

COVID-19 HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 24 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 19 June 2021.

HIGHLIGHTS

- As of 19 June 2021, 291,476 COVID-19 admissions and 58,804 in-hospital deaths were reported from 656 facilities (399 public-sector and 257 private-sector) in all nine provinces of South Africa.
- Increases in admissions in Gauteng, Northern Cape, North West, Free State and Western Cape provinces have been observed and these provinces have reached the case threshold for the third wave. Increased admissions have also been observed in the past four weeks in Eastern Cape, Limpopo, Mpumalanga and KwaZulu-Natal. In Free State and Northern Cape, sustained decreases in admissions have been observed for three weeks.
- The weekly numbers of admissions in the private sector in the third wave have surpassed the peak of admissions in the second wave in Free State and Northern Cape.

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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 19 June 2021, a total of 656 facilities submitted data on hospitalised COVID-19 cases, 399 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 2020-19 June 2021

Name of province	Public Sector	Private Sector
Eastern Cape	85	18
Free State	35	20
Gauteng	39	94
KwaZulu-Natal	70	46
Limpopo	41	7
Mpumalanga	31	9
North West	17	13
Northern Cape	22	8
Western Cape	59	42
South Africa	399	257

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RESULTS

Epidemiological and geographic trends in admissions

From 5 March 2020 to 19 June 2021, a total of 291,476 COVID-19 admissions were reported from 656 facilities in all nine provinces of South Africa. South Africa has entered the third wave. Since week 14 2021, numbers of COVID-19 admissions have increased particularly in the private sector (Figure 1). Decreases in the most recent week may reflect delays in data submission.

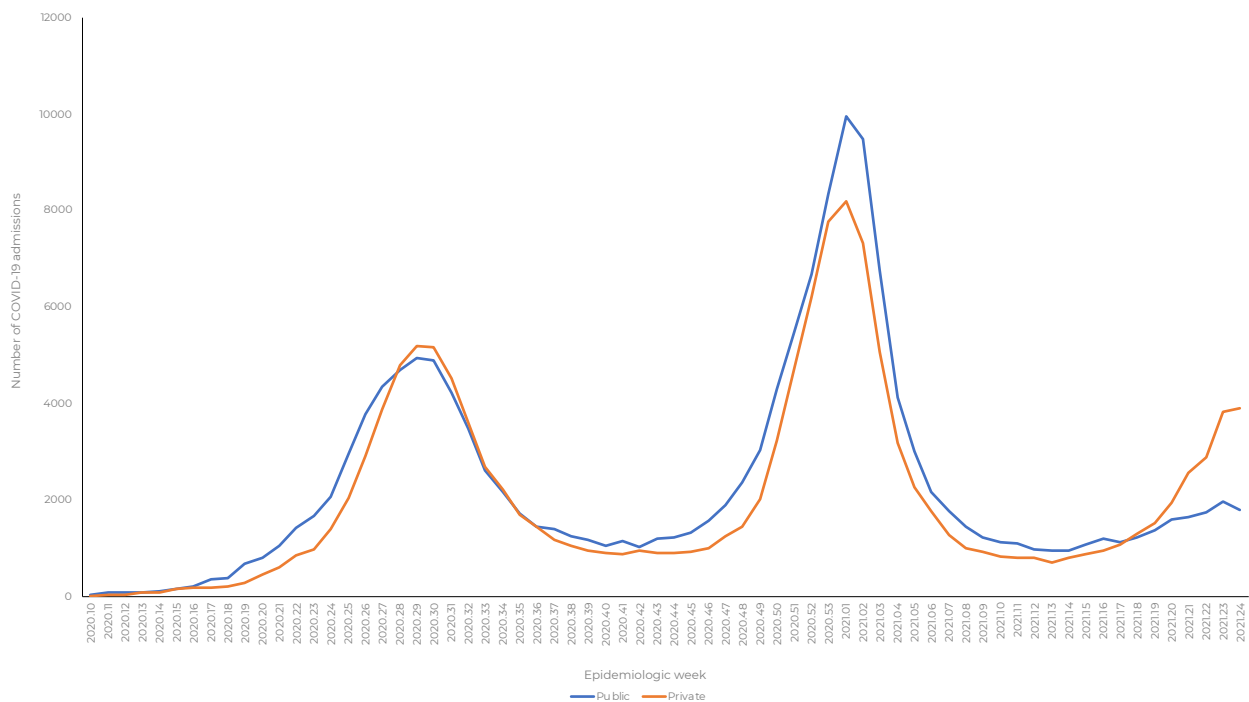


Figure 1. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-19 June 2021, n=291,476

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The majority of admissions were recorded in four provinces, Gauteng 81,904 (28%), Western Cape 62,037 (21%), Eastern Cape 32,331 (11%) and KwaZulu-Natal 50,379 (17%) provinces. Numbers of COVID-19 admissions have increased in all provinces (Figures 2a and 2b). Reductions in the most recent week may be as a result of delayed reporting.

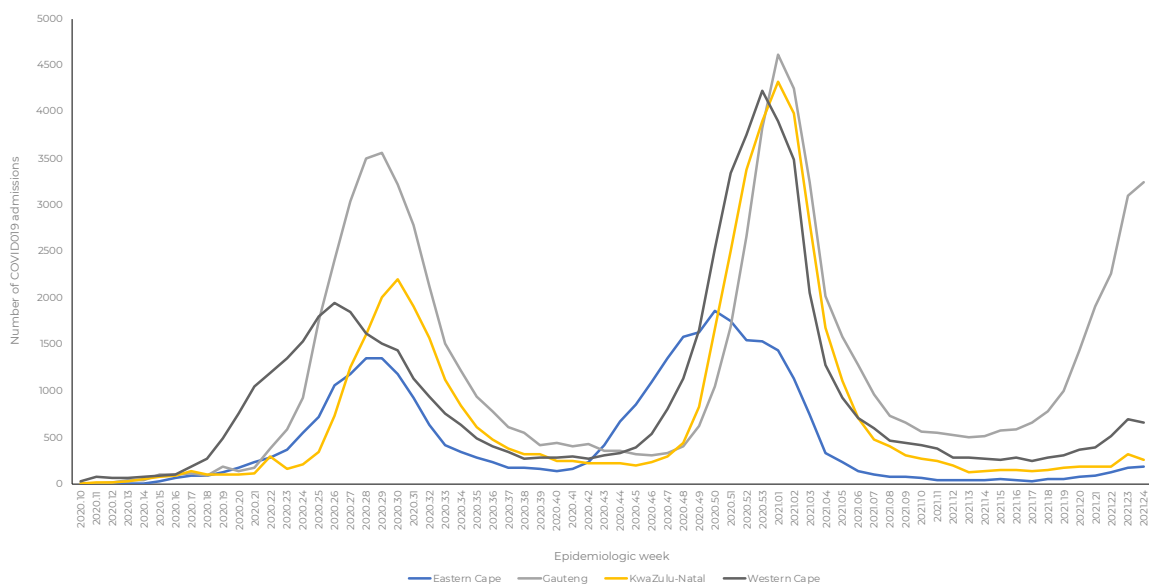


Figure 2a. Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-19 June 2021, n=291,476

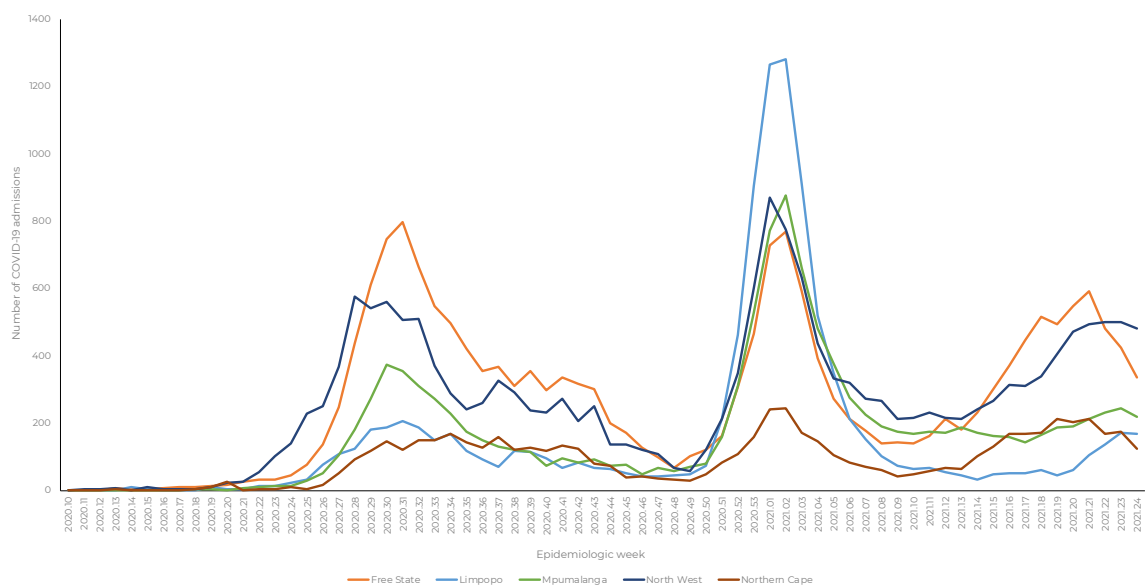


Figure 2b. Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-19 June 2021, n=291,476

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EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

The number of deaths has increased in both sectors in the third wave (Figure 3).

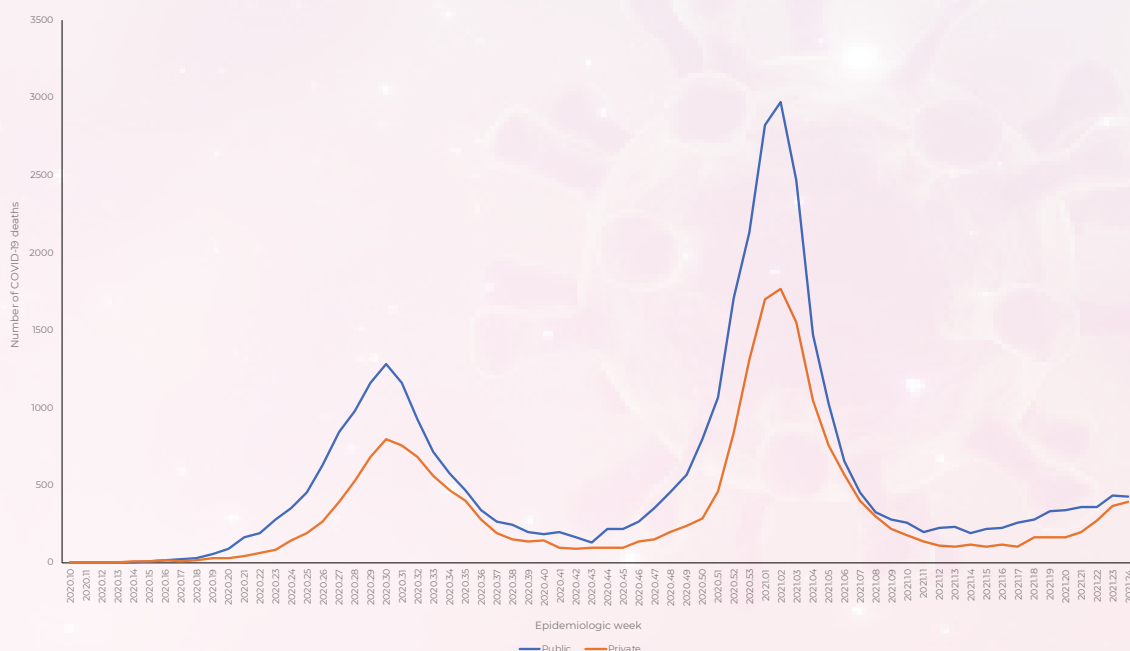


Figure 3. Number of in-hospital COVID-19 in-hospital deaths reported per week by health sector and epidemiologic week, South Africa, 5 March 2020-19 June 2021, n=58,804

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Most deaths were reported in Gauteng 14,993 (25%), KwaZulu-Natal 11,120 (19%), Western Cape 10,342 (18%) and Eastern Cape 9,535 (16%). The numbers of COVID-19 deaths have increased in Gauteng, Northern Cape, North West and Free State, with small increases also noted in other provinces (Figures 4a and 4b).

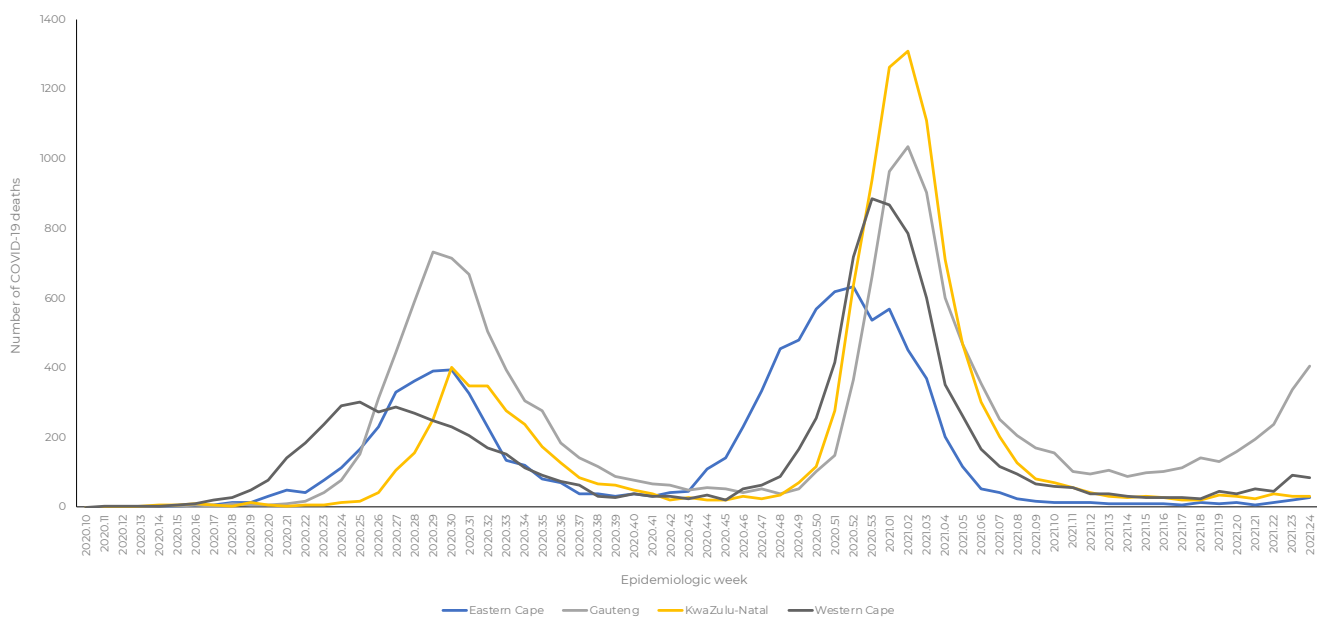


Figure 4a. Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-19 June 2021, n=58,804

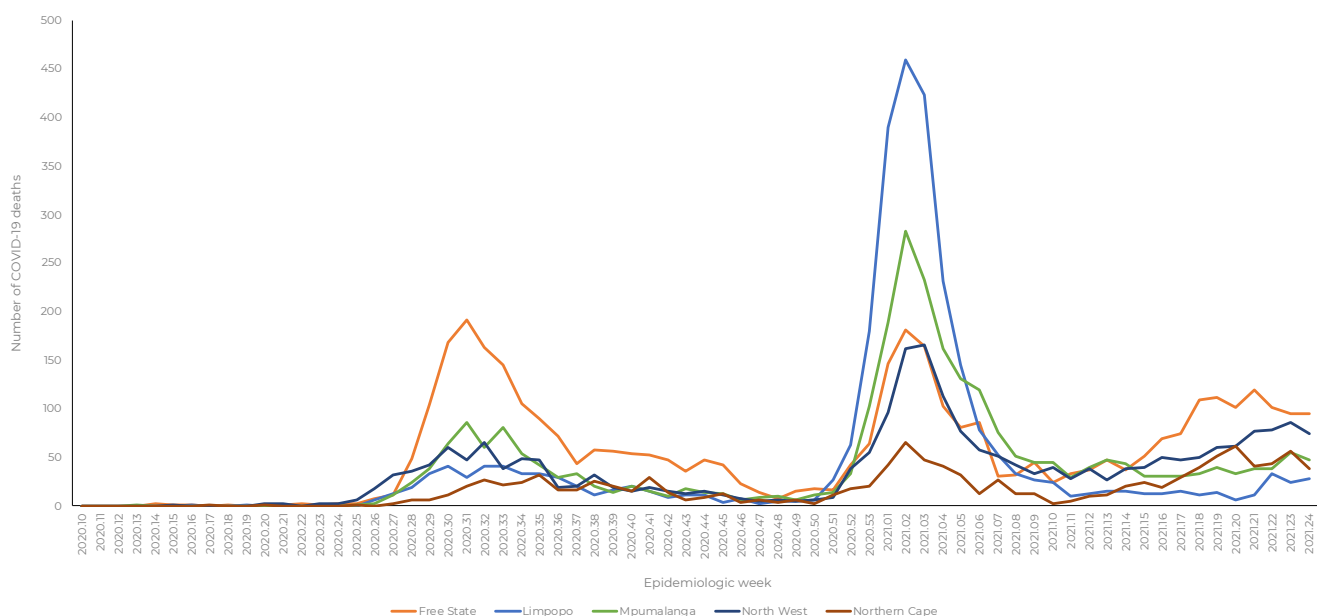


Figure 4b. Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-19 June 2021, n=58,804

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The cumulative incidence risks of COVID-19 admissions and in-hospital deaths were highest in Western Cape, Eastern Cape and Free State 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 2020-19 June 2021

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative Admissions / 100,000	Cumulative deaths	Cumulative deaths / 100,000
Eastern Cape	6734001	32331	480.1	9535	141.6
Free State	2928903	18717	639.0	3740	127.7
Gauteng	15488137	81,904	528.8	14993	96.8
KwaZulu-Natal	11531628	50379	436.9	11118	96.4
Limpopo	5852553	10297	175.9	2830	48.4
Mpumalanga	4679786	11567	247.2	2727	58.3
North West	4108816	18,128	441.2	2365	57.6
Northern Cape	1292786	6,116	473.1	1152	89.1
Western Cape	7005741	62,037	885.5	10341	147.6
South Africa	59622350	291,476	488.9	58,801	98.6

*StatsSA mid-year population estimates 2020

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PROVINCIAL TRENDS

There was an increase in the average COVID-19 admissions comparing the previous 14 days and the current 14 days in Eastern Cape, Gauteng, KwaZulu-Natal, Limpopo, Mpumalanga and Western Cape (Table 3). Decreases in the most recent week may in part reflect delays in data submission. There were 19 of 52 (37%) districts across the country that reported increased admissions over the previous 14 days, Buffalo City, Nelson Mandela Metro, O R Tambo and Sarah Baartman (Eastern Cape), City of Tshwane Metro, Ekurhuleni Metro and West Rand (Gauteng), iLembe, King Cetshwayo, Ugu, uMkhanyakude and Zululand (KwaZulu-Natal), Capricorn, Mopani and Vhembe (Limpopo), Nkangala (Mpumalanga), Bojanala Platinum (North West), Namakwa (Northern Cape) and Garden Route (Western Cape) (Appendix 1).

Table 3. Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, South Africa, 22 May-19 June 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	14.64	24.71	68.78	1.29	3.29	155.56
Free State	76.64	54.29	-29.17	15.71	13.57	-13.64
Gauteng	297.14	452.14	52.16	30.71	53.00	72.56
KwaZulu-Natal	26.43	41.36	56.49	4.43	4.29	-3.23
Limpopo	17.21	24.36	41.49	3.21	3.79	17.78
Mpumalanga	31.57	33.14	4.98	5.50	7.29	32.47
North West	71.14	70.07	-1.51	11.14	11.50	3.21
Northern Cape	27.36	21.50	-21.41	6.07	6.79	11.76
Western Cape	64.93	97.14	49.61	6.86	12.36	80.21
South Africa	14.64	24.71	68.78	1.29	3.29	155.56

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

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EASTERN CAPE

In both 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 the private sector since week 19 and in the public sector since week 21 (Figure 5).

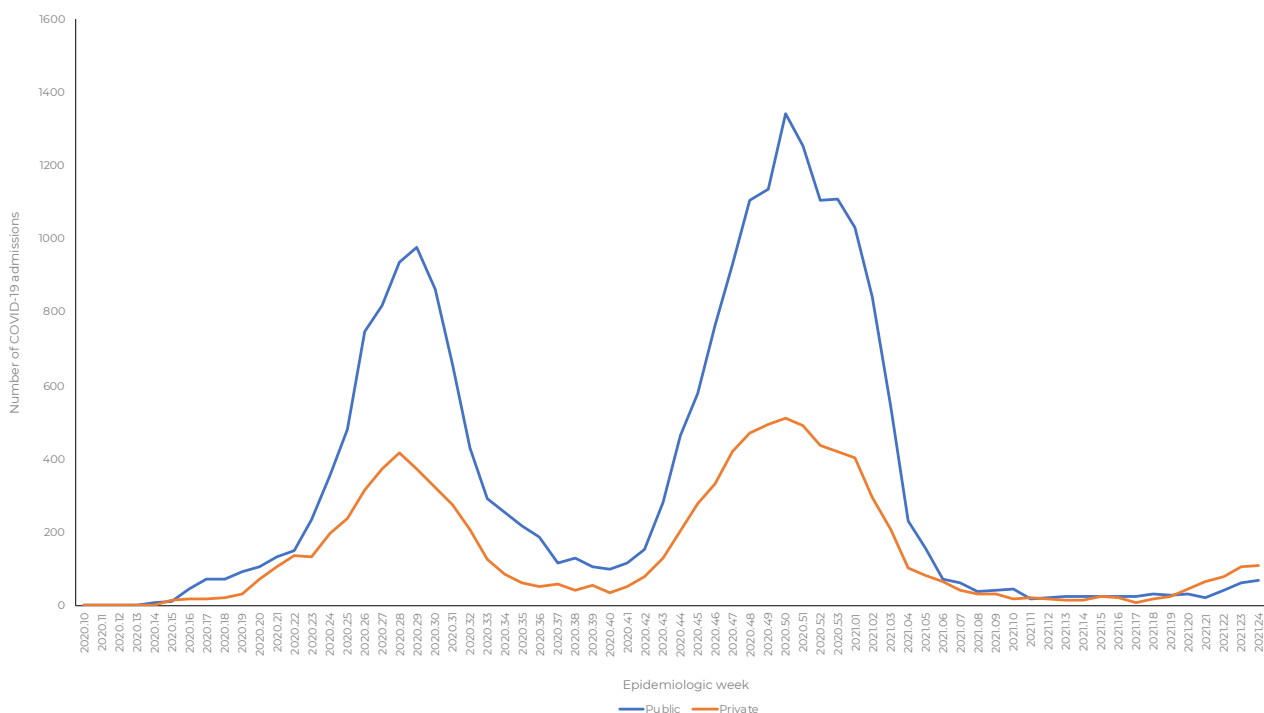


Figure 5: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-19 June 2021, n=32,331

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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 a few districts over the past five weeks, with highest increase in Nelson Mandela Metro.

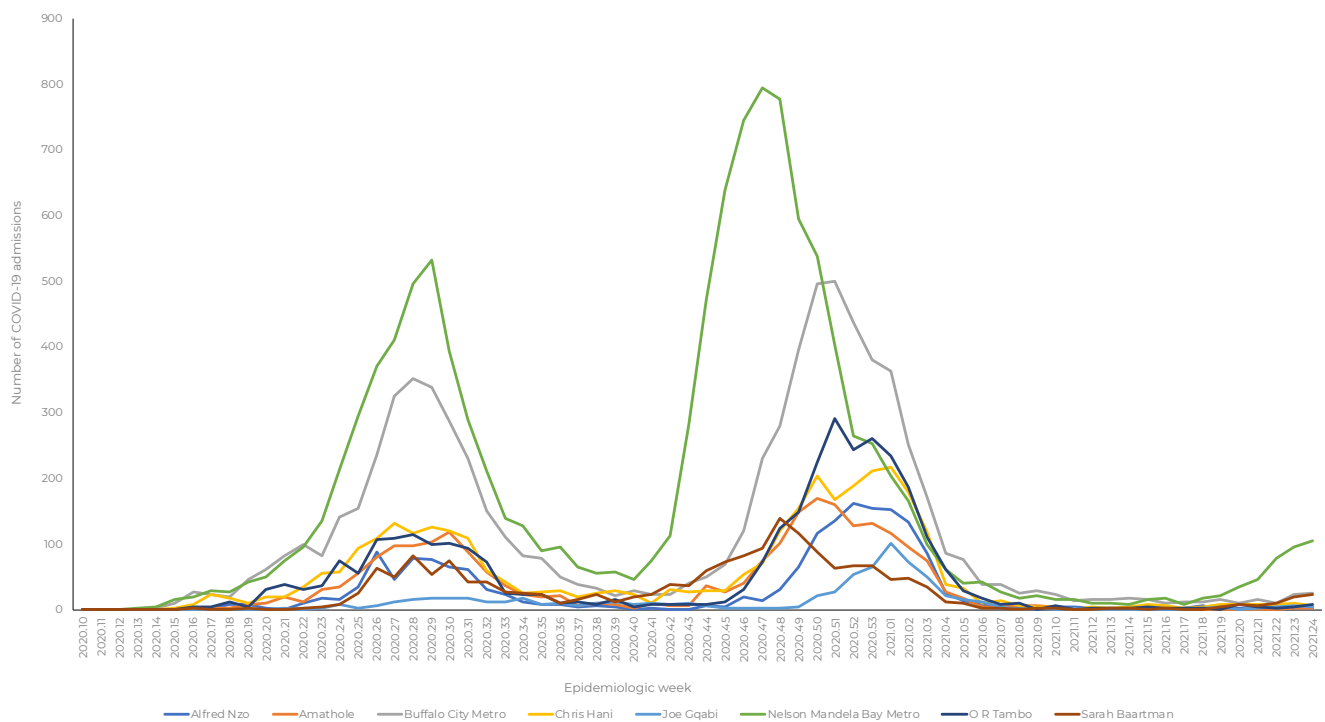


Figure 6. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-19 June 2021, n=32,331

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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 small increases in deaths in Nelson Mandela Metro and Sarah Baartman districts.

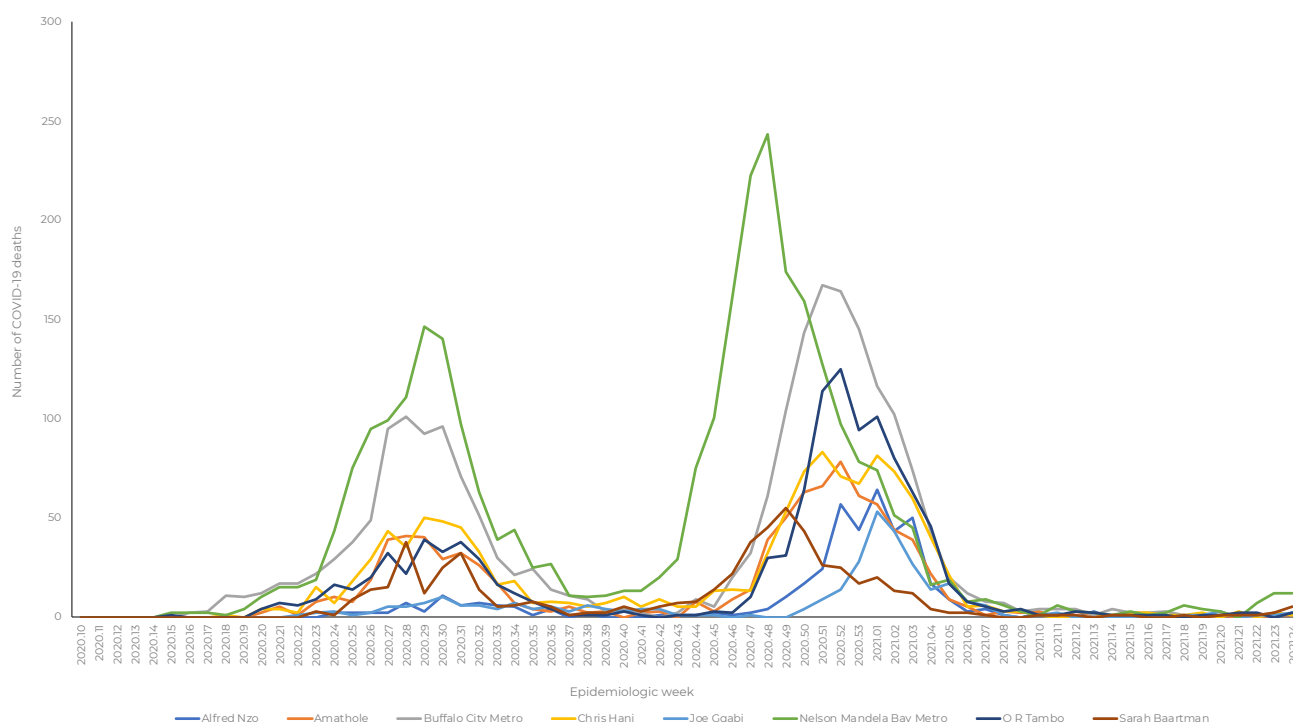


Figure 7. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-19 June 2021, n=9,535

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There was an increase in the average COVID-19 admissions comparing the previous 14 days and the current 14 days in Buffalo City Metro, Joe Gqabi, Nelson Mandela Bay, O R Tambo 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, 22 May-19 June 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	0.43	0.43	0.00	0.00	0.14	0.00
Amathole	0.00	0.43	0.00	0.00	0.14	0.00
Buffalo City Metro	1.86	3.50	88.46	0.07	0.21	200.00
Chris Hani	1.21	1.21	0.00	0.21	0.21	0.00
Joe Gqabi	0.50	0.79	57.14	0.07	0.21	200.00
Nelson Mandela Bay	8.93	14.36	60.80	0.50	1.71	242.86
O R Tambo	0.50	0.86	71.43	0.29	0.14	-50.00
Sarah Baartman	1.21	3.14	158.82	0.14	0.50	250.00

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FREE STATE

In the first wave 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 sustained decreases for the past 3 weeks. The weekly numbers of admissions in the private sector in the third wave have surpassed the peak of the second wave.

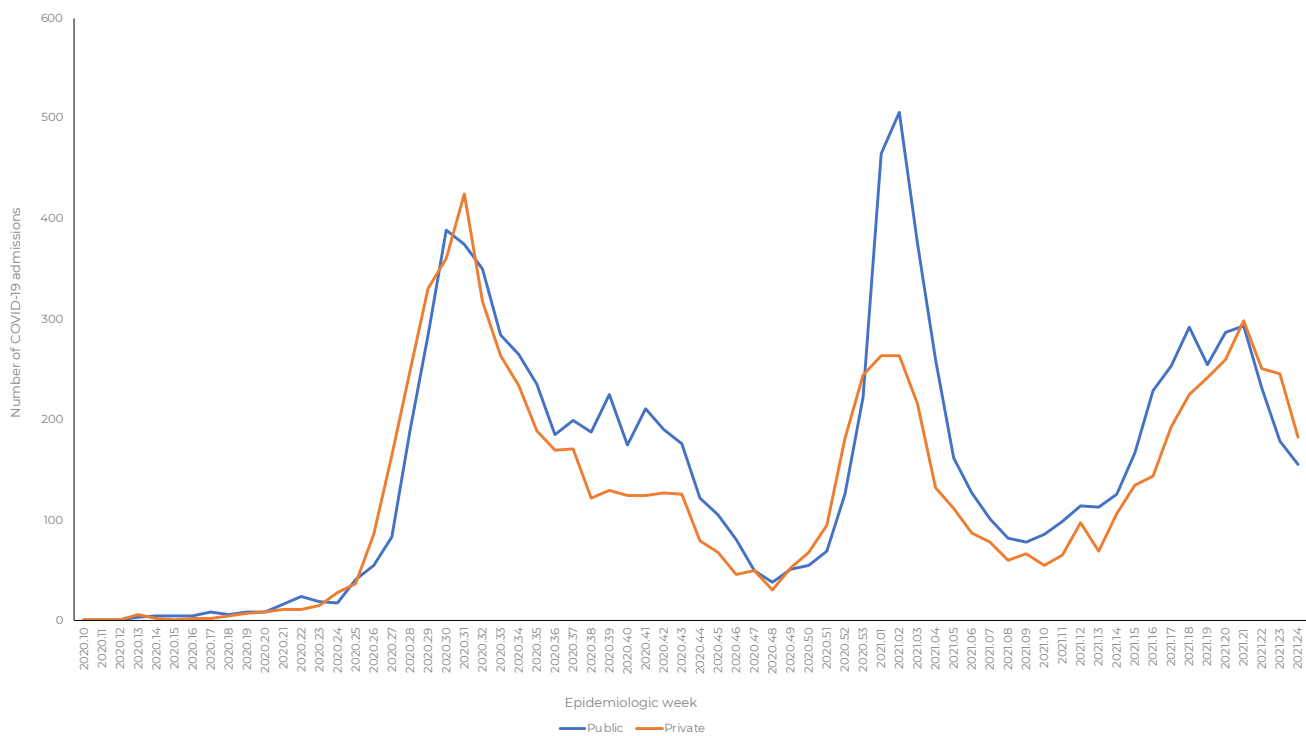
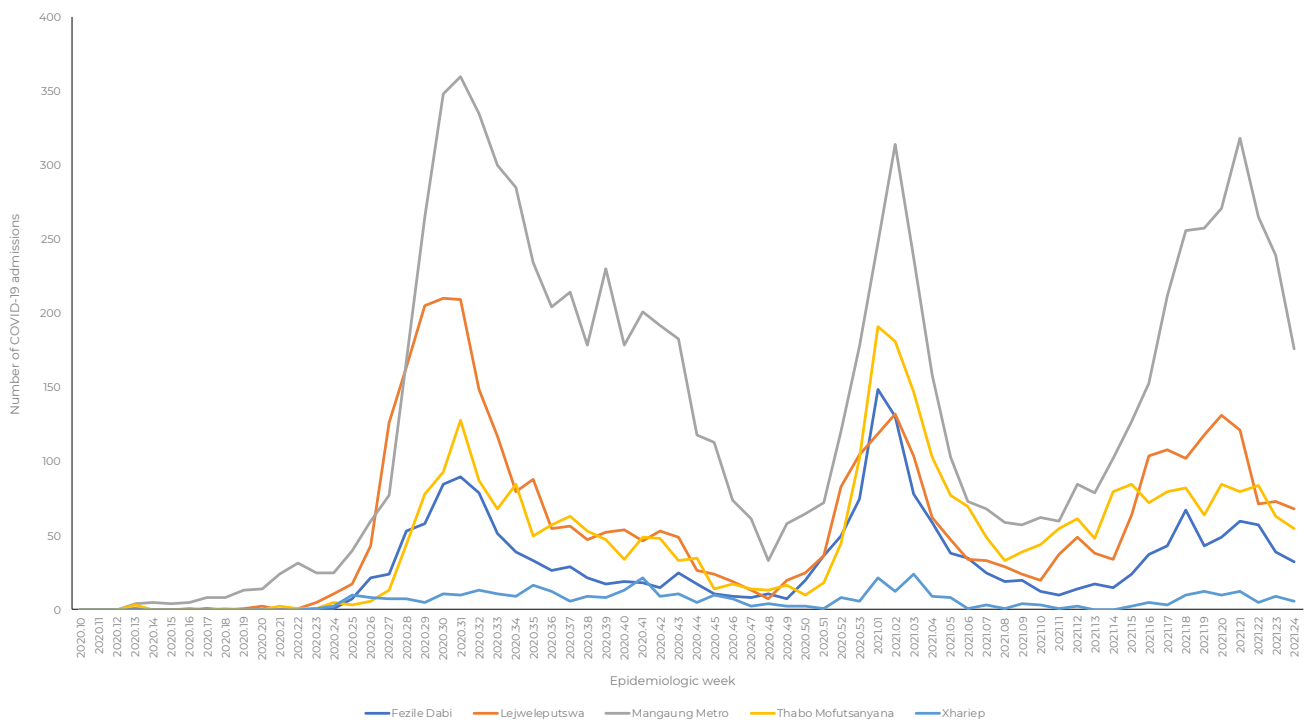


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-19 June 2021, n=18,717

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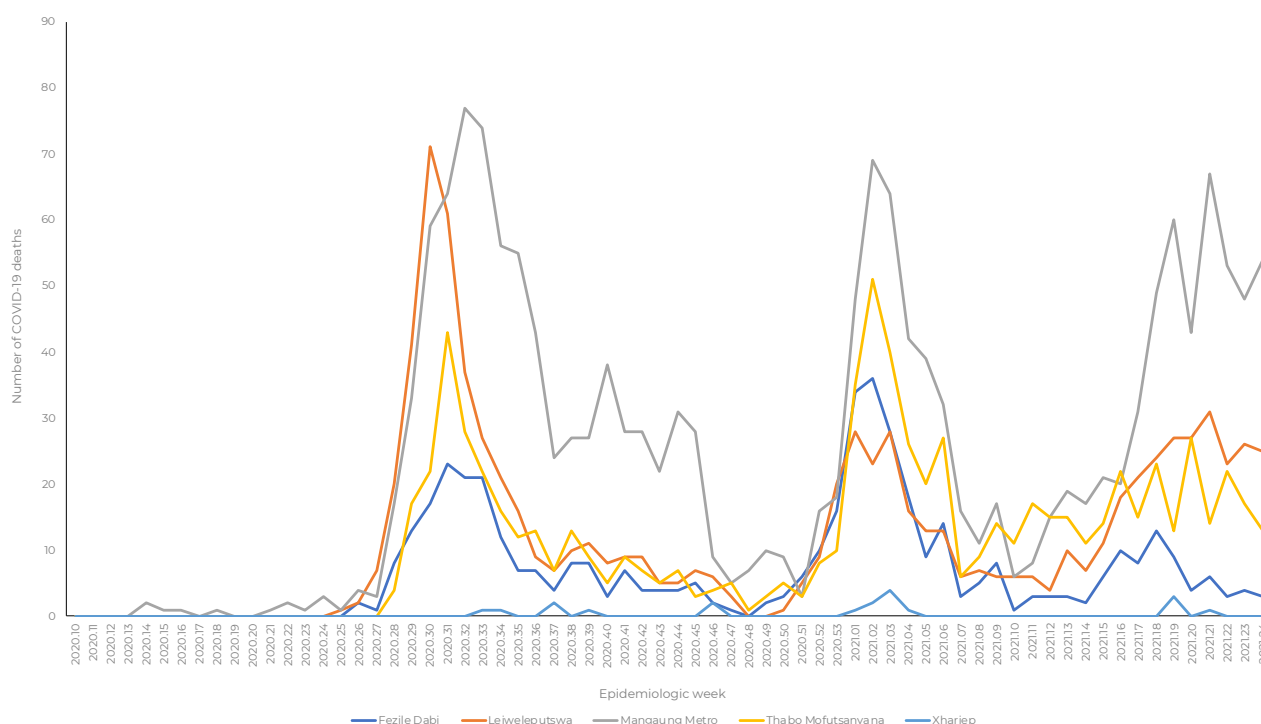
Weekly admissions at the peak of the second wave exceeded the weekly numbers of admissions at the peak of the first wave in Fezile Dabi, Thabo Mofutsanyane and Xhariep (Figure 9). Admissions have increased in all districts, with highest increase in Mangaung Metro. The weekly number of admissions have surpassed the peak of the second wave in Mangaung Metro.



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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 four districts, Mangaung Metro, Thabo Mofutsanyane, Lejweleputswa and Fezile Dabi. The weekly number of deaths have surpassed the peak of the second wave in Lejweleputswa.



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There was decreases in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in all the districts. (Table 5).

Table 5: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 22 May-19 June 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	8.36	5.07	-39.32	0.64	0.50	-22.22
Lejweleputswa	13.71	10.07	-26.56	3.86	3.64	-5.56
Mangaung Metro	41.64	29.64	-28.82	8.57	7.29	-15.00
Thabo Mofutsanyana	11.71	8.43	-28.05	2.57	2.14	-16.67
Xhariep	1.21	1.07	-11.76	0.07	0.00	-100.00

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GAUTENG

In both 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.

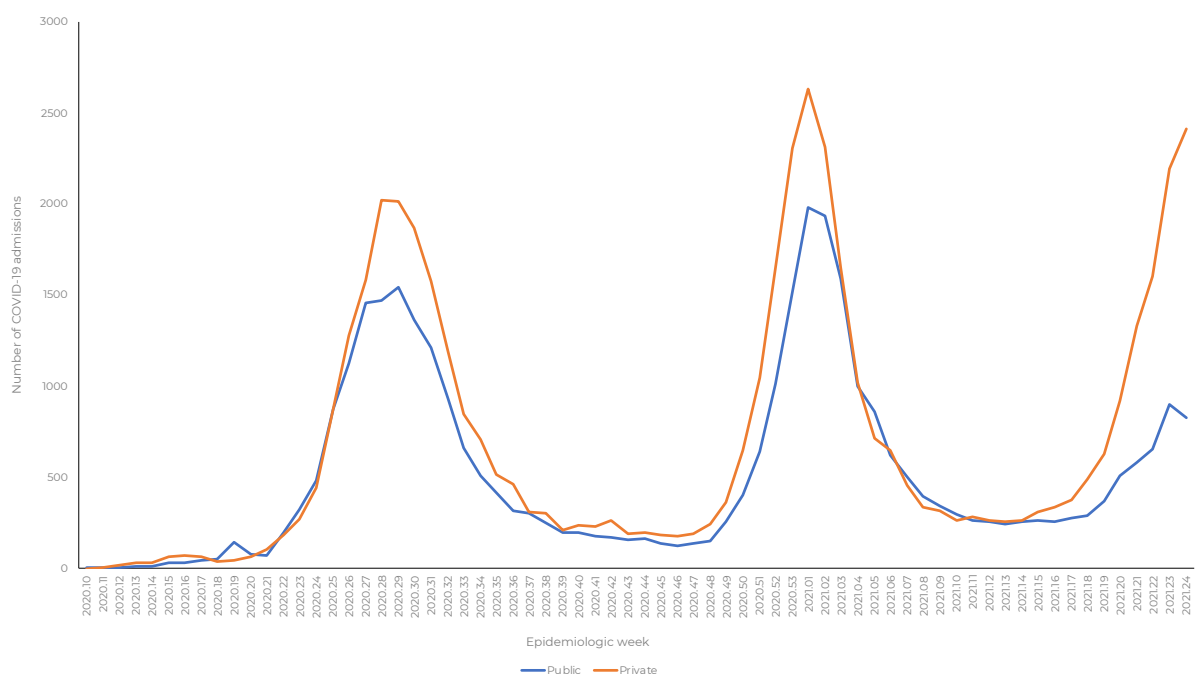


Figure 11: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-19 June 2021, n=81,904

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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.

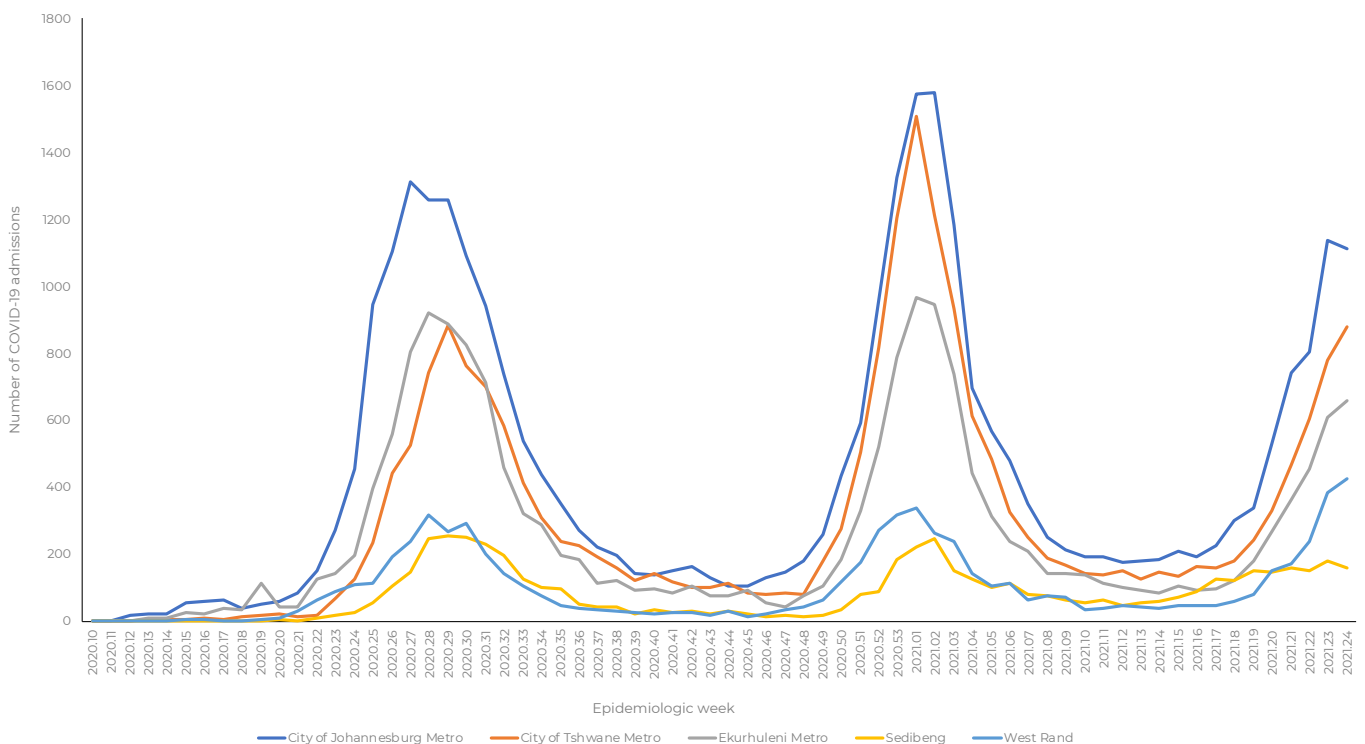


Figure 12: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-19 June 2021, n=81,904

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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 have increased in all districts.

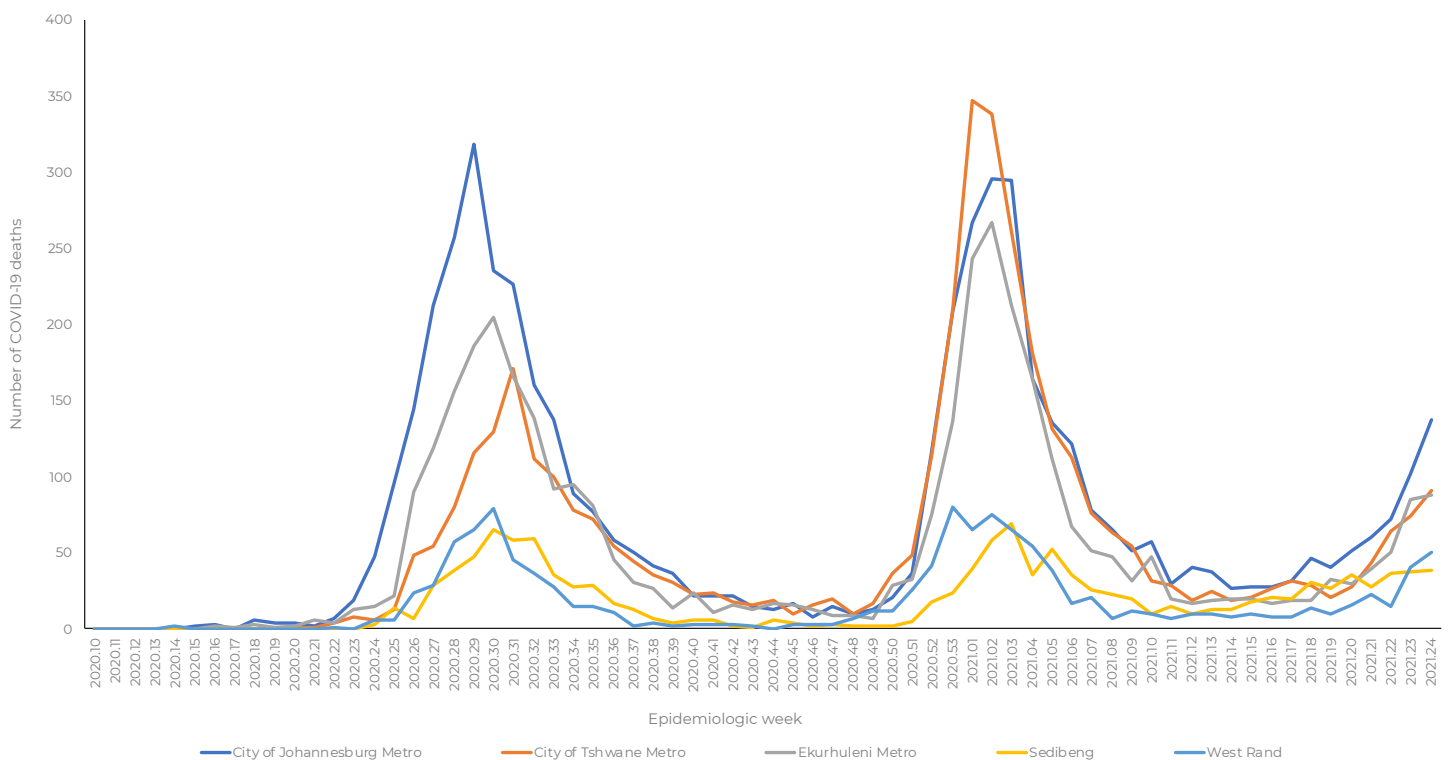


Figure 13: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-19 June 2021, n=14,993

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All districts showed increase in COVID-19 admissions between previous 14 days average admissions and current 14 days average admissions. The highest percentage change in admissions was in West Rand (Table 6).

Table 6: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 22 May-19 June 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	110.43	160.93	45.73	9.43	17.07	81.06
City of Tshwane Metro	76.71	118.43	54.38	7.64	11.79	54.21
Ekurhuleni Metro	58.36	90.43	54.96	6.36	12.36	94.38
Sedibeng	22.14	24.50	10.65	4.57	5.36	17.19
West Rand	29.50	57.86	96.13	2.71	6.43	136.84

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KWAZULU-NATAL

In both 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 the private sector since week 20.

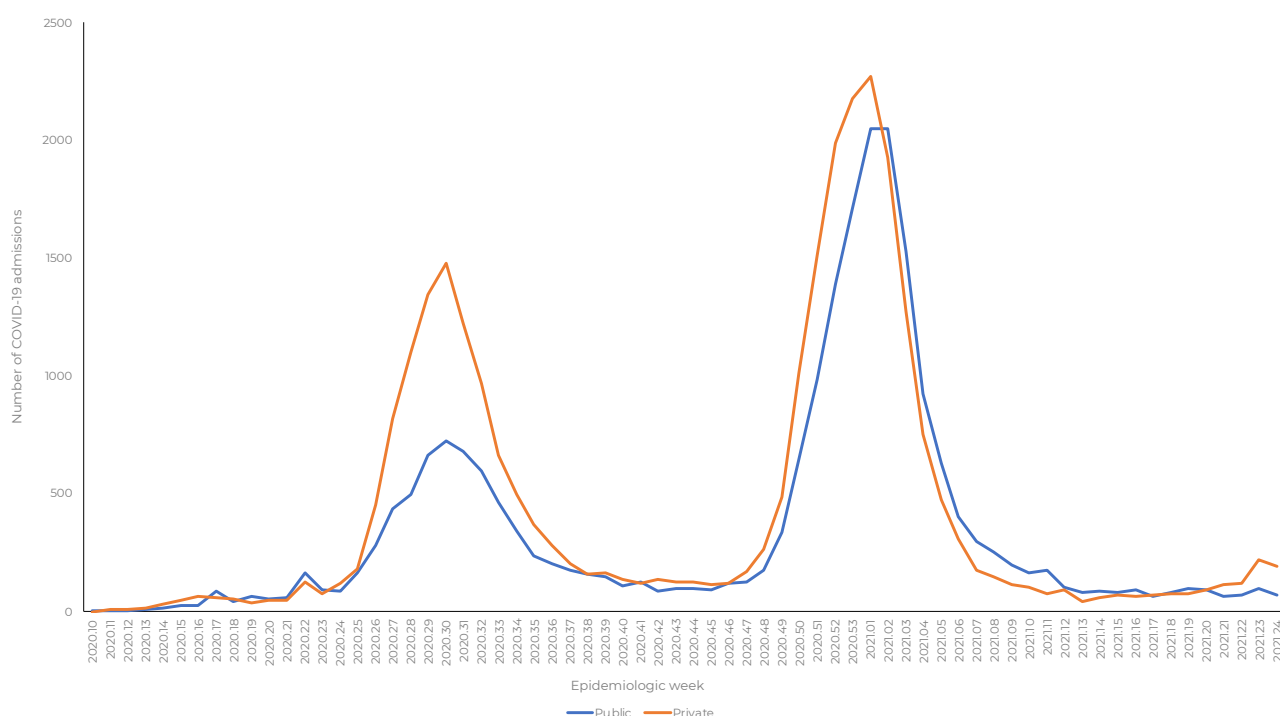


Figure 14: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-19 June 2021, n=50,379

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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.

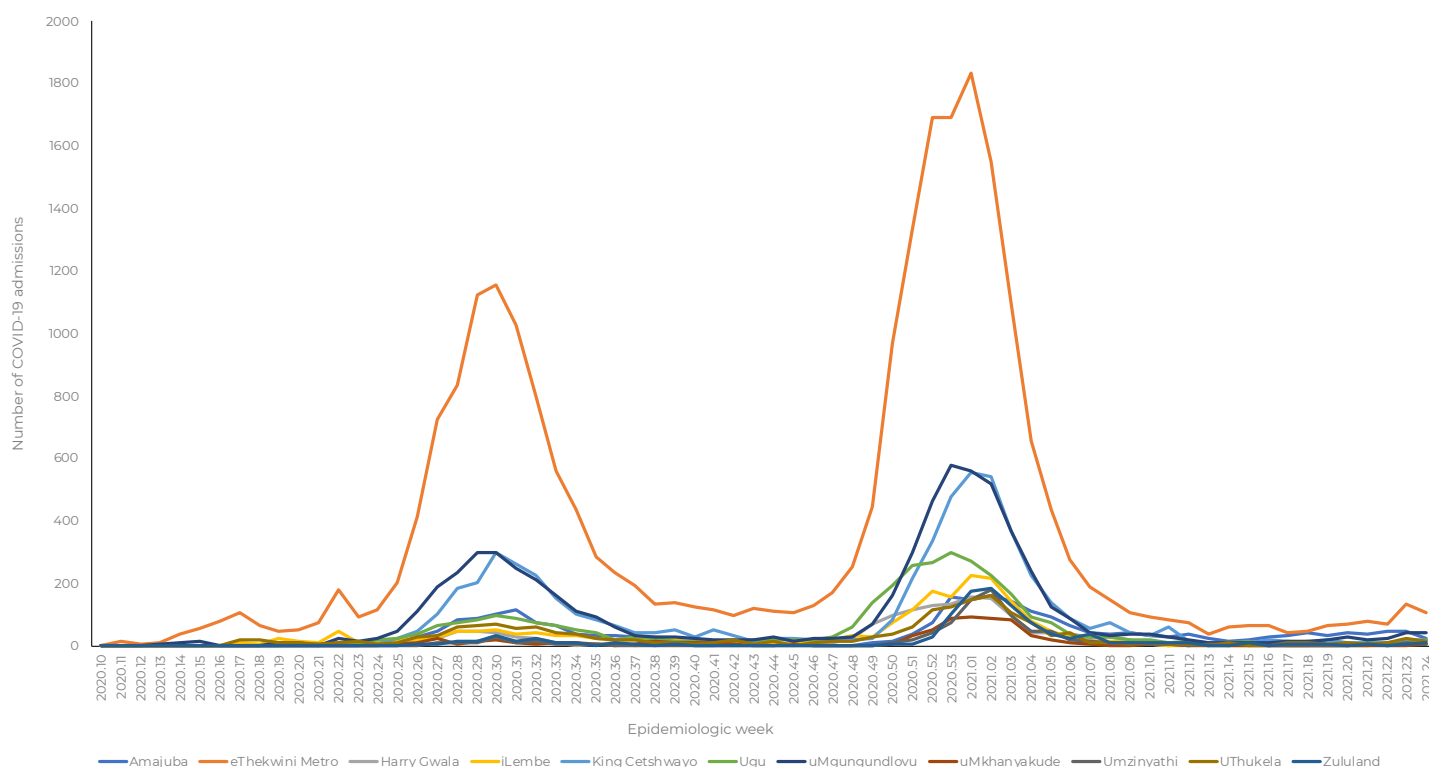


Figure 15: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-19 June 2021, n=50,379

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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, the numbers of COVID-19 deaths has remained low in all districts.

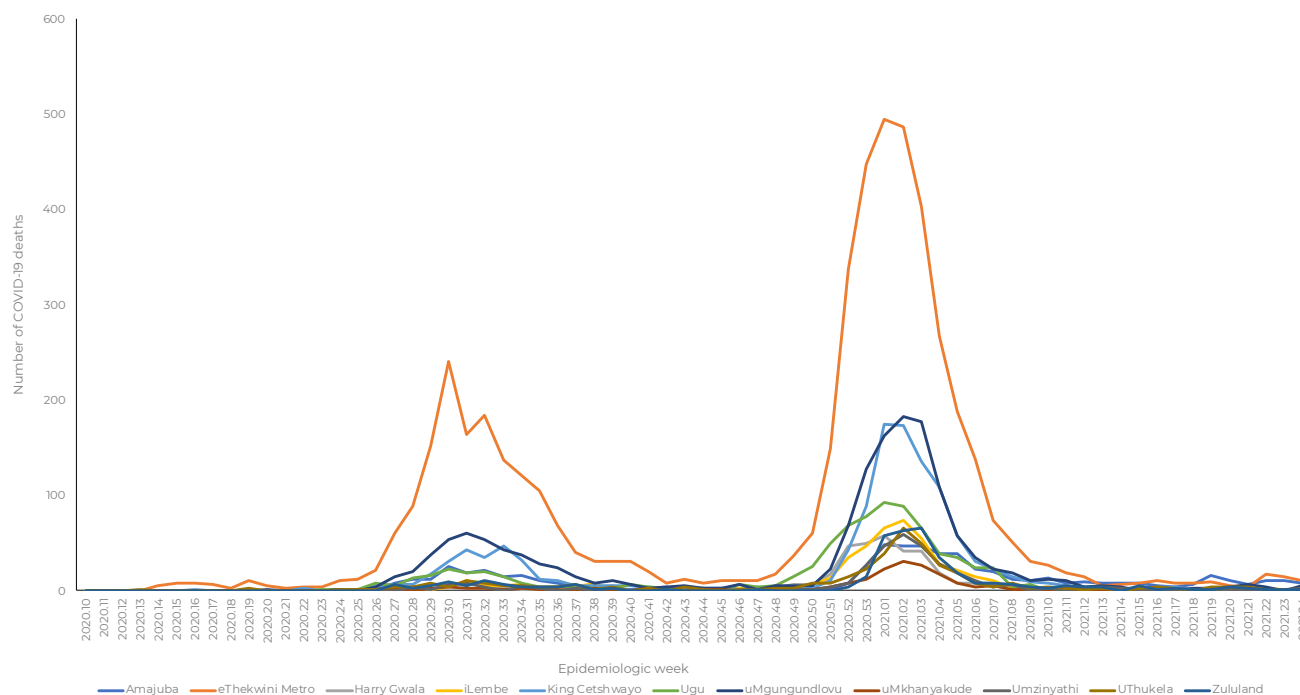


Figure 16: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-19 June 2021, n=11,120

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There have been small increases in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in all districts except Amajuba and iLembe. The highest percentage change in admissions was in Zululand (Table 7).

Table 7: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 22 May-19 June 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	6.07	4.93	-18.82	1.21	1.29	5.88
eThekweni Metro	10.64	17.36	63.09	1.50	1.71	14.29
Harry Gwala	0.50	1.29	157.14	0.00	0.00	0.00
iLembe	0.86	0.86	0.00	0.14	0.14	0.00
King Cetshwayo	1.36	2.64	94.74	0.21	0.14	-33.33
Ugu	1.14	2.14	87.50	0.07	0.07	0.00
uMgungundlovu	3.21	6.14	91.11	0.71	0.36	-50.00
uMkhanyakude	0.29	0.57	100.00	0.00	0.07	0.00
Umzinyathi	0.71	1.21	70.00	0.07	0.21	200.00
UThukela	1.14	2.86	150.00	0.29	0.14	-50.00
Zululand	0.50	1.36	171.43	0.21	0.14	-33.33

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LIMPOPO

In the first wave 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. 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.

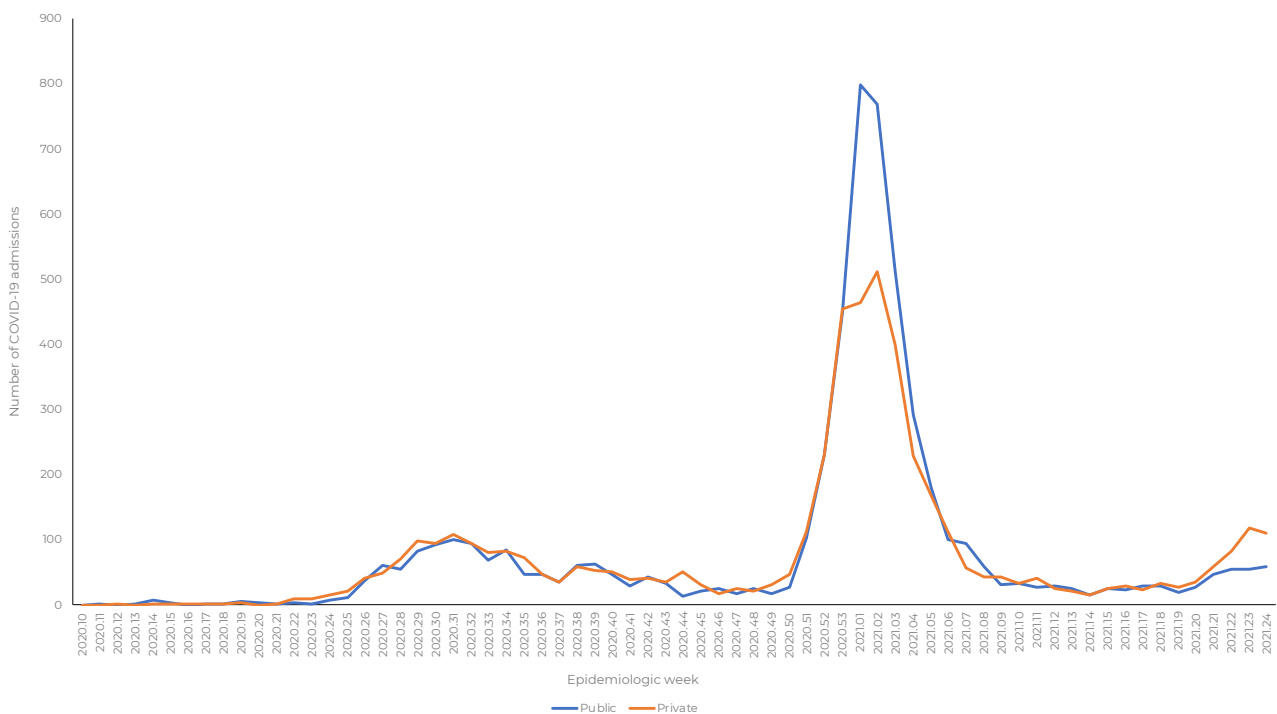


Figure 17: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-19 June 2021, n=10,297

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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, particularly Capricorn, since week 19.

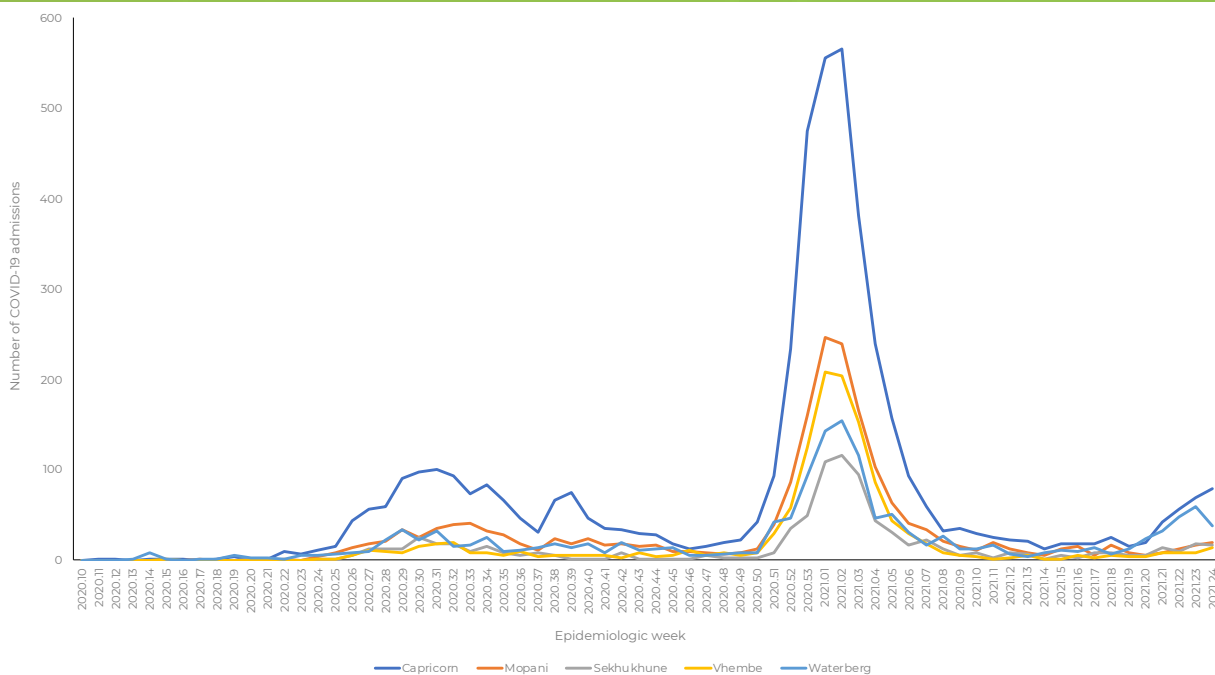


Figure 18: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-19 June 2021, n=10,297

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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). Since the end of the second wave, the numbers of COVID-19 deaths have remained low in all districts.

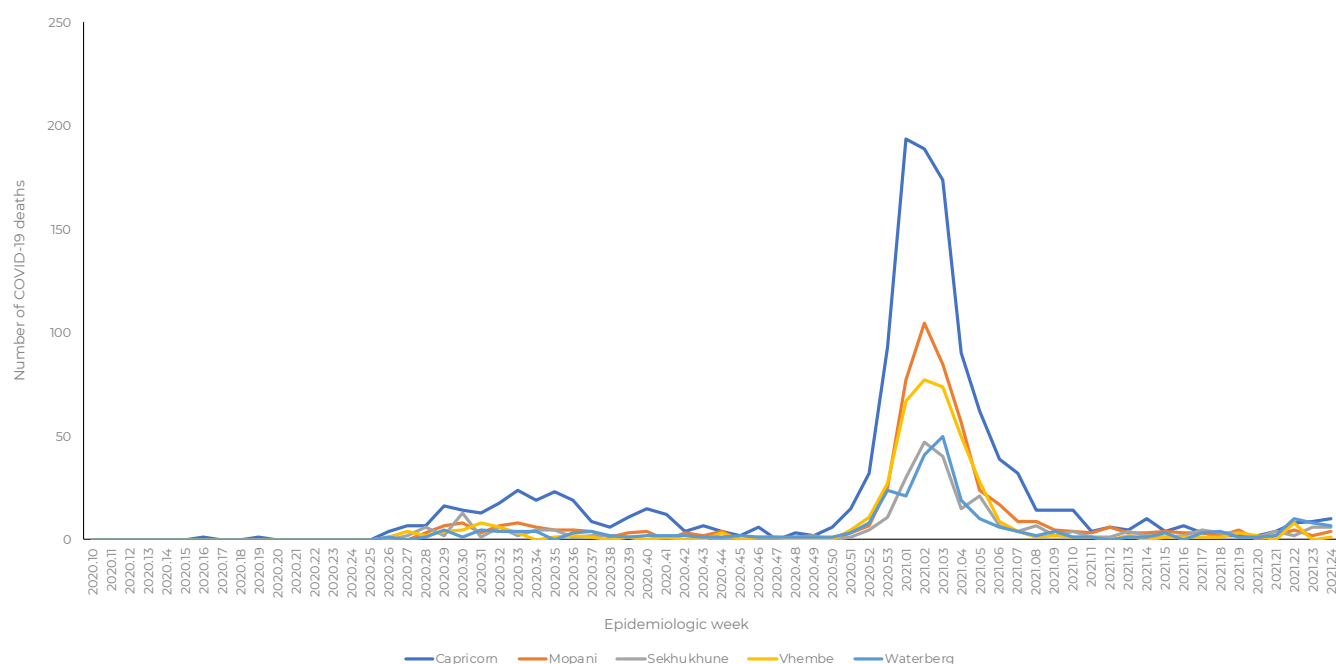


Figure 19: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-19 June 2021, n=2,830

There has been increase in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in all districts. The highest percentage change in admissions was in Mopani (Table 8).

Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 22 May-19 June 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	7.14	10.64	49.00	0.86	1.36	58.33
Mopani	1.50	2.64	76.19	0.50	0.43	-14.29
Sekhukhune	1.71	2.50	45.83	0.43	0.86	100.00
Vhembe	1.14	1.64	43.75	0.57	0.07	-87.50
Waterberg	5.71	6.93	21.25	0.86	1.07	25.00

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MPUMALANGA

In the first wave 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 the private sector has been observed since week 16.

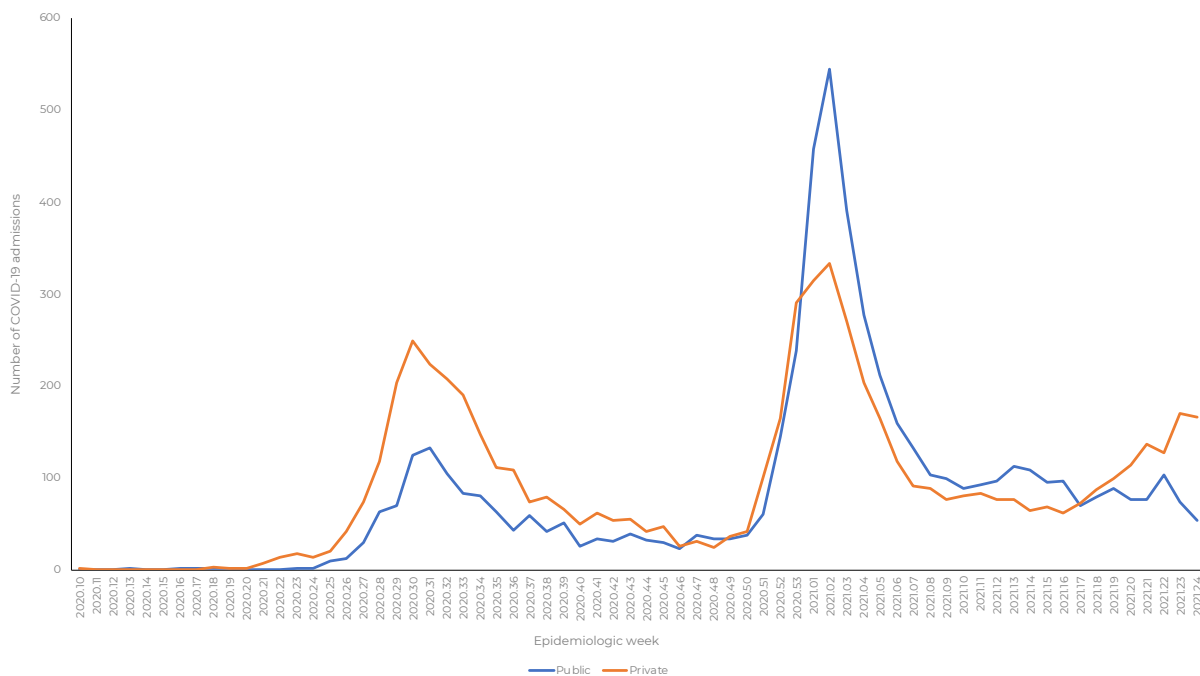


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-19 June 2021, n=11,567

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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 Nkangala and Gert Sibande districts.

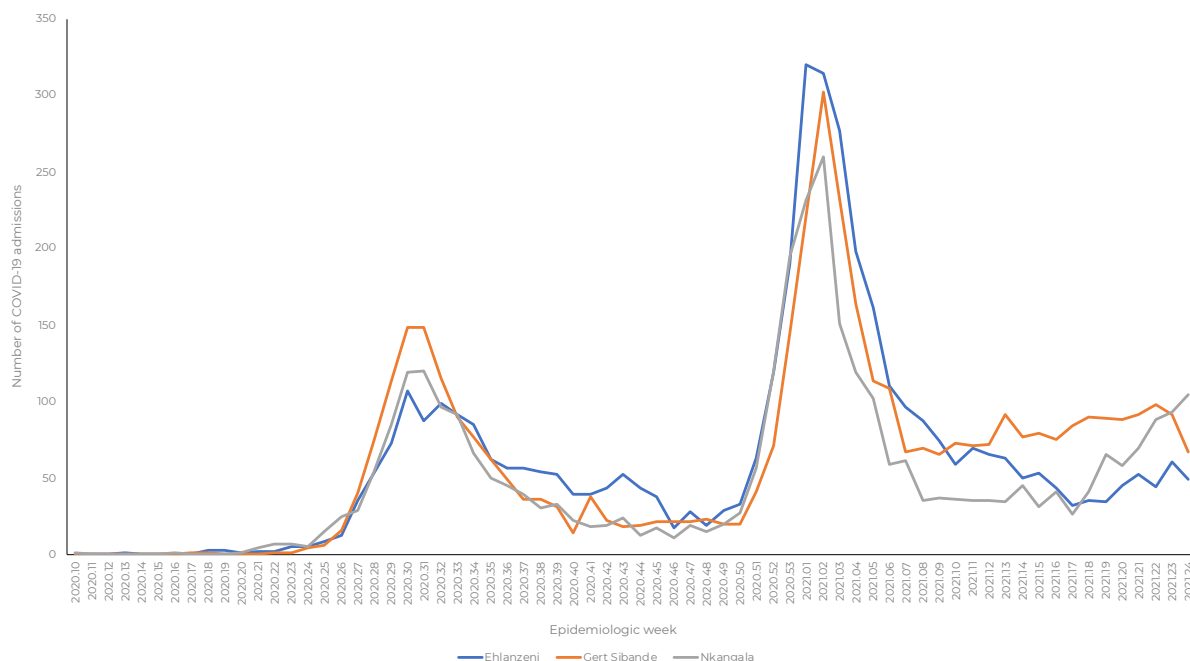


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-19 June 2021, n=11,567

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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.

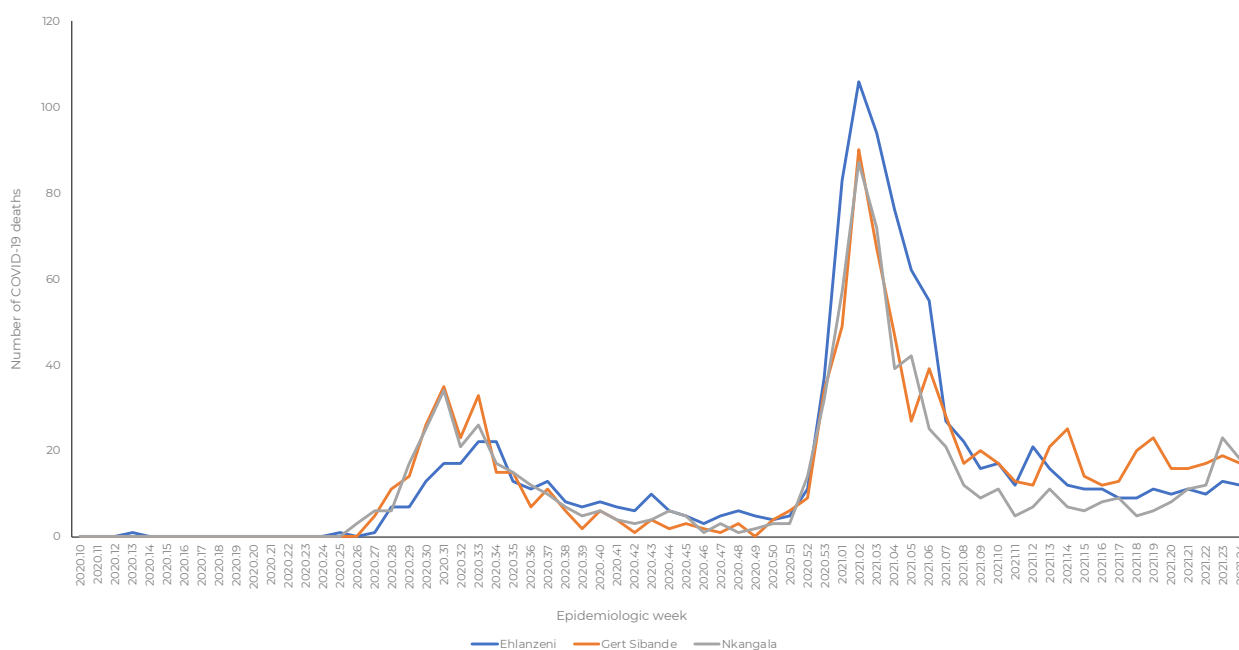


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-19 June 2021, n=2,727

There have been small increases in COVID-19 admissions between previous 14 days average admissions and current 14 days average admissions in Ehlanzeni and Nkangala. The highest percentage change in admissions was in Nkangala (Table 9).

Table 9: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 22 May-19 June 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	6.86	7.79	13.54	1.50	1.79	19.05
Gert Sibande	13.50	11.29	-16.40	2.36	2.57	9.09
Nkangala	11.21	14.07	25.48	1.64	2.93	78.26

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 2021

NORTH WEST

In both 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.

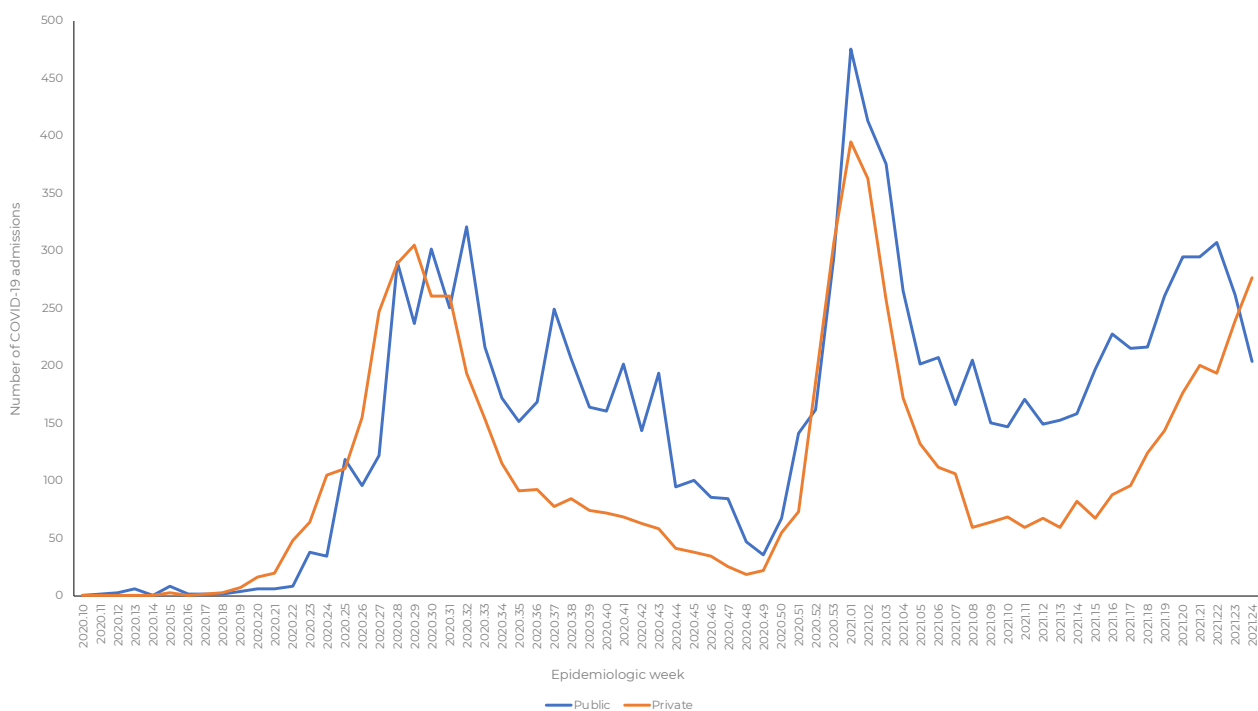


Figure 23: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-19 June 2021, n=18,128

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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.

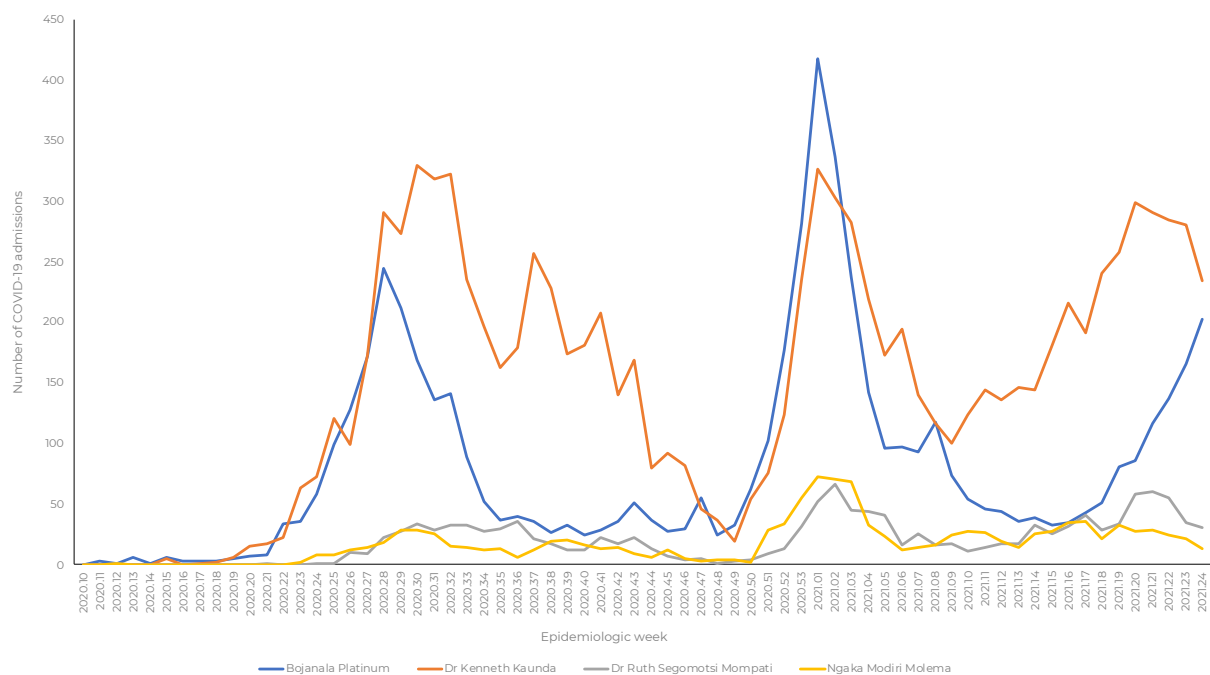


Figure 24: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-19 June 2021, n=18,128

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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.

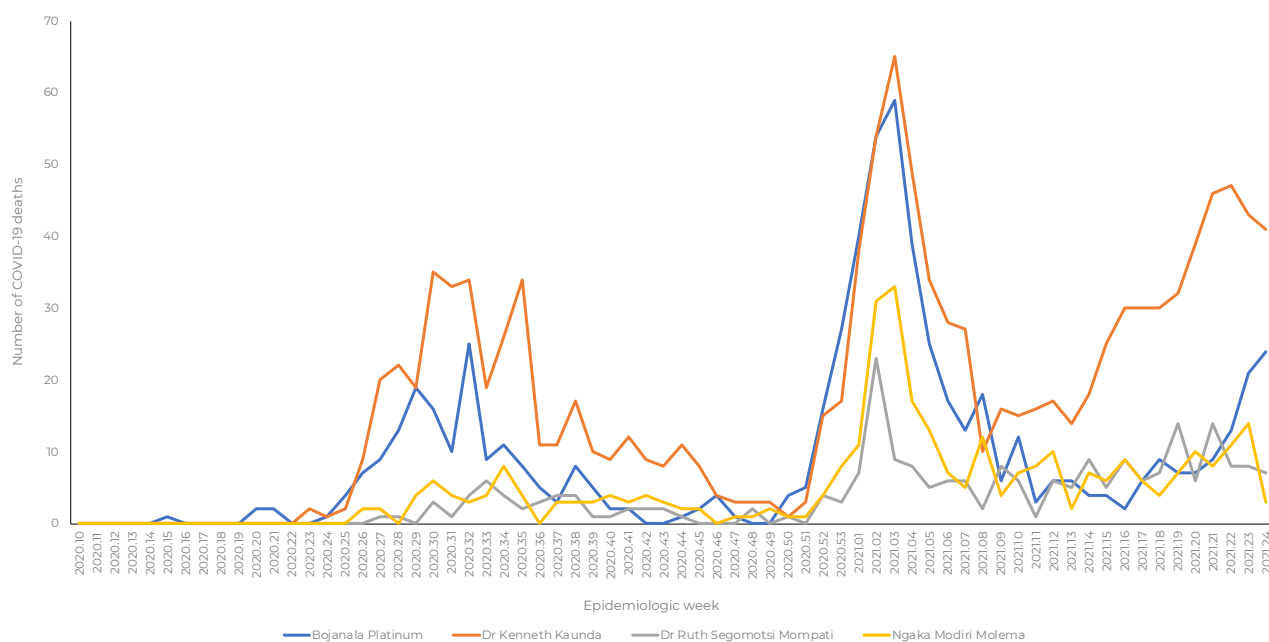


Figure 25: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-19 June 2021, n = 2,365

There has been an increase in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in Bojanala Platinum. The highest percentage change in admissions was in Bojanala Platinum (Table 10).

Table 10: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 22 May-19 June 2021

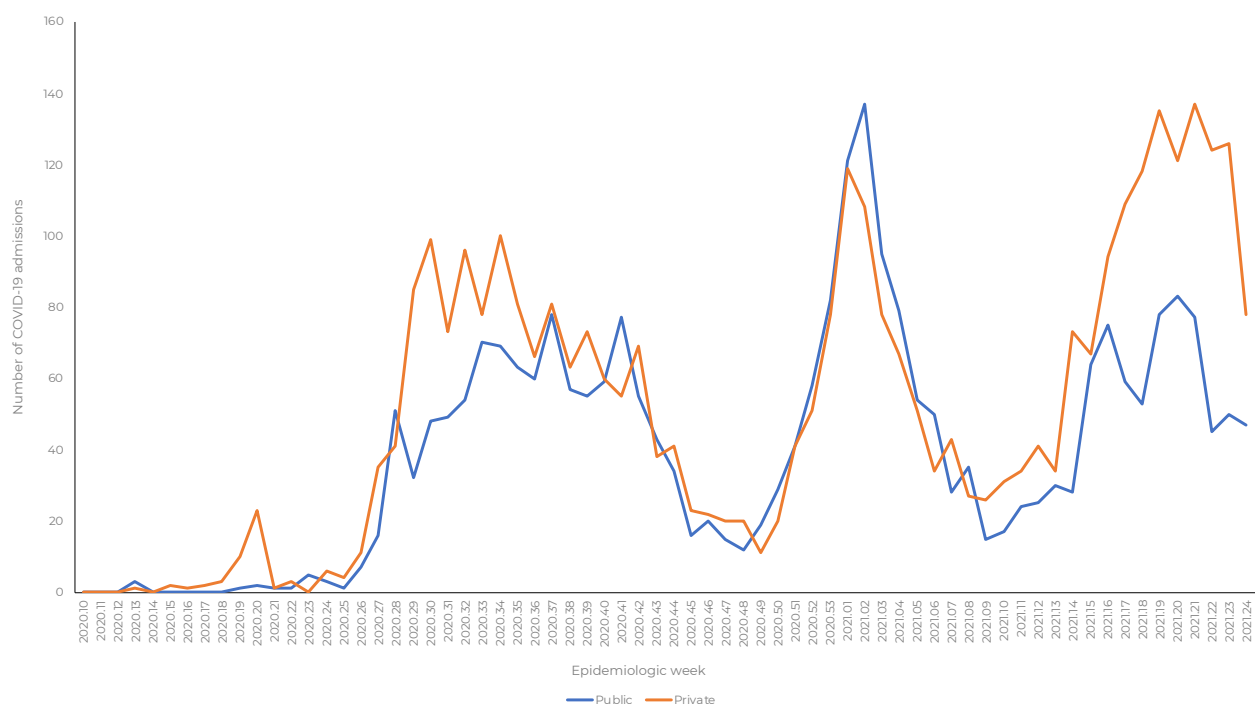
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum	18.07	26.36	45.85	1.57	3.21	104.55
Dr Kenneth Kaunda	41.14	36.71	-10.76	6.64	6.00	-9.68
Dr Ruth Segomotsi Mompati	8.21	4.57	-44.35	1.57	1.07	-31.82
Ngaka Modiri Molema	3.71	2.43	-34.62	1.36	1.21	-10.53

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 2021

NORTHERN CAPE

In both waves there were roughly equal numbers of admissions in both sectors. 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 and have decreased in the past 3 weeks. The weekly numbers of admissions in the private sector in the third wave have surpassed the numbers during the peak of the second wave.



COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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 weekly number of admissions in the third wave has surpassed the peak of the second wave in Frances Baard, ZF Mgcawu and John Taolo Gaetsewe districts.

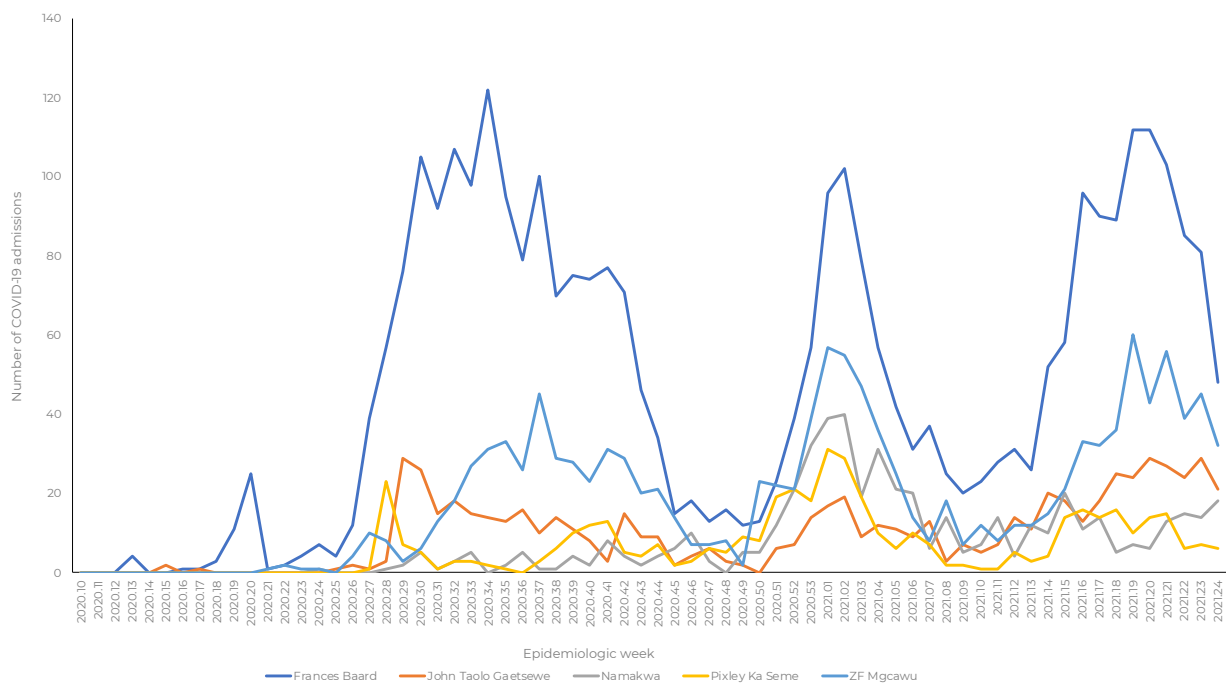


Figure 27: Number of reported COVID-19 admissions, by district and epidemiologic week, Northern Cape, 5 March 2020-19 June 2021, n=6,116

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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 weekly number of COVID-19 deaths in the third wave has surpassed the peak of second wave in Frances Baard and ZF Mgcawu district.

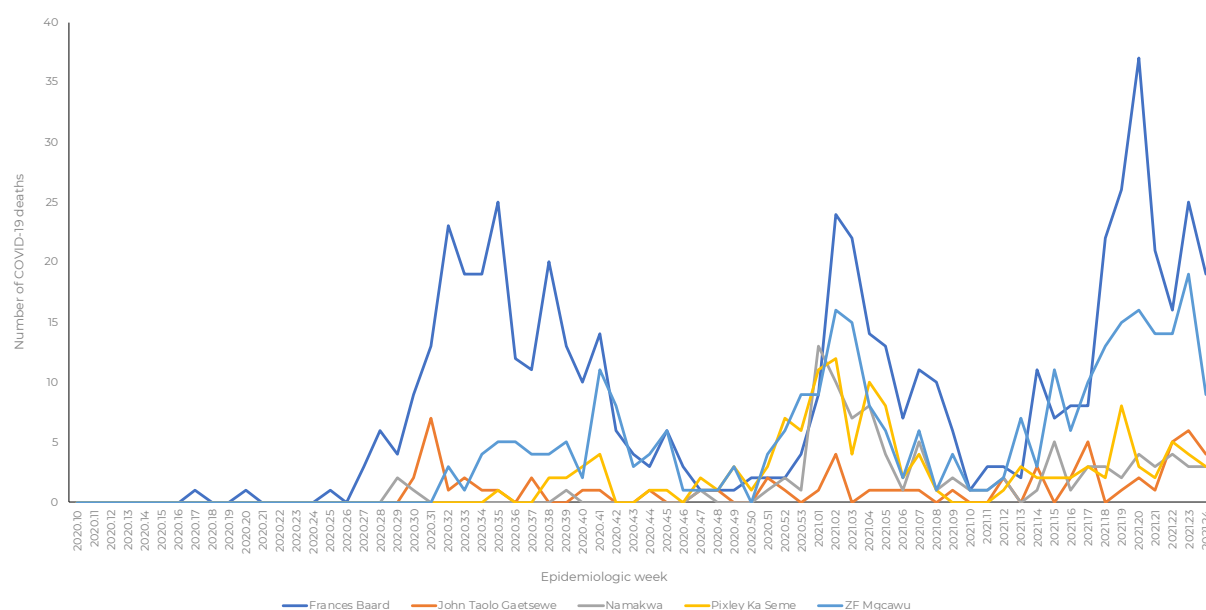


Figure 28: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-19 June 2021, n=1,152

There has been an increase in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in Namakwa. The highest percentage change in new admissions was in Namakwa district (Table 11).

Table 11: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 22 May-19 June 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	13.43	9.21	-31.38	2.64	3.14	18.92
John Taolo Gaetsewe	3.64	3.57	-1.96	0.43	0.71	66.67
Namakwa	2.00	2.29	14.29	0.50	0.43	-14.29
Pixley Ka Seme	1.50	0.93	-38.10	0.50	0.50	0.00
ZF Mgcawu	6.79	5.50	-18.95	2.00	2.00	0.00

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 2021

WESTERN CAPE

In both 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 increase in admissions in both sectors since week 17.

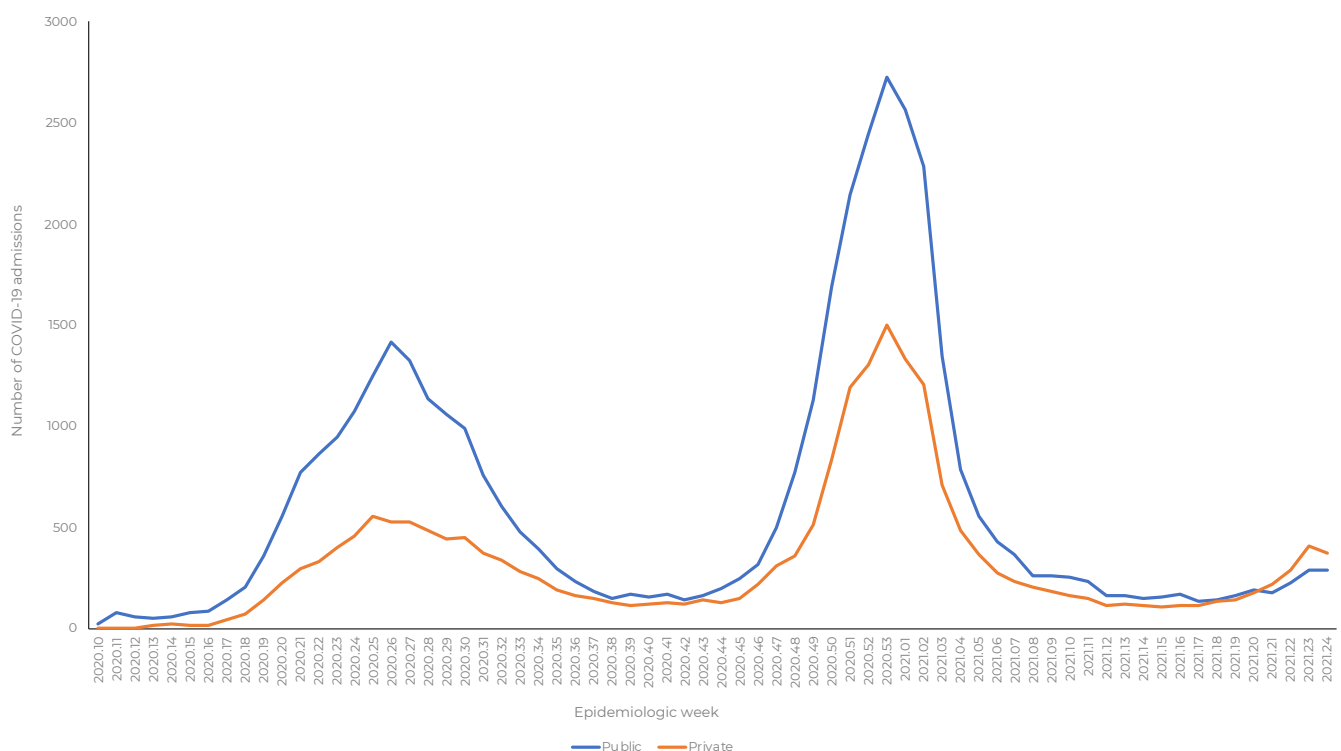


Figure 29: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-19 June 2021, n=62,037

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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.

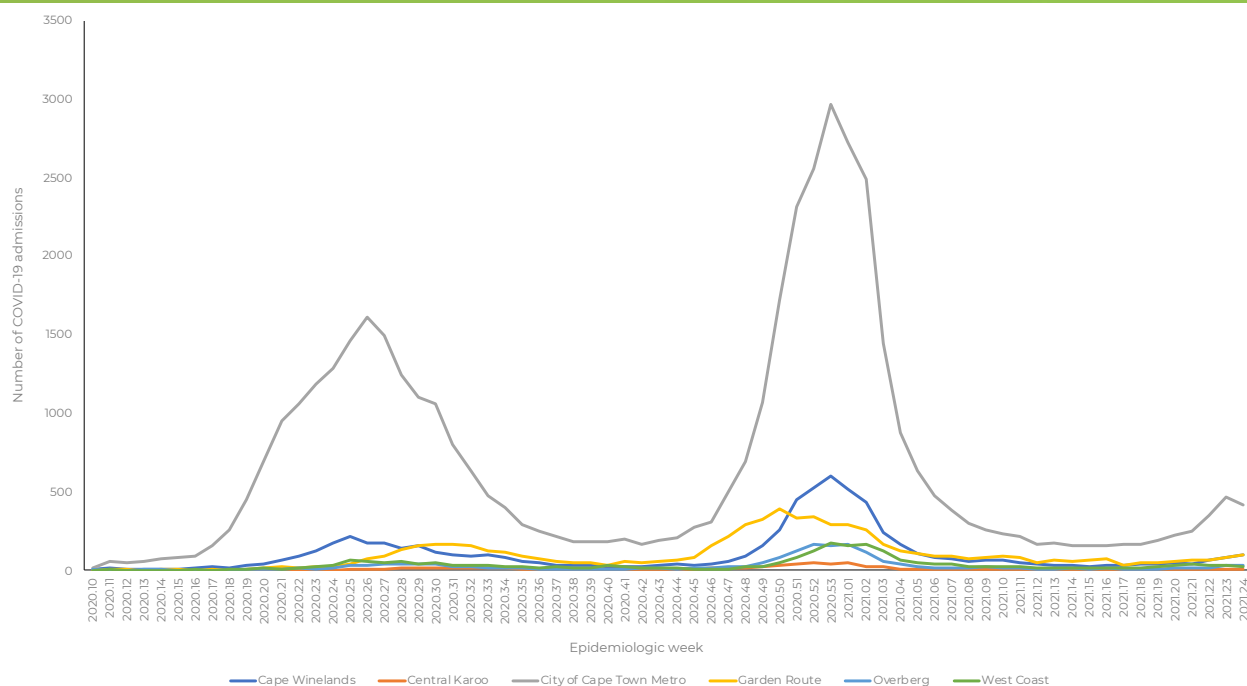


Figure 30: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-19 June 2021, n=62,037

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 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 small increases in deaths particularly in City of Cape Town Metro.

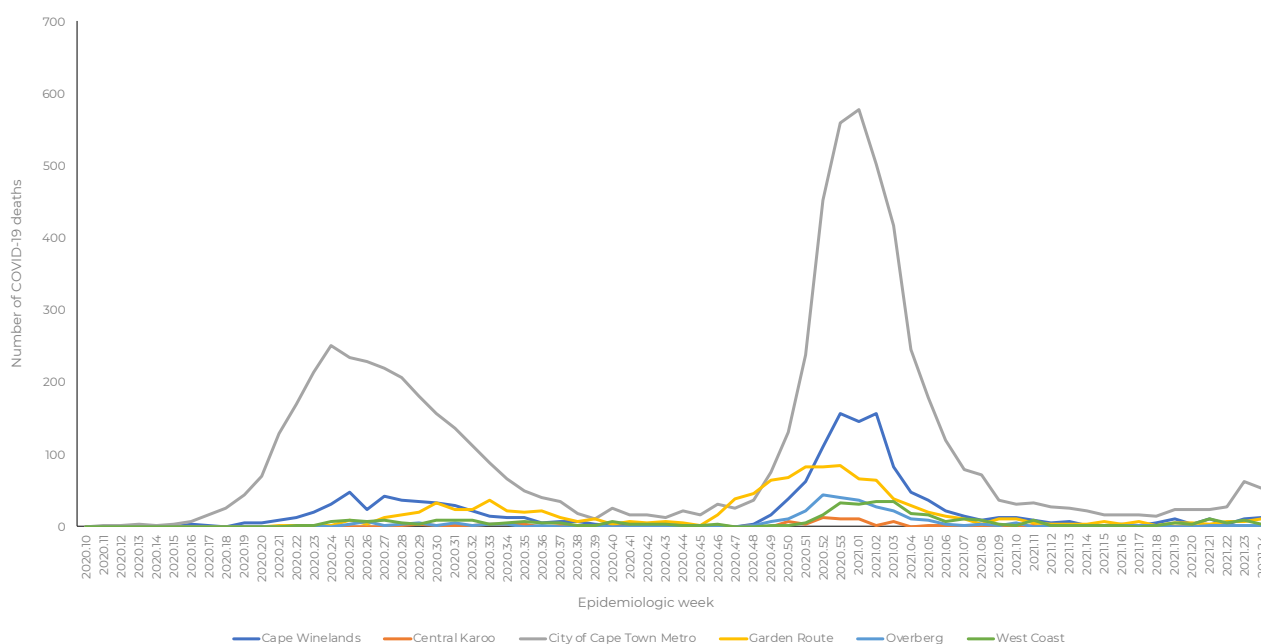


Figure 31: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-19 June 2021, n=10,342

All districts showed small increases in COVID-19 admissions between the previous 14 days average admissions and the current 14 days average admissions except West Coast. The highest percentage change in admissions was in Overberg (Table 12).

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 22 May-19 June 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	6.93	12.50	80.41	1.00	1.57	57.14
Central Karoo	0.57	0.79	37.50	0.21	0.00	-100.00
City of Cape Town Metro	42.43	62.79	47.98	3.64	8.29	127.45
Garden Route	8.57	13.21	54.17	0.71	1.29	80.00
Overberg	1.71	4.00	133.33	0.21	0.29	33.33
West Coast	4.71	3.86	-18.18	1.07	0.93	-13.33

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 24 2021

APPENDIX

Table 13: Percentage average change in hospital admissions over 14 days, by district, South Africa, 05 June-19 June 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	1795	215.68	3	0.36	-25.00
	Amathole	2369	296.42	3	0.38	0.00
	Buffalo City Metro	7486	934.73	27	3.37	17.39
	Chris Hani	3342	459.29	6	0.82	-45.45
	Joe Gqabi	735	213.06	4	1.16	-42.86
	Nelson Mandela Bay Metro	11527	950.24	108	8.90	2.86
	O R Tambo	3270	213.42	8	0.52	100.00
	Sarah Baartman	1819	375.97	29	5.99	26.09
Free State	Fezile Dabi	2030	397.94	32	6.27	-25.58
	Lejweleputswa	3926	600.67	69	10.56	-6.76
	Mangaung Metro	9114	1046.48	185	21.24	-27.17
	Thabo Mofutsanyana	3273	427.95	57	7.45	-13.64
	Xhariep	410	316.74	6	4.64	-45.45
Gauteng	City of Johannesburg Metro	30478	519.52	1155	19.69	-3.99
	City of Tshwane Metro	21150	567.16	909	24.38	6.07
	Ekurhuleni Metro	18011	452.29	687	17.25	6.84
	Sedibeng	5508	576.44	169	17.69	-12.44
	West Rand	6949	727.84	437	45.77	10.63
KwaZulu-Natal	Amajuba	2529	443.28	25	4.38	-48.98
	eThekweni Metro	23963	601.90	115	2.89	-17.27
	Harry Gwala	1585	308.35	5	0.97	-64.29
	iLembe	2169	312.29	7	1.01	16.67
	King Cetshwayo	5693	586.50	21	2.16	5.00
	Ugu	3335	415.98	21	2.62	75.00
	uMgungundlovu	6431	559.49	41	3.57	-10.87

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	797	116.03	6	0.87	200.00
	Umzinyathi	920	162.10	7	1.23	-30.00
	UThukela	1868	261.55	16	2.24	-38.46
	Zululand	1103	125.23	12	1.36	71.43
Limpopo	Capricorn	4750	363.16	83	6.35	2.47
	Mopani	1922	162.21	20	1.69	5.26
	Sekhukhune	869	73.01	17	1.43	-15.00
	Vhembe	1260	88.28	18	1.26	100.00
	Waterberg	1515	204.12	51	6.87	-23.88
Mpumalanga	Ehlanzeni	4097	224.03	55	3.01	-14.06
	Gert Sibande	4134	332.81	70	5.64	-36.94
	Nkangala	3360	208.84	108	6.71	9.09
North West	Bojanala Platinum	5541	287.37	214	11.10	25.15
	Dr Kenneth Kaunda	10163	1274.01	247	30.96	-20.58
	Dr Ruth Segomotsi Mompoti	1316	278.18	32	6.76	-21.95
	Ngaka Modiri Molema	1164	127.93	13	1.43	-38.10
Northern Cape	Frances Baard	3232	778.96	55	13.26	-33.73
	John Taolo Gaetsewe	675	248.64	31	11.42	-18.42
	Namakwa	515	445.45	19	16.43	18.75
	Pixley Ka Seme	445	211.02	6	2.85	-14.29
	ZF Mgcawu	1281	457.66	33	11.79	-32.65
Western Cape	Cape Winelands	6900	733.06	114	12.11	-0.87
	Central Karoo	576	766.84	8	10.65	-11.11
	City of Cape Town Metro	44429	964.80	531	11.53	-16.90
	Garden Route	6547	1049.77	125	20.04	19.05
	Overberg	1714	571.51	36	12.00	-5.26
	West Coast	2183	473.73	26	5.64	-36.59

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 24 2021

APPENDIX

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

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	2029	2439	12	4480	83	79	2	164
5-9	560	689	4	1253	10	13	0	23
10-14	950	890	0	1840	27	24	0	51
15-19	2926	1527	3	4456	74	73	0	147
20-24	4840	2431	5	7276	182	131	0	313
25-29	8152	3674	8	11834	402	237	0	639
30-34	11126	6437	4	17567	712	533	0	1245
35-39	12290	8880	11	21181	972	860	2	1834
40-44	11869	10370	5	22244	1231	1259	0	2490
45-49	13677	12833	10	26520	1857	1884	1	3742
50-54	16123	14499	1	30623	2517	2559	0	5076
55-59	17744	15440	7	33191	3680	3460	1	7141
60-64	16026	14493	12	30531	4222	4245	1	8468
65-69	13458	11853	7	25318	4292	3931	0	8223
70-74	10766	9605	10	20381	3595	3459	4	7058
75-79	7793	6401	5	14199	2698	2477	1	5176
80-84	5724	3982	4	9710	2140	1636	2	3778
85-89	2921	1853	2	4776	1133	837	0	1970
90-94	1294	619	1	1914	588	302	0	890
>=95	421	227	0	648	183	88	0	271
Unknown	813	682	39	1534	49	56	0	105
Total	161502	129824	150	291476	30647	28143	14	58804