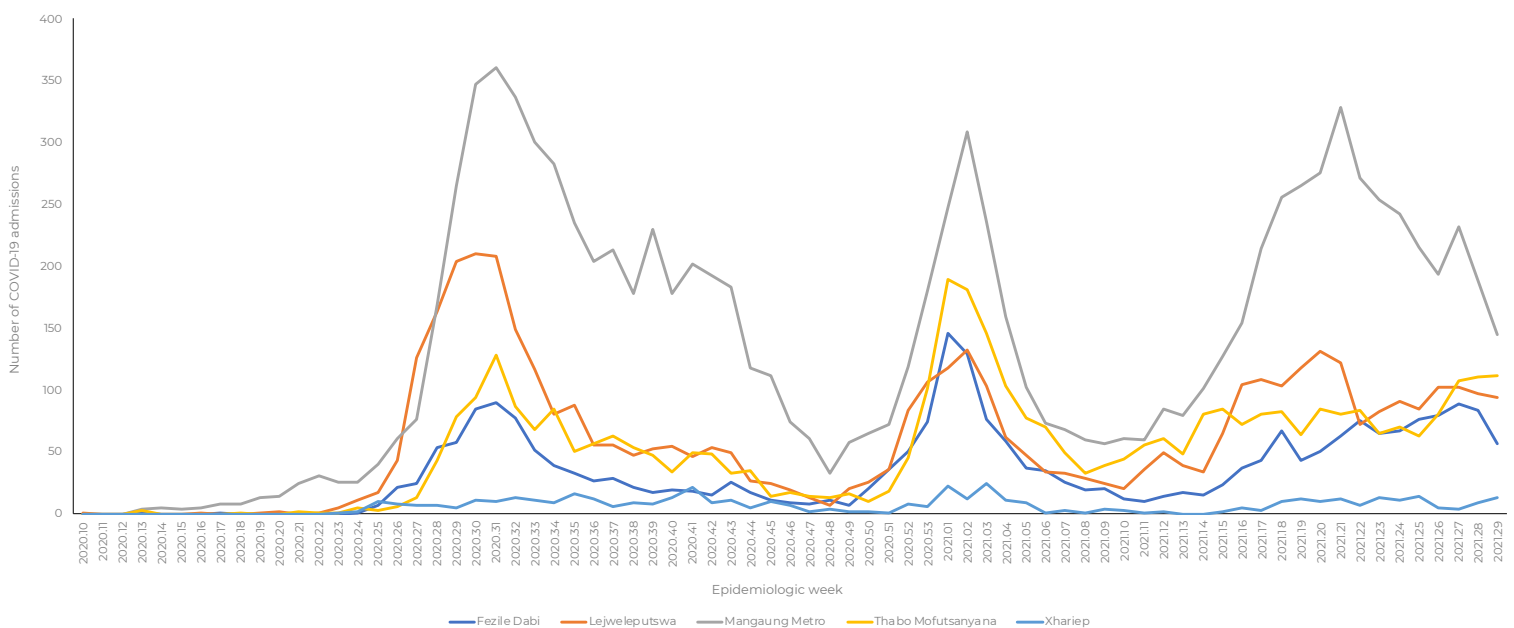


**Figure 8:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020–31 July 2021, n=21,693

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in Fezile Dabi, Thabo Mofutsanyane and Xhariep (Figure 9). Admissions increased in all districts, with highest increase in Mangaung Metro, but have shown sustained decreases for the past eight weeks in most districts except Thabo Mofutsanyane. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Mangaung Metro.

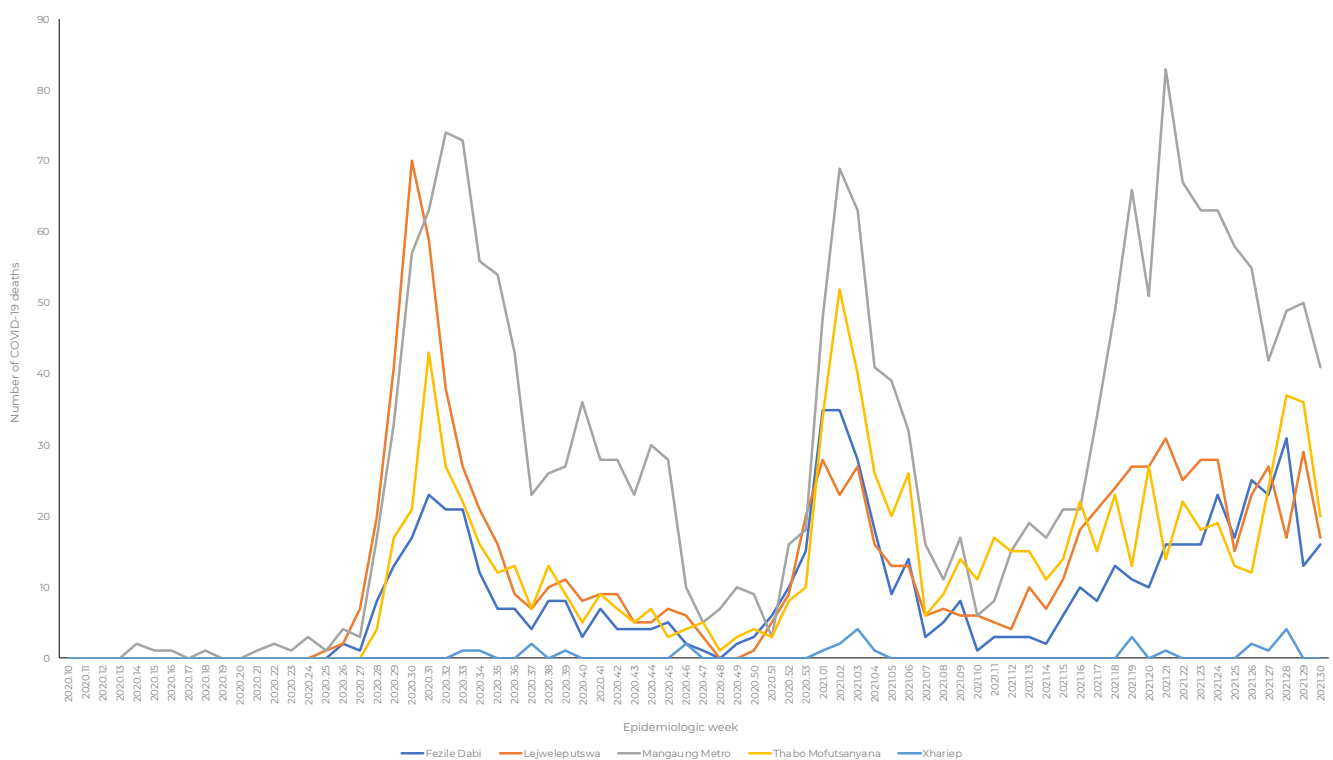


**Figure 9:** Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-31 July 2021, n=21,693

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in Thabo Mofutsanyana, Fezile Dabi and Xhariep (Figure 10). The numbers of COVID-19 deaths have increased in all districts, but have shown sustained decreases for the past eight weeks in most districts. However, there have been increased admissions in Mangaung Metro, Thabo Mofutsanyane and Lejweleputswa in the past two weeks. Weekly deaths at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Mangaung Metro and Lejweleputswa.



**Figure 10:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-31 July 2021, n=4,564

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

There has been a decrease in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all the districts except Xhariep (Table 5). The highest percentage change in admissions was in Xhariep.

**Table 5:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 03 July-31 July 2021.

District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Fezile Dabi	12.71	6.86	-46.07	3.86	2.07	-46.30
Lejweleputswa	14.57	14.50	-0.49	3.14	3.29	4.55
Mangaung Metro	30.93	23.29	-24.71	6.50	6.50	0.00
Thabo Mofutsanyana	15.50	13.64	-11.98	4.36	4.00	-8.20
Xhariep	0.93	1.21	30.77	0.36	0.00	-100.00

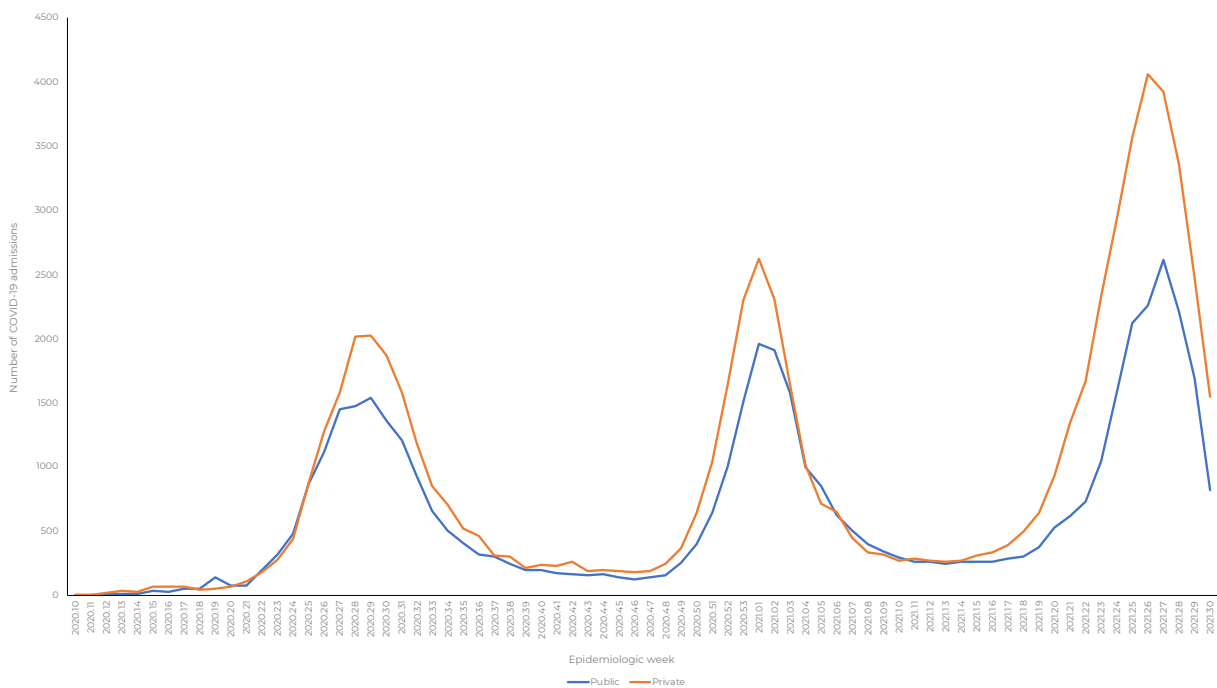


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## GAUTENG

In all three waves there were higher numbers of admissions in the private sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 11). There has been an increase in admission in both sectors, more marked in the private sector, since week 14. However, a decrease in admissions has been observed in both sectors for the past four weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in both sectors.

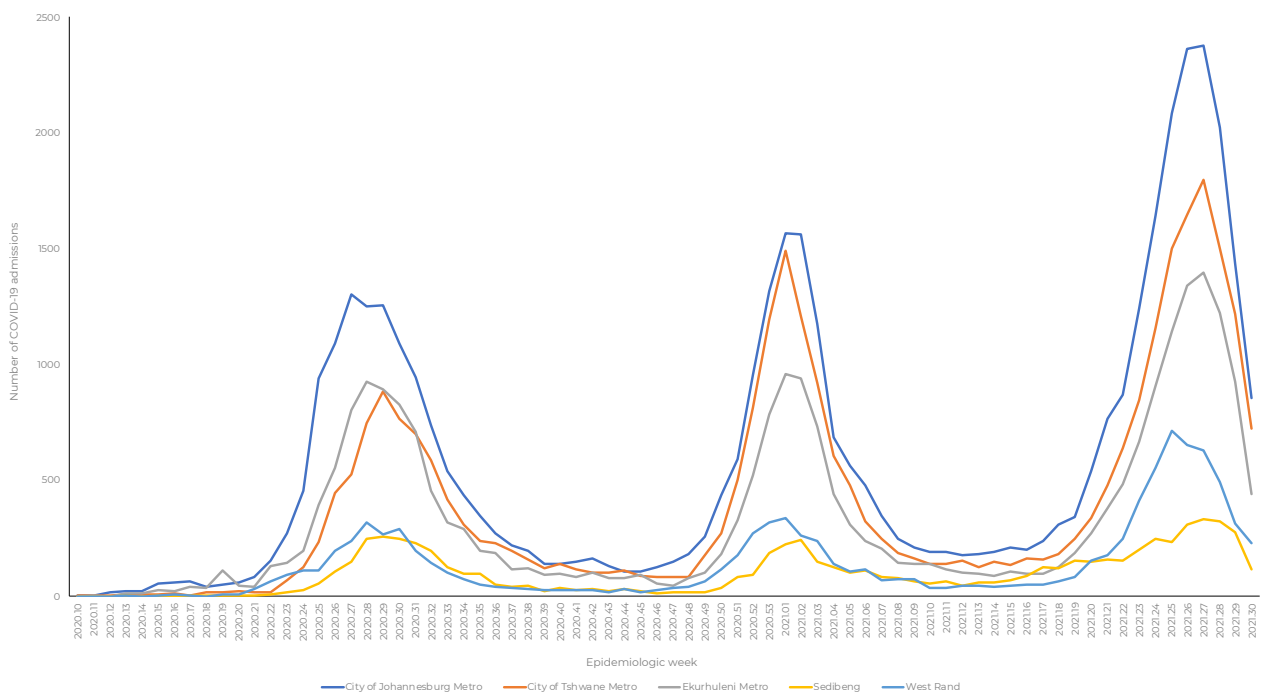


**Figure 11:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-31 July 2021, n=114,103

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in City of Johannesburg Metro, City of Tshwane Metro, Ekurhuleni Metro and West Rand (Figure 12). There have been increases in admissions in all districts, however a decrease in admissions has been observed in all districts over the past three weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in all districts.

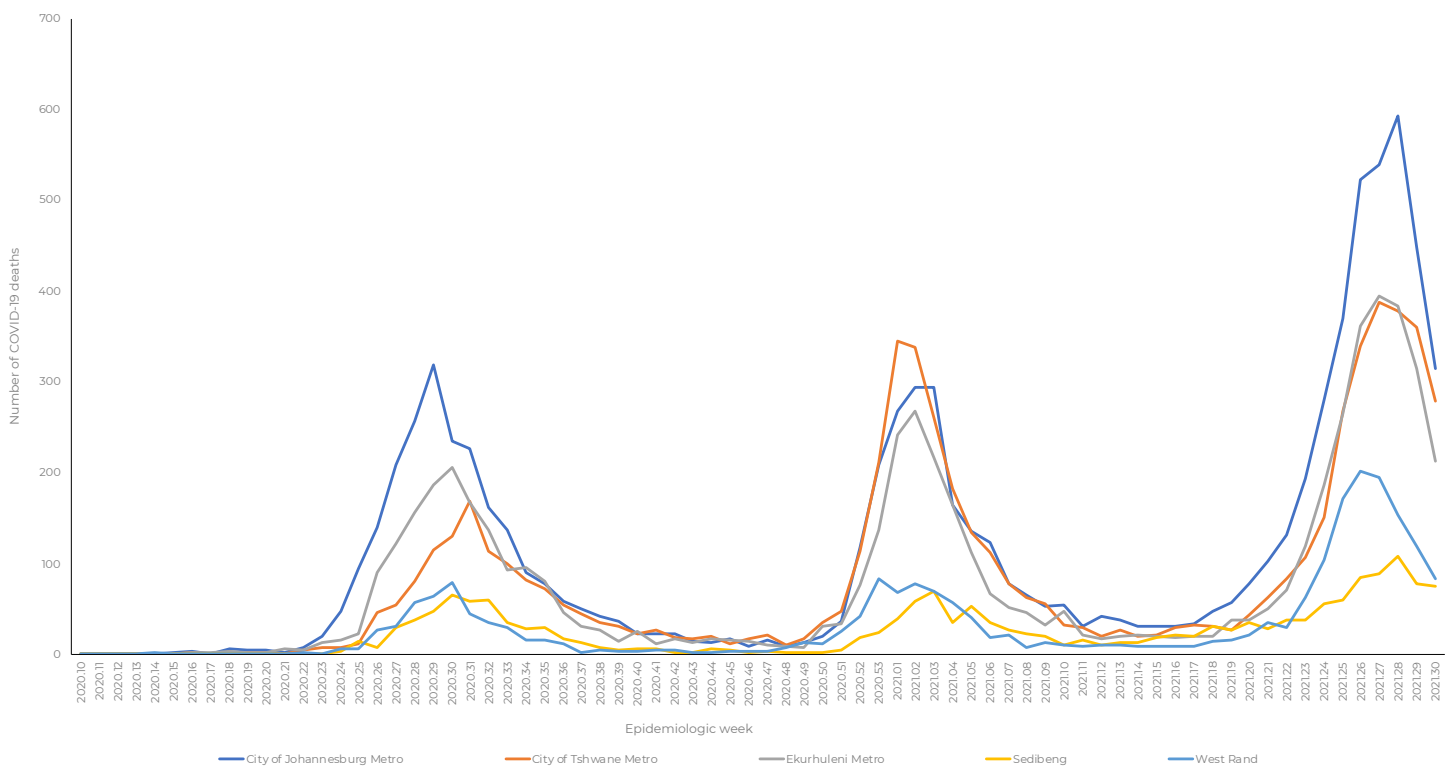


**Figure 12:** Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-31 July 2021, n=114,103

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in City of Tshwane Metro, Ekurhuleni Metro and West Rand (Figure 13). The numbers of COVID-19 deaths increased in all districts, however a decrease in the number of deaths has been observed in all districts over the past two weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in all districts.



**Figure 13:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-31 July 2021, n=24,029

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

There has been a decrease in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 6).

**Table 6:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 03 July-31 July 2021.

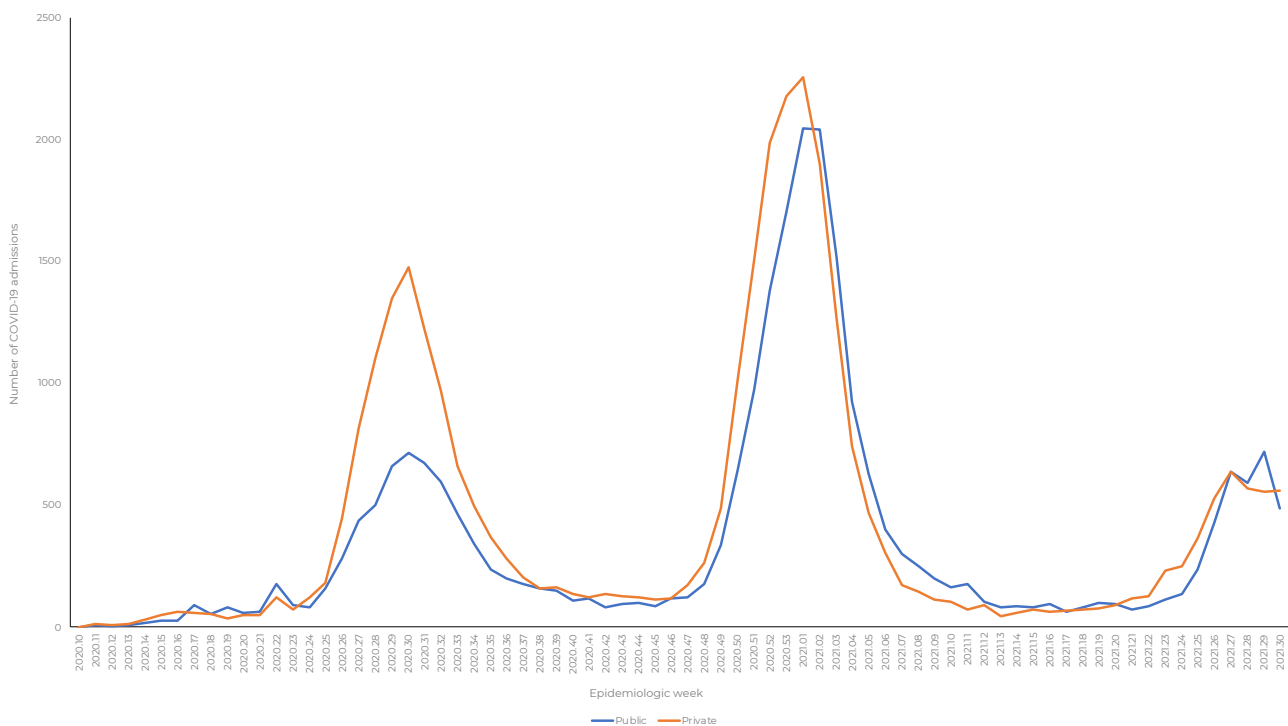
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
City of Johannesburg Metro	314.21	163.21	-48.06	80.86	54.43	-32.69
City of Tshwane Metro	235.43	138.64	-41.11	54.64	45.64	-16.47
Ekurhuleni Metro	187.14	97.57	-47.86	55.50	37.64	-32.18
Sedibeng	46.64	27.71	-40.58	14.00	10.93	-21.94
West Rand	80.21	38.86	-51.56	24.86	14.43	-41.95

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## KWAZULU-NATAL

In both first and second waves there were higher numbers of admissions in the private sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 14). There has been an increase in admissions in both sectors since week 22 however, a decrease in the number of admissions has been observed in both sectors over the past two weeks.

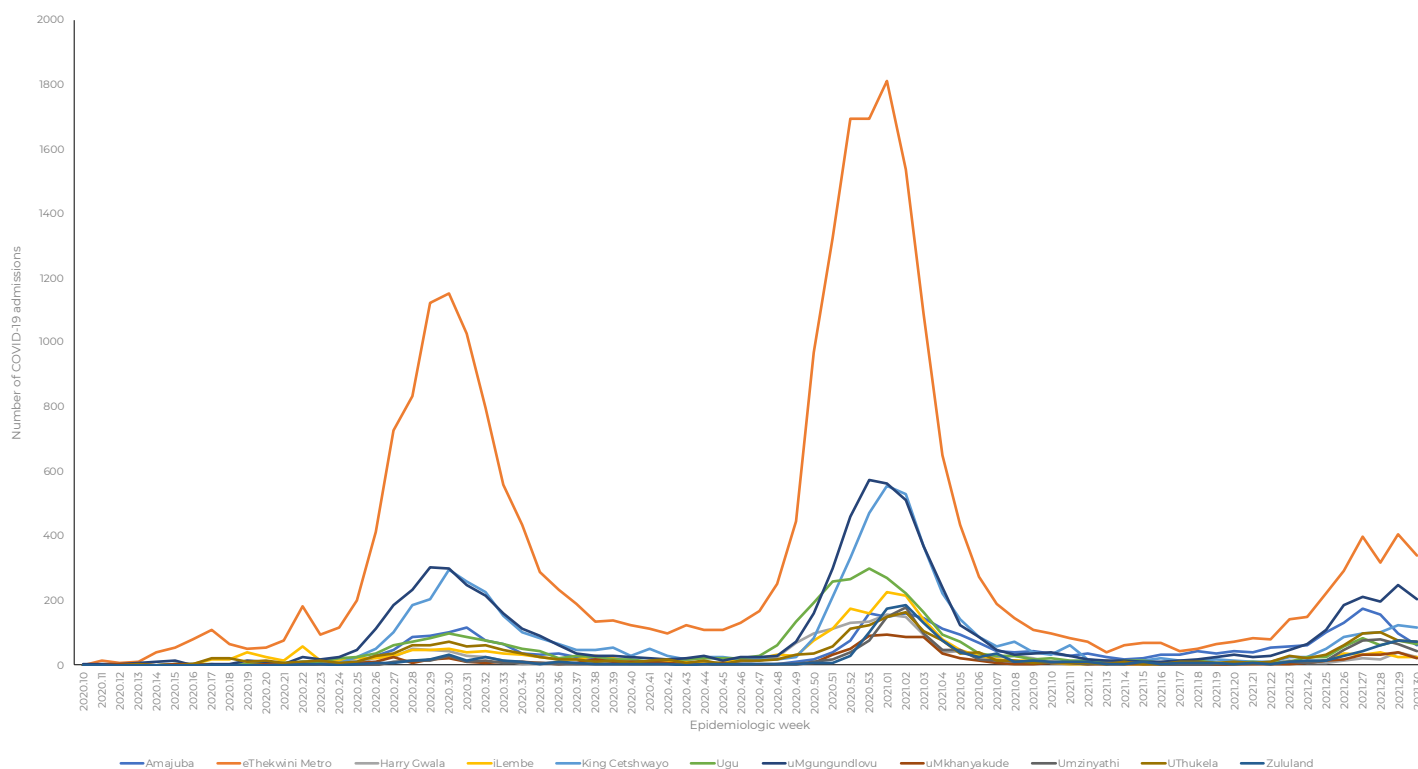


**Figure 14:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-31 July 2021, n=56,738

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in all districts except Amajuba (Figure 15). There has been an increase in admissions in a few districts, particularly in eThekweni Metro. However, a decrease in the number of admissions has been observed in all districts in the past week.

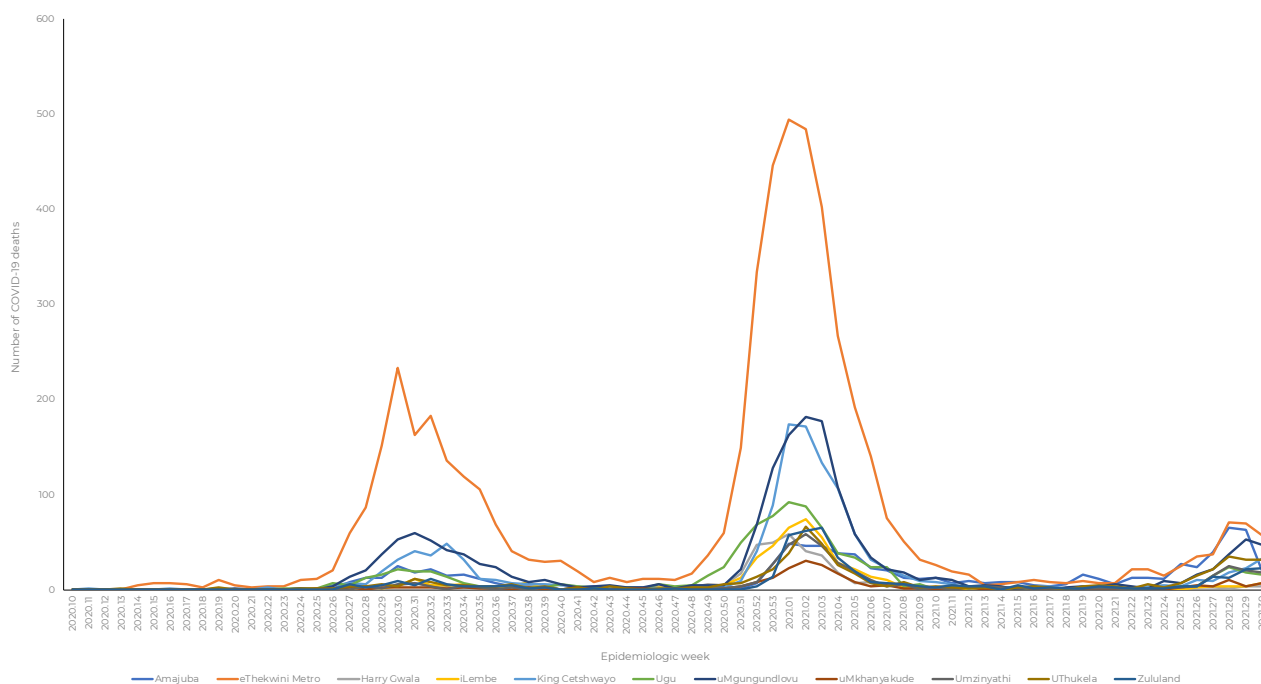


**Figure 15:** Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020–31 July 2021, n=56,738

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 16). Since the end of the second wave, there have been small increases in COVID-19 deaths in most districts.



**Figure 16:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-31 July 2021, n=12,391

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

There has been an increase in average COVID-19 admissions comparing the previous 14 days and the current 14 days in eThekweni Metro, Harry Gwala, King Cetshwayo, uMgungundlovu, uMkhanyakude and Zululand. The highest percentage change in admissions was in Harry Gwala (Table 7).

**Table 7:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 03 July-31 July 2021.

District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Amajuba	23.79	11.43	-51.95	7.43	5.93	-20.19
eThekweni Metro	51.14	53.14	3.91	7.71	9.07	17.59
Harry Gwala	2.86	4.64	62.50	0.21	0.43	100.00
iLembe	5.14	3.57	-30.56	0.50	0.71	42.86
King Cetshwayo	14.29	17.14	20.00	1.93	4.00	107.41
Ugu	10.29	10.00	-2.78	2.79	2.43	-12.82
uMgungundlovu	29.21	32.29	10.51	4.21	7.14	69.49
uMkhanyakude	4.43	4.50	1.61	1.00	0.79	-21.43
Umzinyathi	11.07	7.57	-31.61	2.86	2.71	-5.00
UThukela	14.29	10.64	-25.50	4.07	4.57	12.28
Zululand	7.43	10.50	41.35	1.93	3.14	62.96

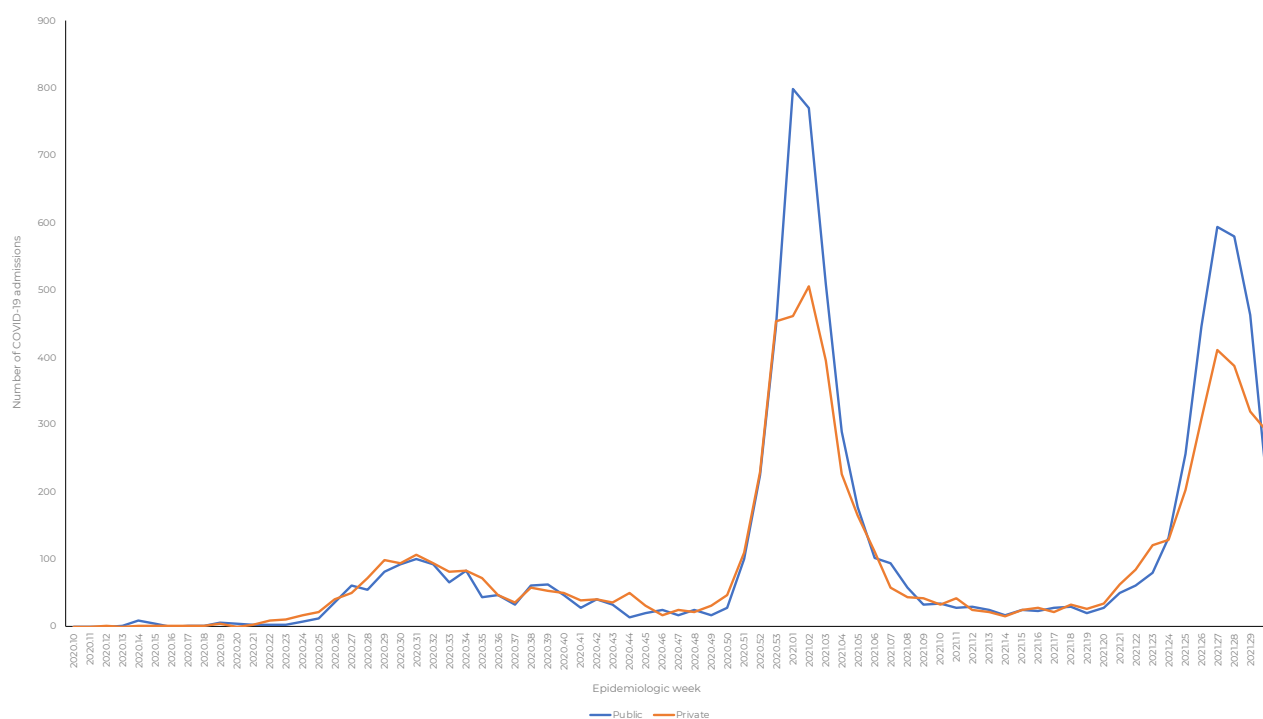


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## LIMPOPO

In the first wave there were roughly equal numbers of admissions in both sectors, but in the second and third waves there were higher numbers of admissions in the public sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 17). There have been increased admissions in both sectors since week 19, however a decrease in the number of admissions has been observed in both sectors over the past three weeks.

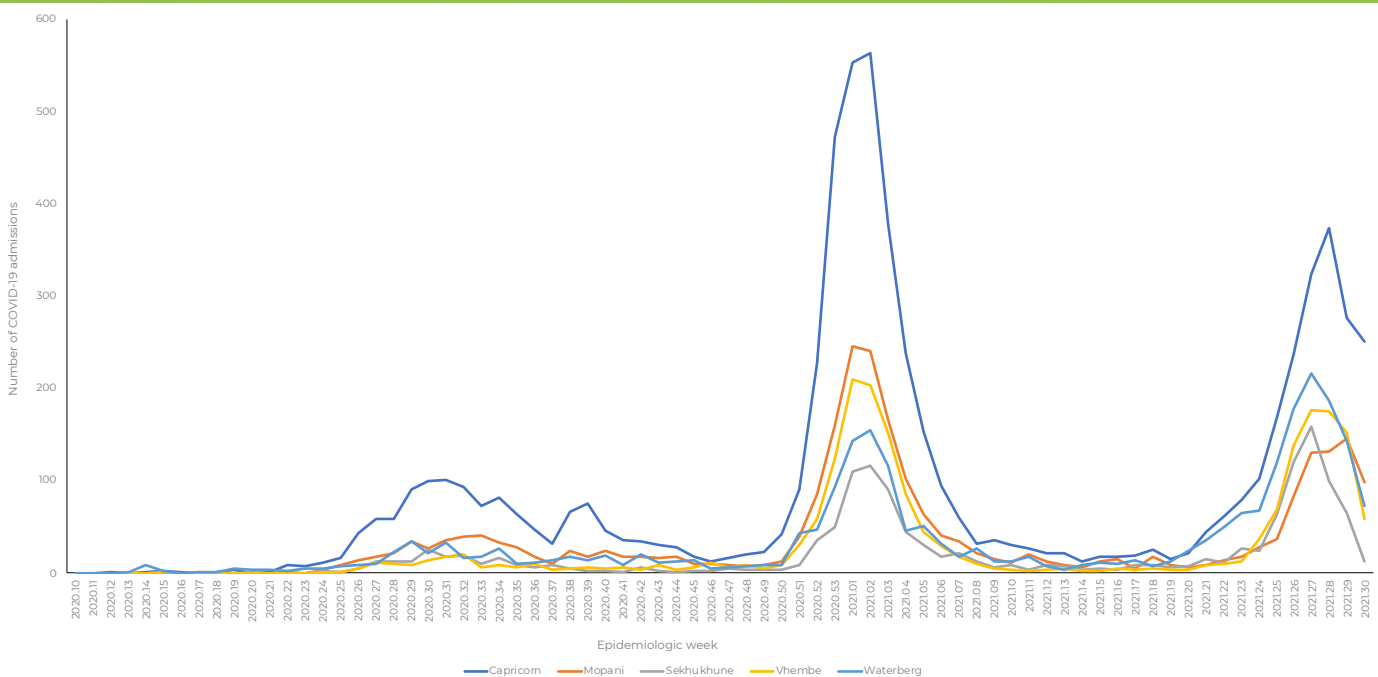


**Figure 17:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-31 July 2021, n=14,849

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in all districts (Figure 18). There have been increases in admissions in all districts, however a decrease in the number of admissions has been observed in all districts over the past two weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Sekhukhune and Waterberg.

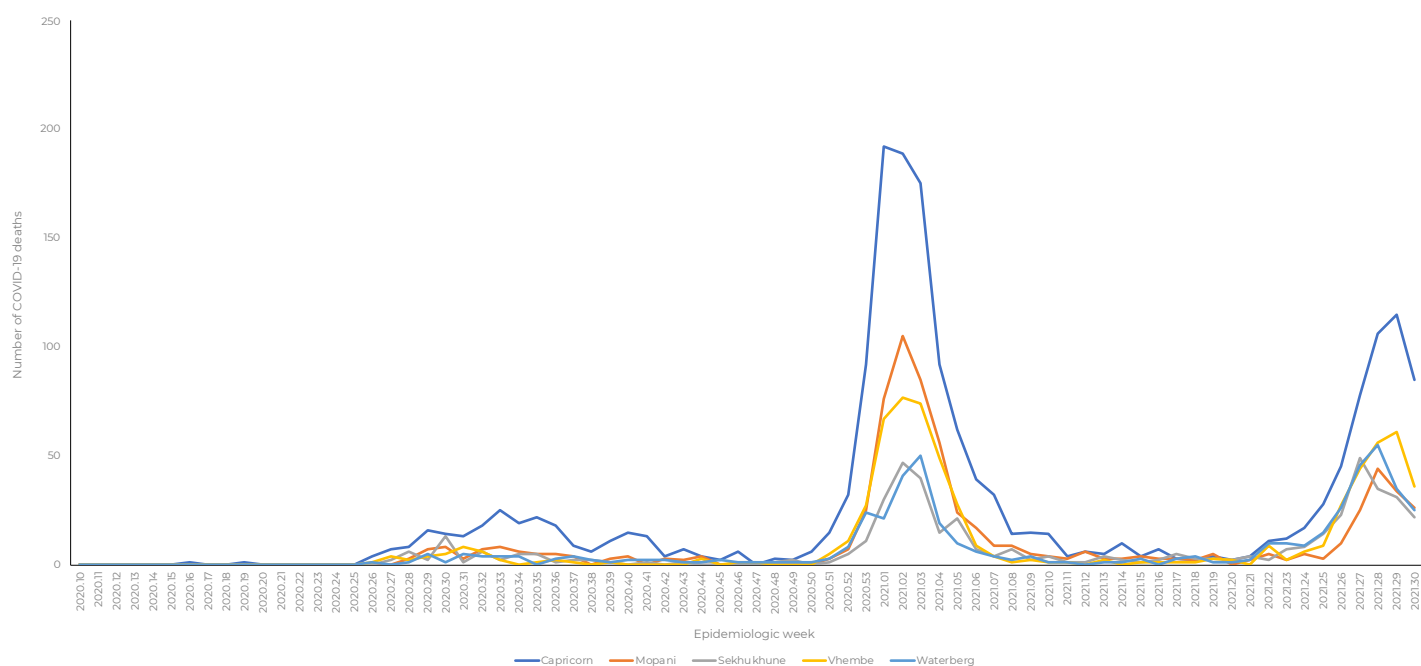


**Figure 18:** Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-31 July 2021, n=14,849

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 19). The numbers of COVID-19 deaths have increased in most districts, however, a decrease in the number of deaths has been observed in all districts over the past two weeks.



**Figure 19:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-31 July 2021, n=4,066

There has been a decrease in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 8).

**Table 8:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 03 July-31 July 2021.

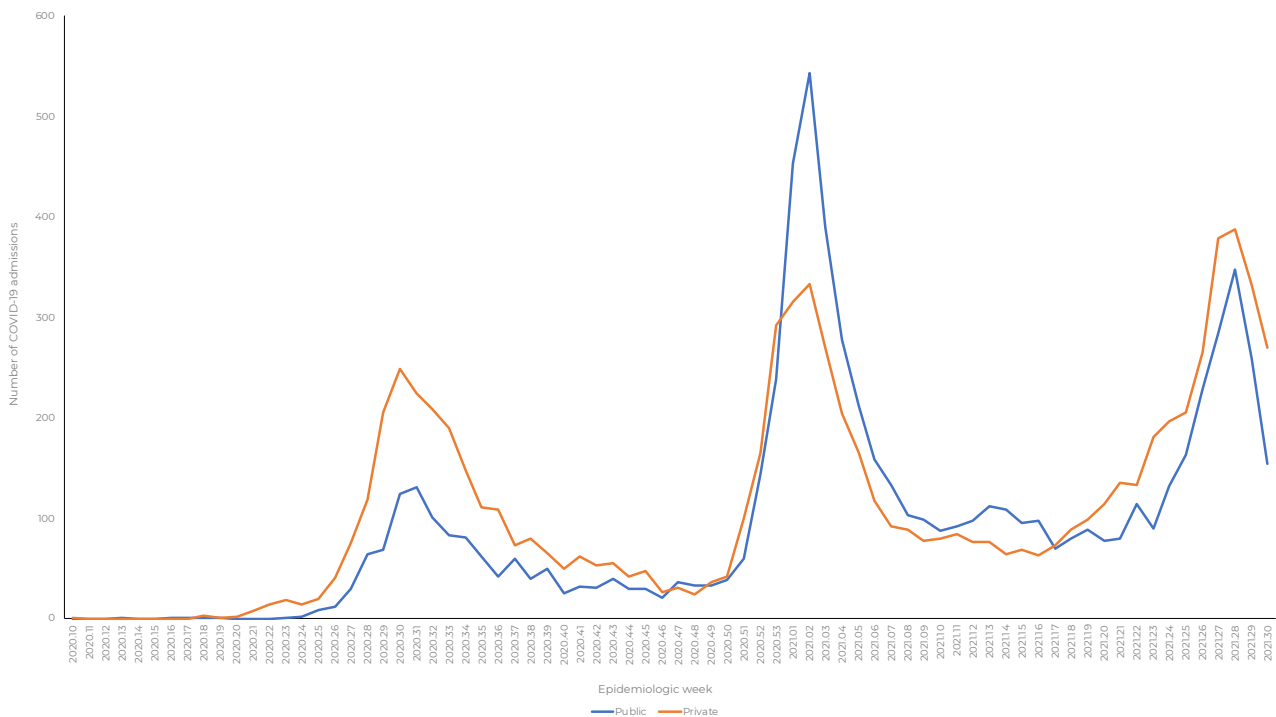
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Capricorn	49.86	37.64	-24.50	13.14	14.29	8.70
Mopani	18.71	17.43	-6.87	4.93	4.29	-13.04
Sekhukhune	18.36	5.57	-69.65	6.00	3.79	-36.90
Vhembe	24.93	15.07	-39.54	7.14	6.93	-3.00
Waterberg	28.71	15.43	-46.27	7.21	4.29	-40.59

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## MPUMALANGA

In the first and third waves there were higher numbers of admissions in the private sector, but in the second wave there were higher numbers of admissions in the public sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 20). An increase in admission in both sectors has been observed since week 16 however a decrease in the number of admissions has been observed in both sectors over the past two weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in the private sector.

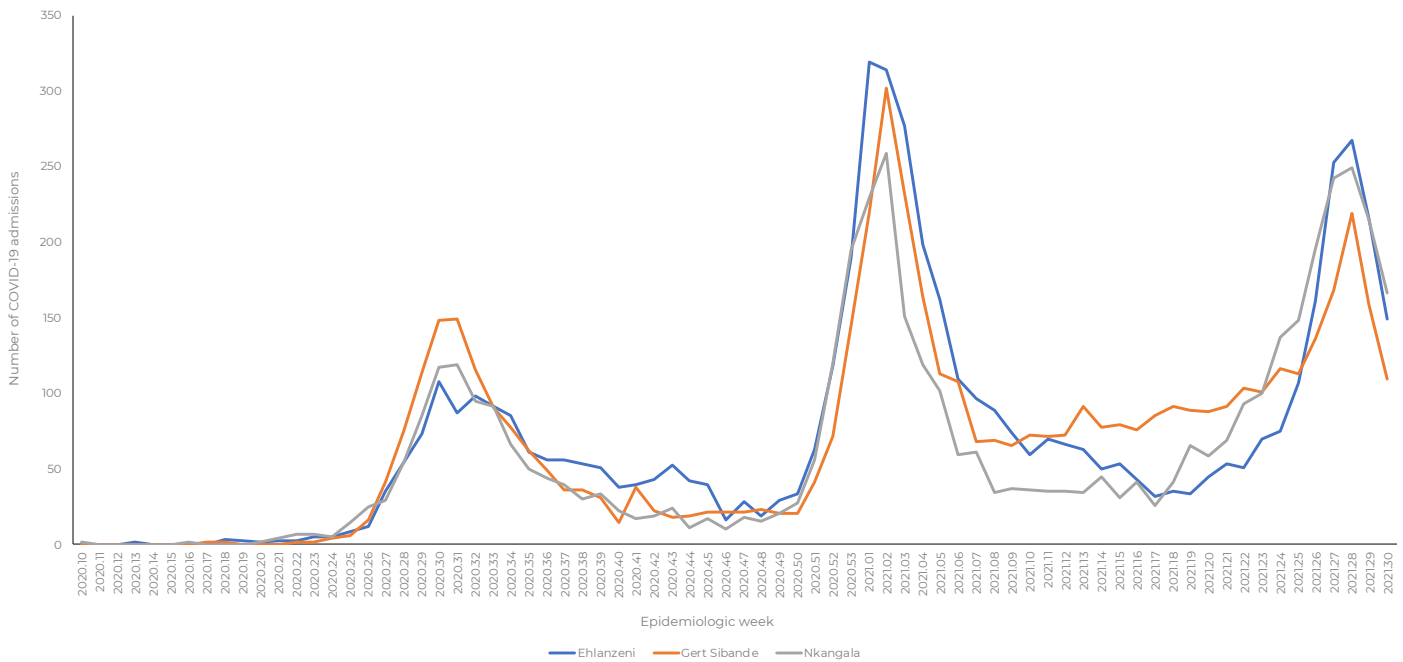


**Figure 20:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-31 July 2021, n=14,982

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in all districts (Figure 21). There have been increases in admissions in all districts since week 17 however a decrease in the number of admissions has been observed in all districts over the past three weeks.

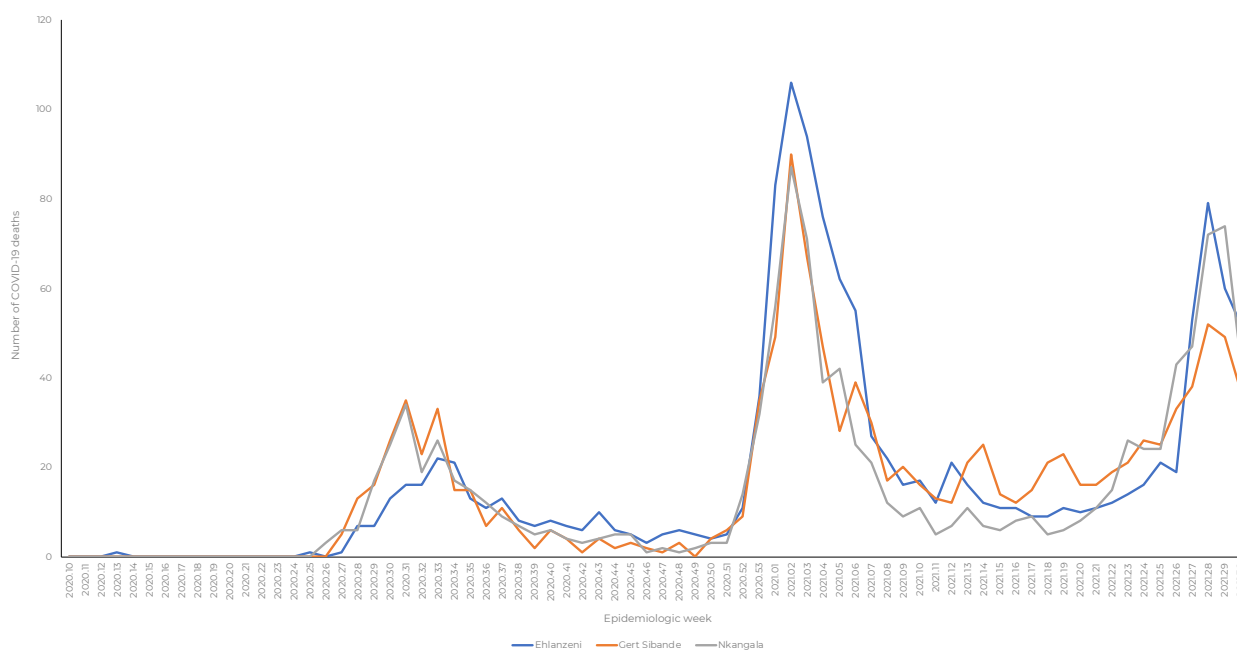


**Figure 21:** Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-31 July 2021, n=14,982

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 22). The numbers of COVID-19 deaths have increased in all districts, however a decrease in the number of deaths has been observed in all districts over the past two weeks.



**Figure 22:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-31 July 2021, n=3,580

There has been a decrease in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 9).

**Table 9:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 03 July-31 July 2021.

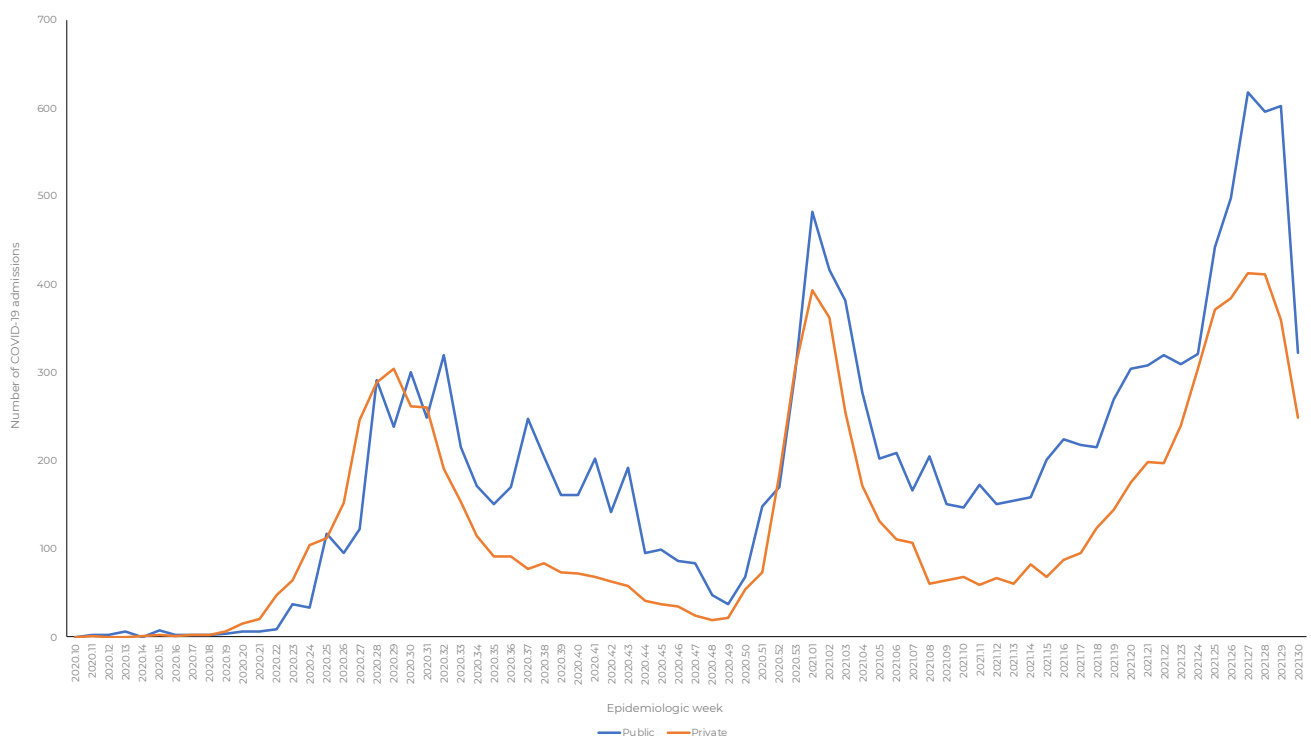
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Ehlanzeni	37.14	26.07	-29.81	9.43	8.00	-15.15
Gert Sibande	27.64	19.14	-30.75	6.43	6.14	-4.44
Nkangala	35.07	27.21	-22.40	8.50	8.43	-0.84

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## NORTH WEST

In all three waves there were higher numbers of admissions in the public sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 23). The numbers of COVID-19 admissions have increased in both sectors since week 10, however a decrease in the number of admissions has been observed in both sectors over the past three weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in both sectors.

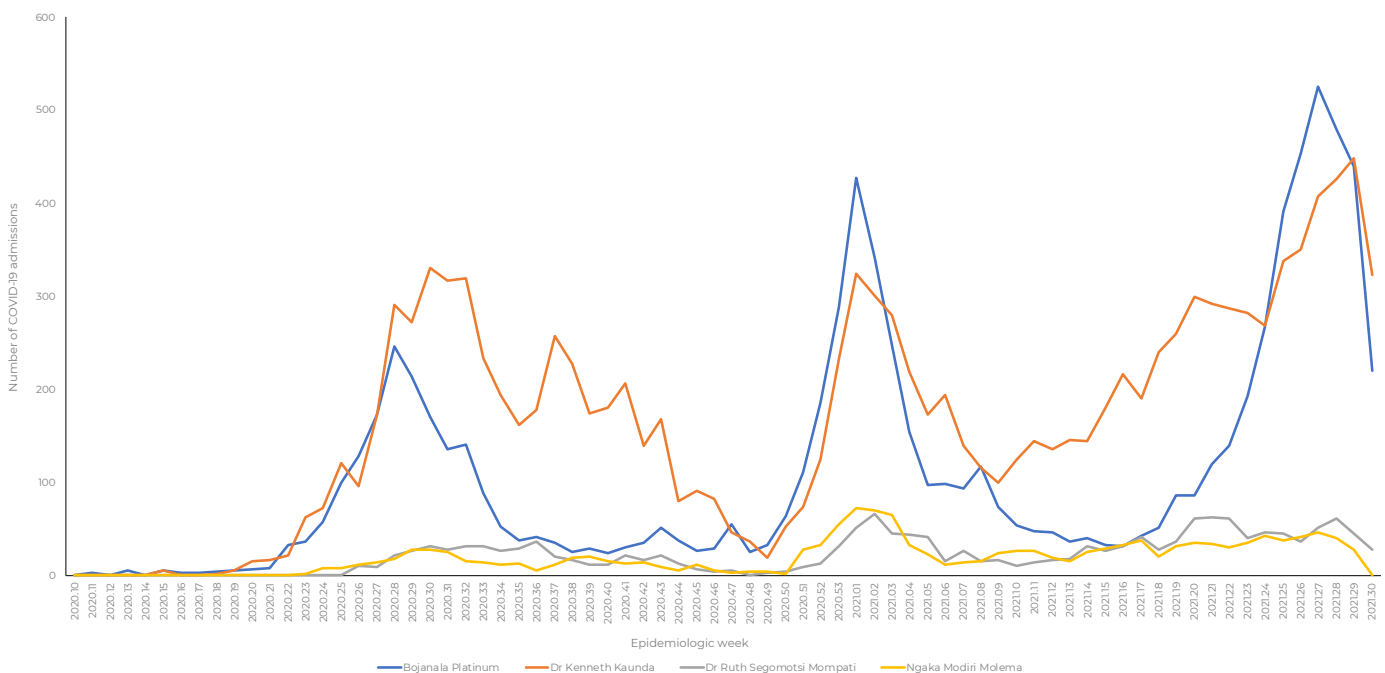


**Figure 23:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-31 July 2021, n=23,699

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in all districts except Dr Kenneth Kaunda (Figure 24). The numbers of COVID-19 admissions have increased in Dr Kenneth Kaunda district since week 9 and in Bojanala Platinum since week 14, however a decrease in the number of admissions has been observed in all districts over the past week. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Bojanala Platinum and Dr Kenneth Kaunda.



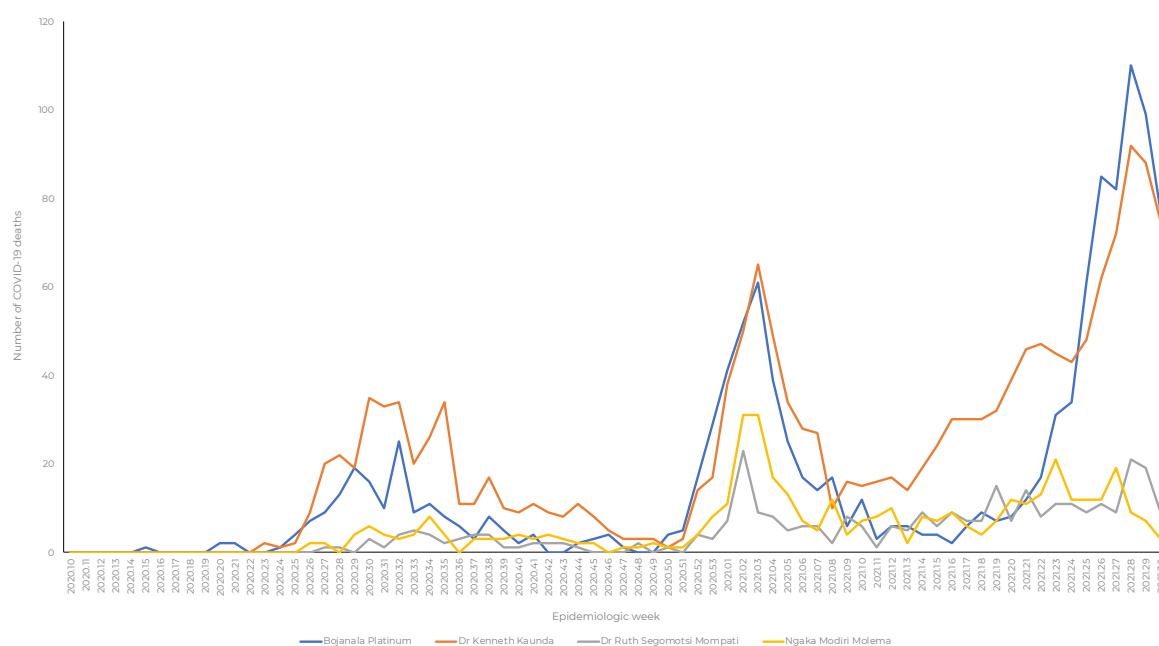
**Figure 24:** Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-31 July 2021, n=23,699



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 25). The numbers of COVID-19 deaths have increased in all districts, particularly Dr Kenneth Kaunda district and Bojanala Platinum, however a decrease in the number of deaths has been observed in all districts over the past two week. Weekly deaths at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Bojanala Platinum and Dr Kenneth Kaunda.



**Figure 25:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-31 July 2021, n=3,526

There has been a decrease in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 10).

**Table 10:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 03 July-31 July 2021.

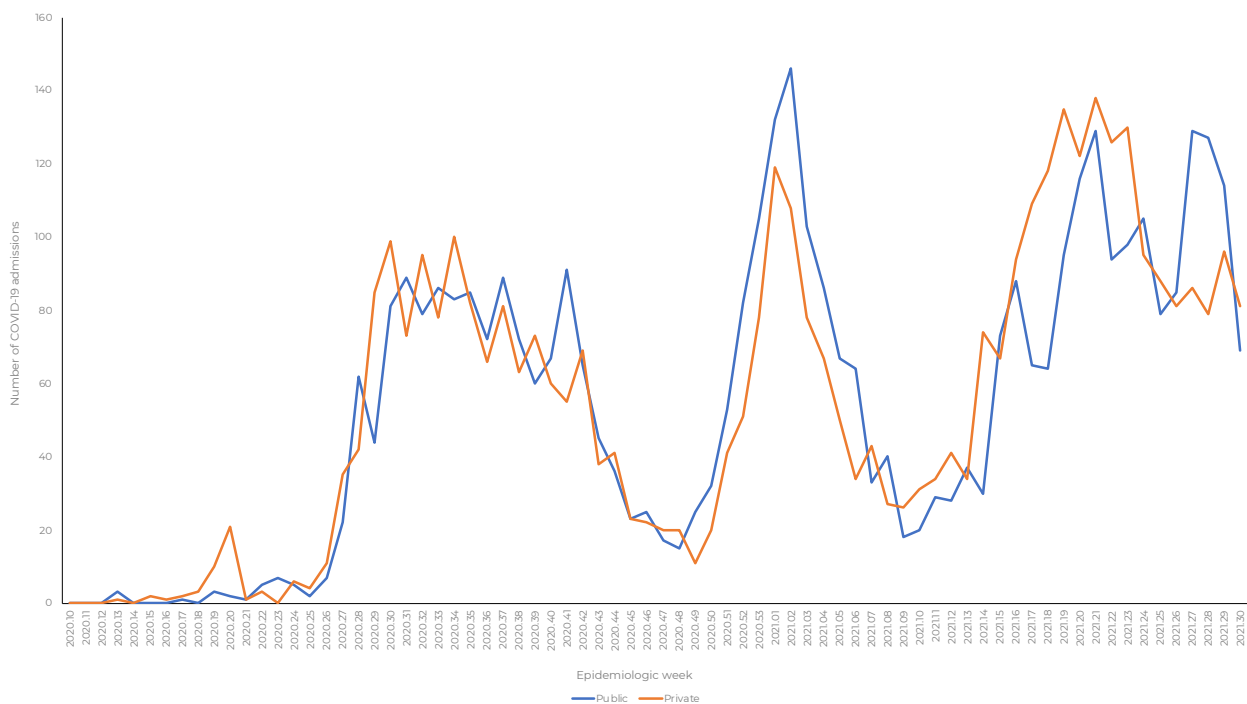
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum	71.86	47.07	-34.49	13.71	12.57	-8.33
Dr Kenneth Kaunda	59.50	55.07	-7.44	11.71	11.57	-1.22
Dr Ruth Segomotsi Mompati	8.00	5.21	-34.82	2.14	2.00	-6.67
Ngaka Modiri Molema	6.21	2.00	-67.82	2.00	0.71	-64.29

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## NORTHERN CAPE

In both first and second waves there were roughly equal numbers of admissions in both sectors, but in the third wave there were higher numbers of admissions in the private sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 26). The numbers of COVID-19 admissions have increased in both sectors since week 9 however a decrease in the number of admissions has been observed in both sectors over the past eight weeks. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the second wave in the private sector.

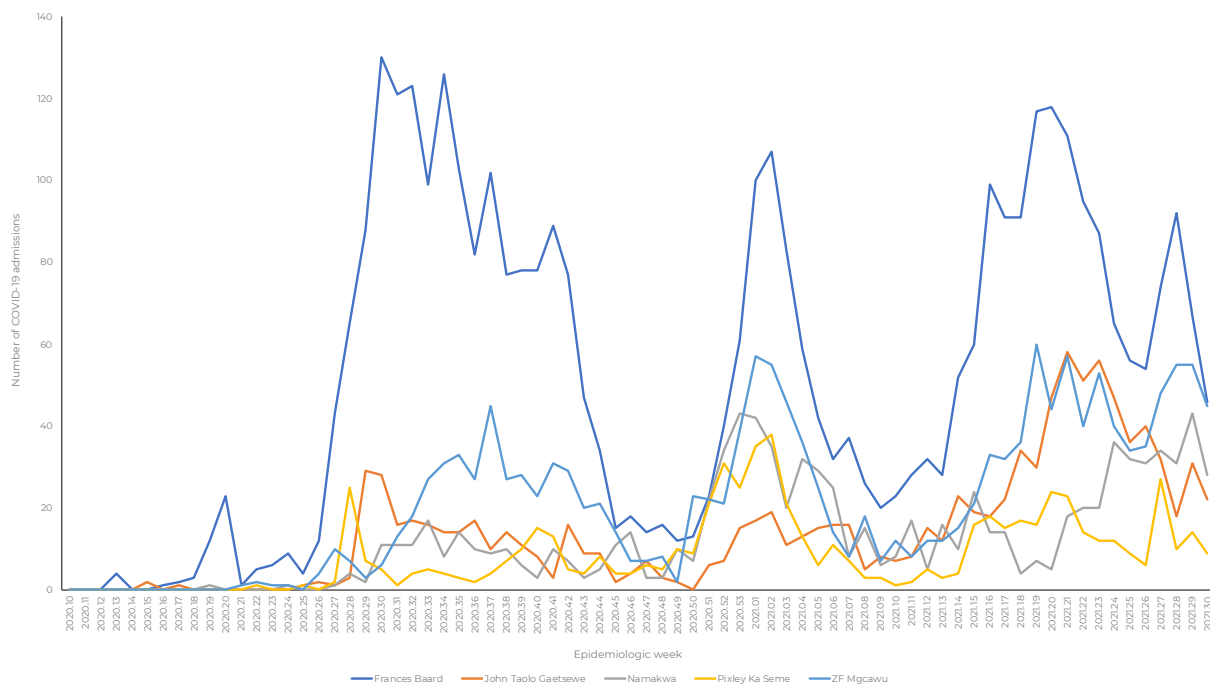


**Figure 26:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-31 July 2021, n=8,000

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly number of admissions during the peak of the first wave in Pixley ka Seme, Namakwa and ZF Mgcawu districts (Figure 27). The numbers of admissions have decreased in all districts over the past eight weeks, however some increases in admissions have observed in the past three weeks. Weekly admissions at the peak of the third wave exceeded the weekly numbers of admissions at the peak of the second wave in Frances Baard, ZF Mgcawu and John Taolo Gaetsewe districts.

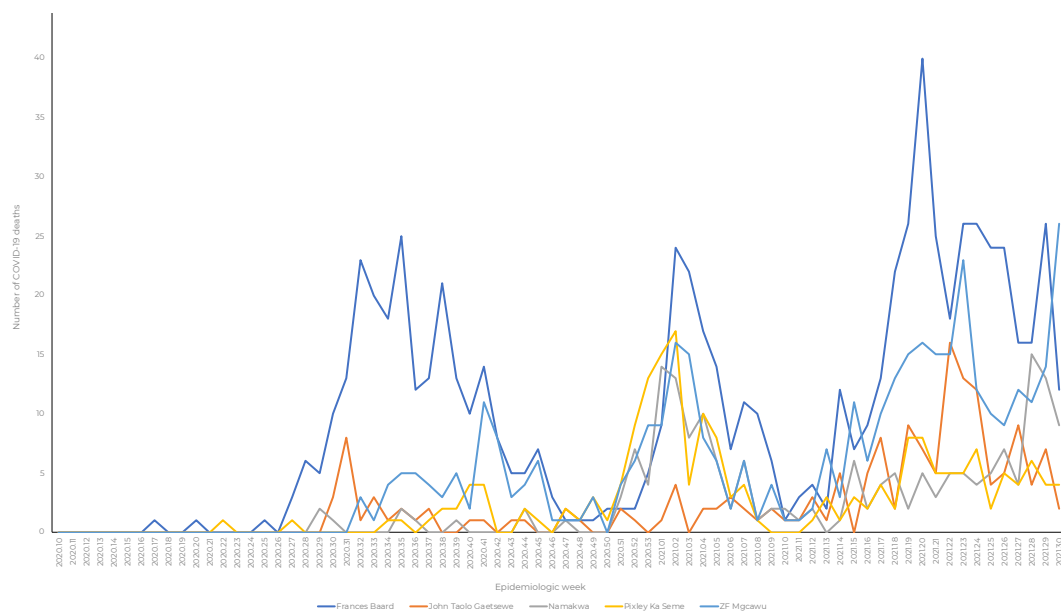


**Figure 27:** Number of reported COVID-19 admissions, by district and epidemiologic week, Northern Cape, 5 March 2020-31 July 2021, n=8,000

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in Pixley ka Seme, Namakwa and ZF Mgcawu districts (Figure 28). The numbers of COVID-19 deaths have increased in all districts, and while there has been some decrease in deaths earlier on, an increase in the number of deaths has been observed in all districts over the past three weeks. Weekly deaths at the peak of the third wave exceeded the weekly numbers of deaths at the peak of the second wave in Frances Baard, John Taolo Gaetsewe and ZF Mgcawu district.



**Figure 28:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020–31 July 2021, n=1,658

There has been an increase in average COVID-19 admissions comparing the previous 14 days and the current 14 days in John Taolo Gaetsewe and Namakwa. The highest percentage change in admissions was in Namakwa (Table 11).

**Table 11:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 03 July–31 July 2021.

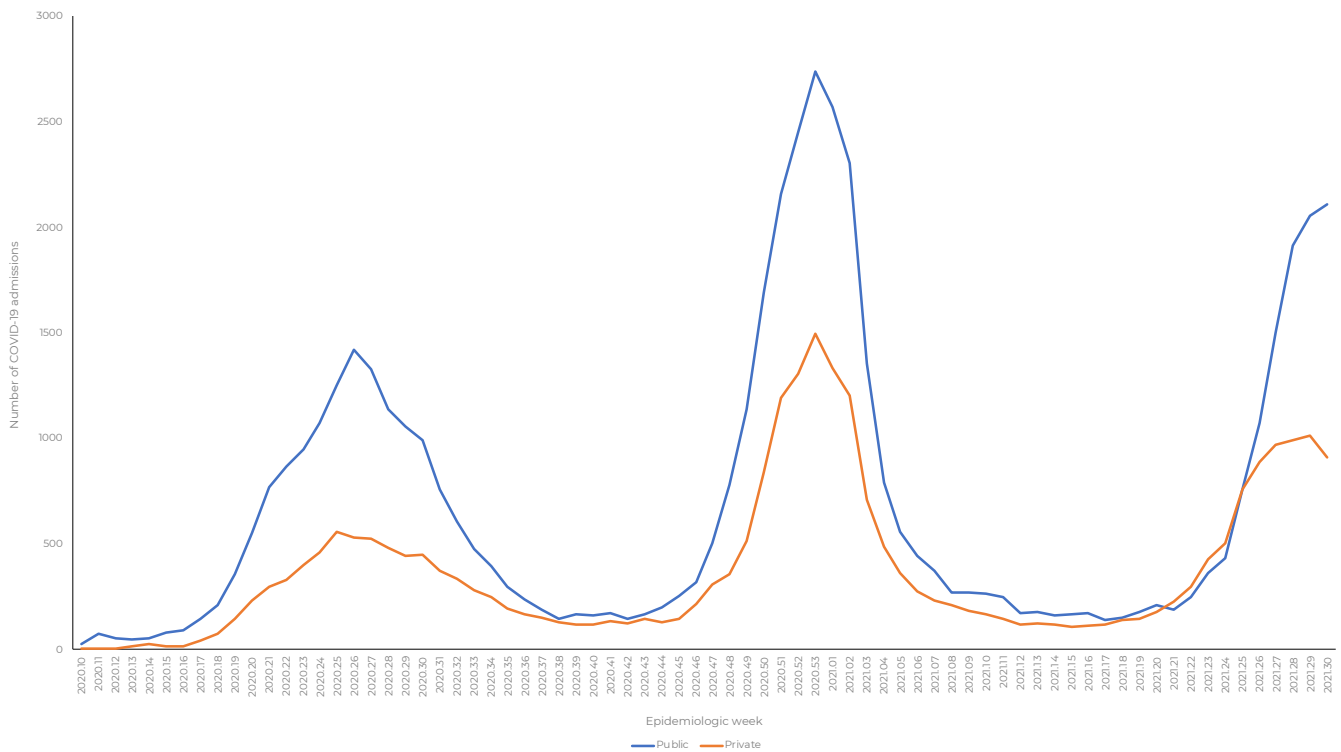
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Frances Baard	11.86	8.07	-31.93	2.29	2.71	18.75
John Taolo Gaetsewe	3.57	3.79	6.00	0.93	0.64	-30.77
Namakwa	4.64	5.07	9.23	1.36	1.57	15.79
Pixley Ka Seme	2.64	1.64	-37.84	0.71	0.57	-20.00
Siyanda	0.00	0.00	0.00	0.00	0.00	0.00
ZF Mgcawu	7.36	7.14	-2.91	1.64	2.86	73.91

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## WESTERN CAPE

In all three waves there were higher numbers of admissions in the public sector. Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 29). There has been an increase in admissions in both sectors since week 17, however a decrease in the number of admissions has been observed in the private sector over the past two weeks while public sector continues to show increase in admissions.

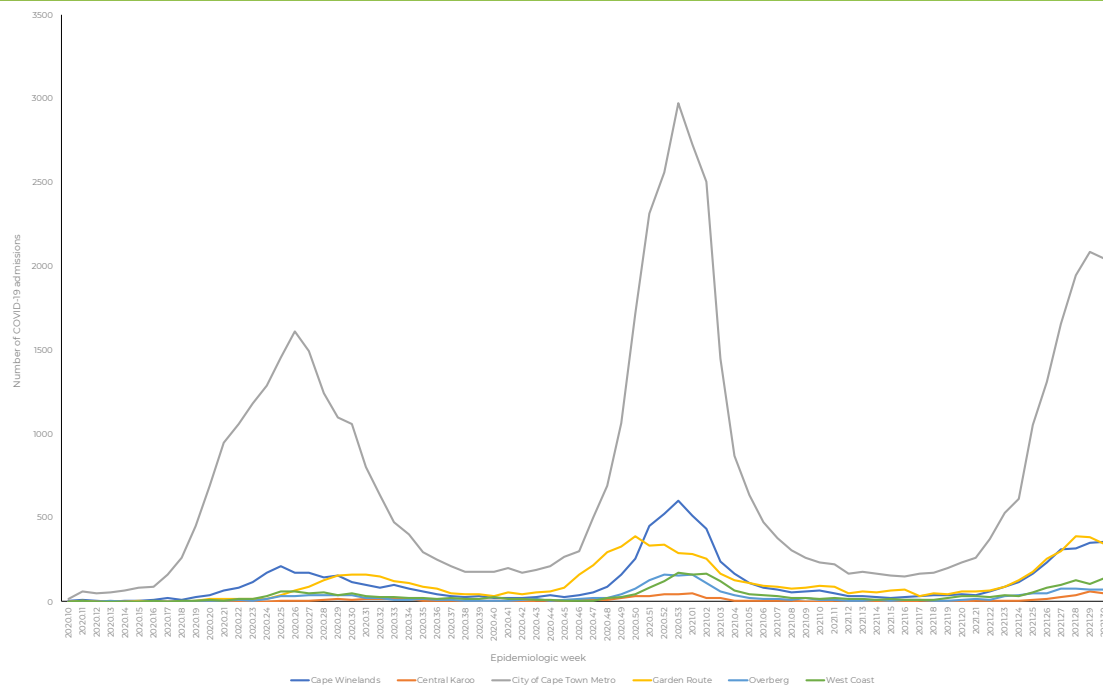


**Figure 29:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-31 July 2021, n=77,625

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in all districts (Figure 30). There have been increases in admissions in all districts, particularly City of Cape Town, however a decrease in the number of admissions has been observed in some districts over the past two weeks.

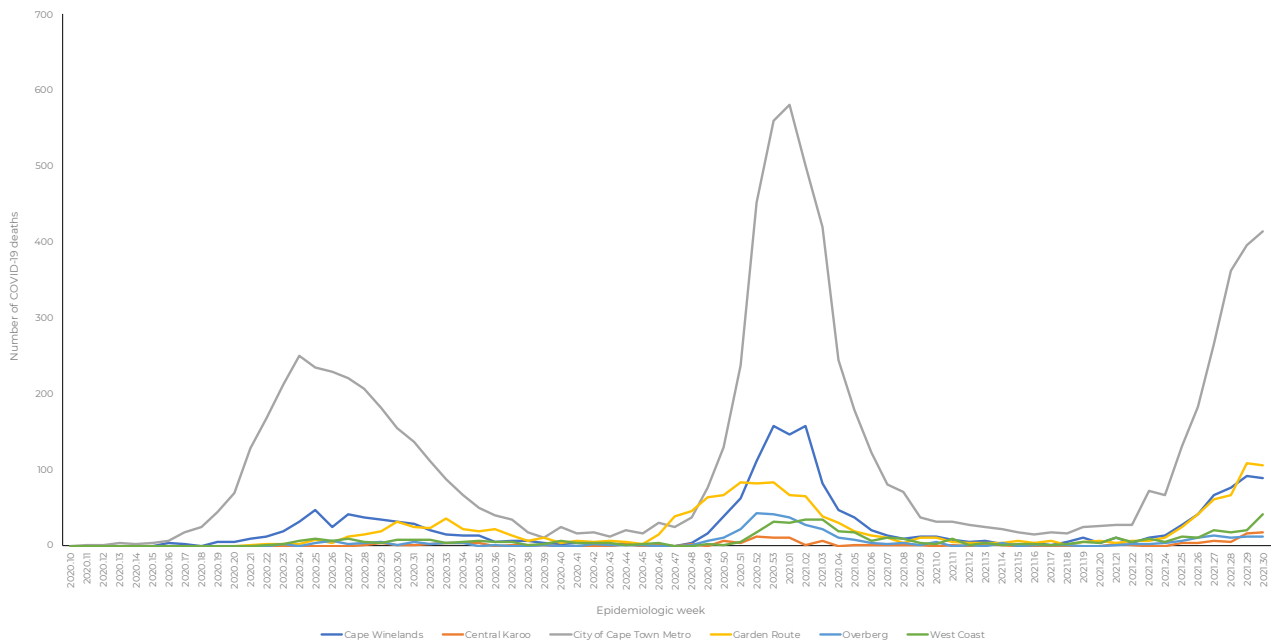


**Figure 30:** Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-31 July 2021, n=77,625

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Weekly deaths at the peak of the second wave exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 31). There have been increases in deaths in all districts.



**Figure 31:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020–31 July 2021, n=13,180

There have been increases in average COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts except Overberg. The highest percentage change in admissions was in Central Karoo (Table 12).

**Table 12:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 03 July–31 July 2021.

District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Cape Winelands	45.00	50.86	13.02	10.29	12.93	25.69
Central Karoo	4.71	7.79	65.15	0.86	2.43	183.33
City of Cape Town Metro	257.43	295.29	14.71	44.86	57.79	28.82
Garden Route	49.43	52.07	5.35	9.07	15.29	68.50
Overberg	11.14	10.43	-6.41	1.71	1.71	0.00
West Coast	16.00	17.71	10.71	2.79	4.36	56.41

## LIMITATIONS

DATCOV now includes reporting from all hospitals with COVID-19 admissions but many hospitals are yet to reach complete submission of historic data. Data quality in a surveillance system is dependent on the information submitted by healthcare institutions. It is not possible for the NICD to verify or check the quality of all these data, however, the NICD has built-in data quality checks. Delays in reporting of admissions and deaths may affect the numbers reported in the most recent week. The National Department of Health have recruited data capturers to support hospitals to improve data submission.

As hospitals reached capacity, admission criteria may change and therefore influence trends and inferences about the progression of the epidemic. DATCOV only reports hospital-based admissions and deaths and therefore does not include deaths occurring outside hospitals. DATCOV now has a module to record out-of-hospital deaths.



## ACKNOWLEDGEMENTS

All public and private sector hospitals submitting data to DATCOV

Private hospital groups submitting data to DATCOV:

- Netcare
- Life Healthcare
- Mediclinic Southern Africa
- National Hospital Network (NHN)
- Clinix Health Group
- Lenmed
- Joint Medical Holdings (JMH)

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## APPENDIX

**Table 13:** Percentage average change in hospital admissions over 14 days, by district, South Africa, 17 July-31 July 2021.

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	1890	227.10	32	3.85	-17.95
	Amathole	2443	305.68	19	2.38	-26.92
	Buffalo City Metro	7959	993.79	76	9.49	-21.65
	Chris Hani	3607	495.70	57	7.83	-19.72
	Joe Gqabi	833	241.47	17	4.93	-26.09
	Nelson Mandela Bay Metro	12952	1067.71	237	19.54	-11.24
	O R Tambo	3557	232.15	40	2.61	-31.03
	Sarah Baartman	2269	468.98	94	19.43	-18.26
Free State	Fezile Dabi	2530	495.96	39	7.65	-39.06
	Lejweleputswa	4566	698.59	107	16.37	-13.71
	Mangaung Metro	10368	1190.47	173	19.86	-13.07
	Thabo Mofutsanyana	3850	503.39	75	9.81	-44.03
	Xhariep	474	366.18	4	3.09	-69.23
Gauteng	City of Johannesburg Metro	42317	721.33	927	15.80	-39.69
	City of Tshwane Metro	29957	803.33	787	21.10	-41.44
	Ekurhuleni Metro	24821	623.30	472	11.85	-52.61
	Sedibeng	7199	753.41	130	13.61	-55.48
	West Rand	10166	1064.80	245	25.66	-31.56
KwaZulu-Natal	Amajuba	3323	582.45	67	11.74	-37.38
	eThekweni Metro	25975	652.44	367	9.22	-17.34
	Harry Gwala	1704	331.50	28	5.45	-37.78
	iLembe	2389	343.97	29	4.18	-3.33
	King Cetshwayo	6226	641.41	116	11.95	-10.08
	Ugu	3692	460.51	67	8.36	-18.29
	uMgungundlovu	7620	662.93	220	19.14	-13.04

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	952	138.59	23	3.35	-46.51
	Umzinyathi	1244	219.18	43	7.58	-35.82
	UThukela	2309	323.29	73	10.22	-5.19
	Zululand	1404	159.40	77	8.74	0.00
Limpopo	Capricorn	6422	491.00	277	21.18	-9.18
	Mopani	2566	216.56	106	8.95	-34.16
	Sekhukhune	1408	118.29	13	1.09	-81.16
	Vhembe	2062	144.48	65	4.55	-59.63
	Waterberg	2481	334.27	85	11.45	-49.40
Mpumalanga	Ehlanzeni	5292	289.38	152	8.31	-33.62
	Gert Sibande	5107	411.14	118	9.50	-33.33
	Nkangala	4613	286.72	179	11.13	-20.09
North West	Bojanala Platinum	8236	427.14	225	11.67	-50.77
	Dr Kenneth Kaunda	12475	1563.84	345	43.25	-29.74
	Dr Ruth Segomotsi Mompati	1625	343.49	30	6.34	-41.18
	Ngaka Modiri Molema	1425	156.62	0	0.00	-100.00
Northern Cape	Frances Baard	3870	932.73	51	12.29	-32.89
	John Taolo Gaetsewe	1043	384.19	25	9.21	-34.21
	Namakwa	931	805.27	34	29.41	-27.66
	Pixley Ka Seme	637	302.06	10	4.74	-28.57
	ZF Mgcawu	1570	560.91	48	17.15	-23.81
Western Cape	Cape Winelands	8905	946.07	503	53.44	-2.71
	Central Karoo	804	1070.39	63	83.87	-17.11
	City of Cape Town Metro	56493	1226.78	3108	67.49	-6.24
	Garden Route	8639	1385.21	450	72.15	-15.25
	Overberg	2175	725.22	103	34.34	-6.36
	West Coast	2875	623.90	180	39.06	19.21

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 30 2021

## APPENDIX

**Table 14:** Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-31 July 2021.

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	2788	3274	15	6077	110	113	2	225
5-9	743	896	4	1643	15	14	0	29
10-14	1212	1147	0	2359	42	35	0	77
15-19	3617	1889	3	5509	92	90	0	182
20-24	5959	2965	5	8929	215	161	0	376
25-29	10217	4575	9	14801	497	307	0	804
30-34	13666	7871	5	21542	857	690	0	1547
35-39	15113	11098	15	26226	1247	1143	3	2393
40-44	14494	12977	12	27483	1578	1646	1	3225
45-49	16784	16352	11	33147	2395	2482	1	4878
50-54	20089	18586	7	38682	3308	3461	2	6771
55-59	22245	20055	19	42319	4803	4733	9	9545
60-64	19718	18060	18	37796	5273	5465	5	10743
65-69	16650	14965	20	31635	5397	5060	6	10463
70-74	13732	12360	20	26112	4653	4641	6	9300
75-79	10099	8427	9	18535	3630	3461	3	7094
80-84	7546	5266	10	12822	2956	2307	4	5267
85-89	3880	2473	2	6355	1572	1168	0	2740
90-94	1703	830	1	2534	784	435	0	1219
>=95	512	281	2	795	233	115	0	348
Unknown	913	848	42	1803	60	86	0	146
<b>Total</b>	<b>201680</b>	<b>165195</b>	<b>229</b>	<b>367104</b>	<b>39717</b>	<b>37613</b>	<b>42</b>	<b>77372</b>