

COVID-19 HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 23 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 12 June 2021.

HIGHLIGHTS

- As of 12 June 2021, 284,126 COVID-19 admissions and 57,813 in-hospital deaths were reported from 651 facilities (396 public-sector and 255 private-sector) in all nine provinces of South Africa.
- Increases in admissions in Gauteng, Northern Cape, North West and Free State 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 three weeks in Western Cape, Eastern Cape and Limpopo.
- 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 12 June 2021, a total of 651 facilities submitted data on hospitalised COVID-19 cases, 396 from public sector and 255 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 2020-12 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	12
Northern Cape	19	8
Western Cape	59	41
South Africa	396	255

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RESULTS

Epidemiological and geographic trends in admissions

From 5 March 2020 to 12 June 2021, a total of 284,126 COVID-19 admissions were reported from 651 facilities in all nine provinces of South Africa. The weekly numbers of admissions at the peak of the second wave surpassed the numbers during the peak of the first wave in both sectors (Figure 1). Since week 14 2021, numbers of COVID-19 admissions have increased particularly in the private sector. Decreases in the most recent week may reflect delays in data submission.

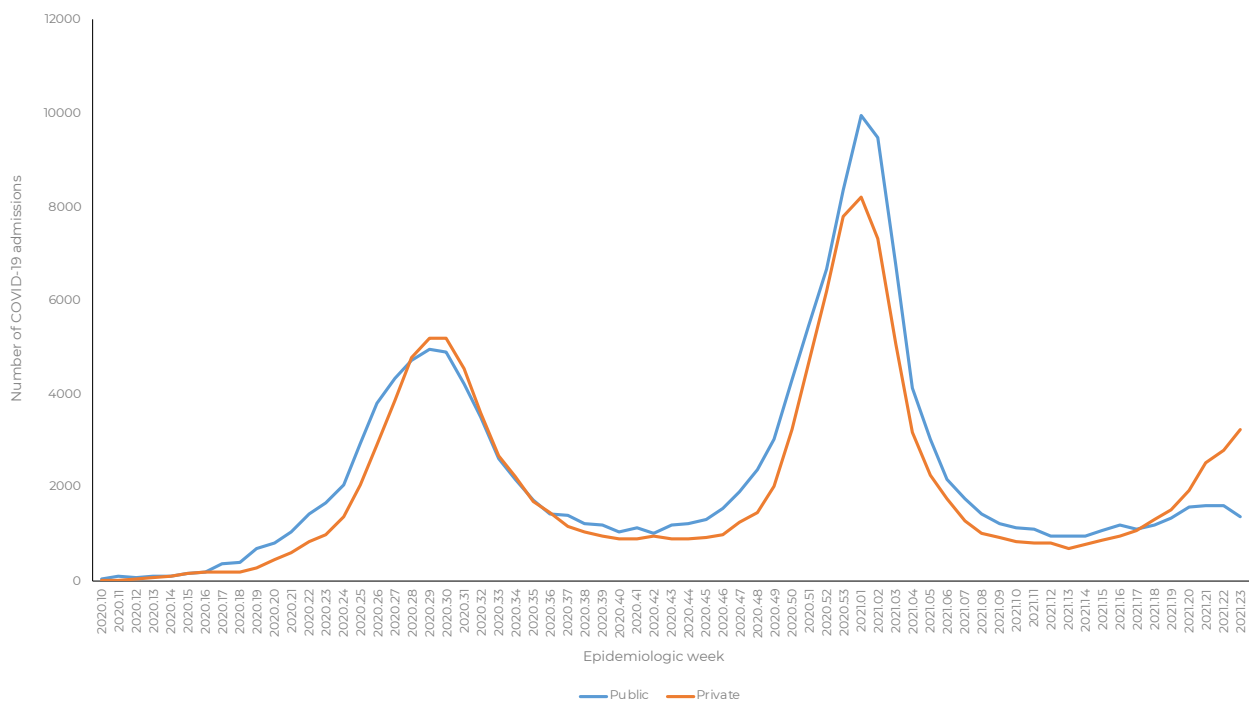


Figure 1. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-12 June 2021, n=284,126

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The majority of admissions were recorded in four provinces, Gauteng 77,814 (27%), Western Cape 61,235 (22%), Eastern Cape 32,090 (11%) and KwaZulu-Natal 50,021 (18%) provinces. The weekly numbers of admissions at the peak of the second wave surpassed the numbers during the peak of the first wave in all provinces except Free State. Numbers of COVID-19 admissions have increased in Gauteng, Northern Cape, North West and Free State (Figures 2a and 2b). Reductions in the most recent week may be as a result of delayed reporting.

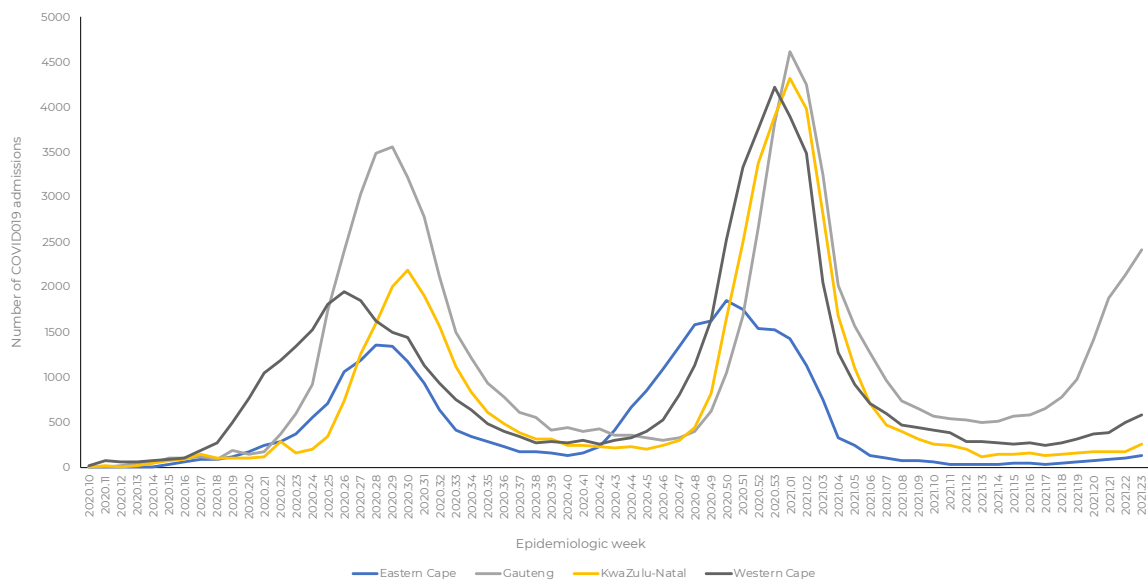


Figure 2a. Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-12 June 2021, n=284,126

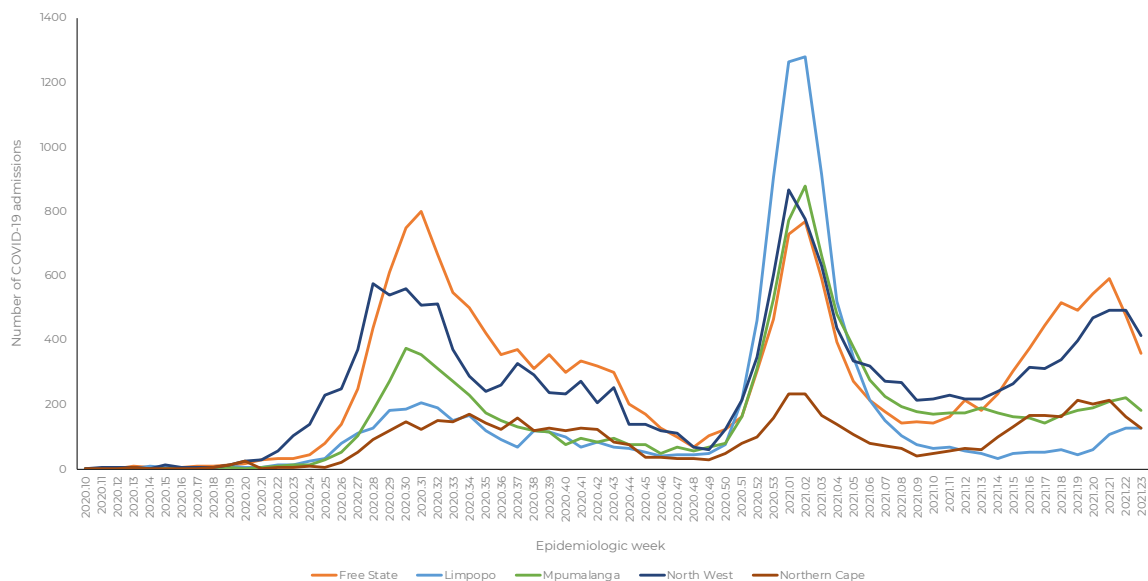


Figure 2b. Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-12 June 2021, n=284,126

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EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

The weekly numbers of deaths at the peak of the second wave surpassed the numbers during the peak of the first wave in both sectors (Figure 3). The number of deaths has increased in both sectors.

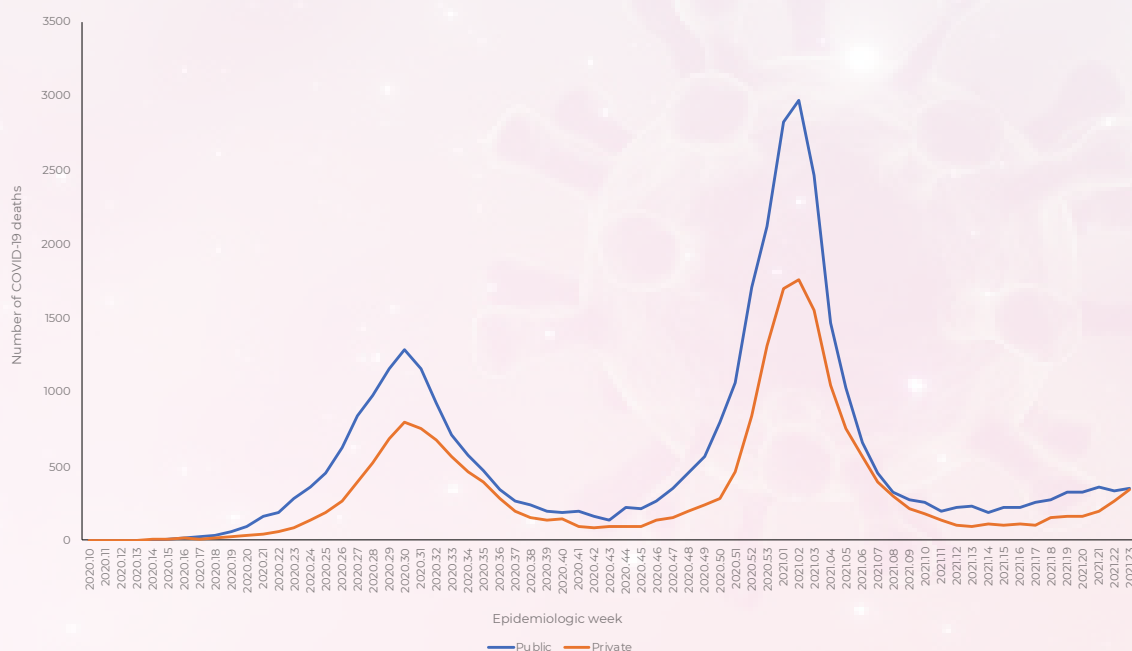


Figure 3. Number of in-hospital COVID-19 in-hospital deaths reported per week by health sector and epidemiologic week, South Africa, 5 March 2020-12 June 2021, n=57,813

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Most deaths were reported in Gauteng 14,523 (25%), KwaZulu-Natal 11,085 (19%), Western Cape 10,250 (18%) and Eastern Cape 9,504 (16%). The weekly numbers of deaths at the peak of the second wave surpassed the numbers during the peak of the first wave in all provinces except Free State. The numbers of COVID-19 deaths have increased in Gauteng, Northern Cape, North West and Free State (Figures 4a and 4b).

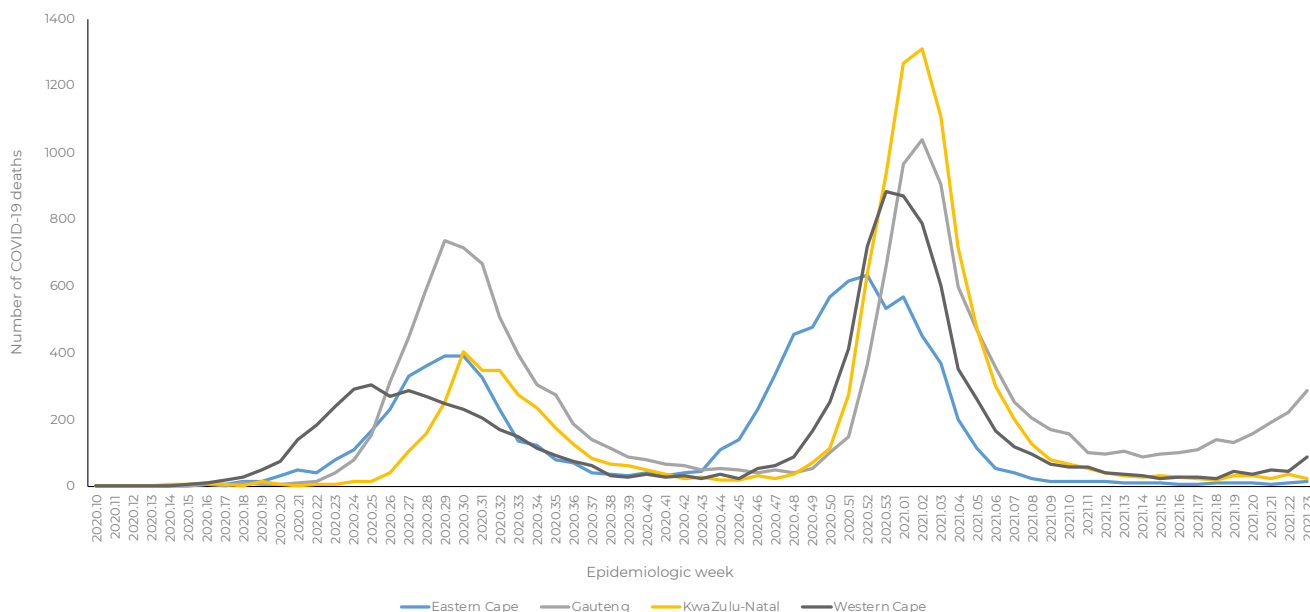


Figure 4a. Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-12 June 2021, n=57,813

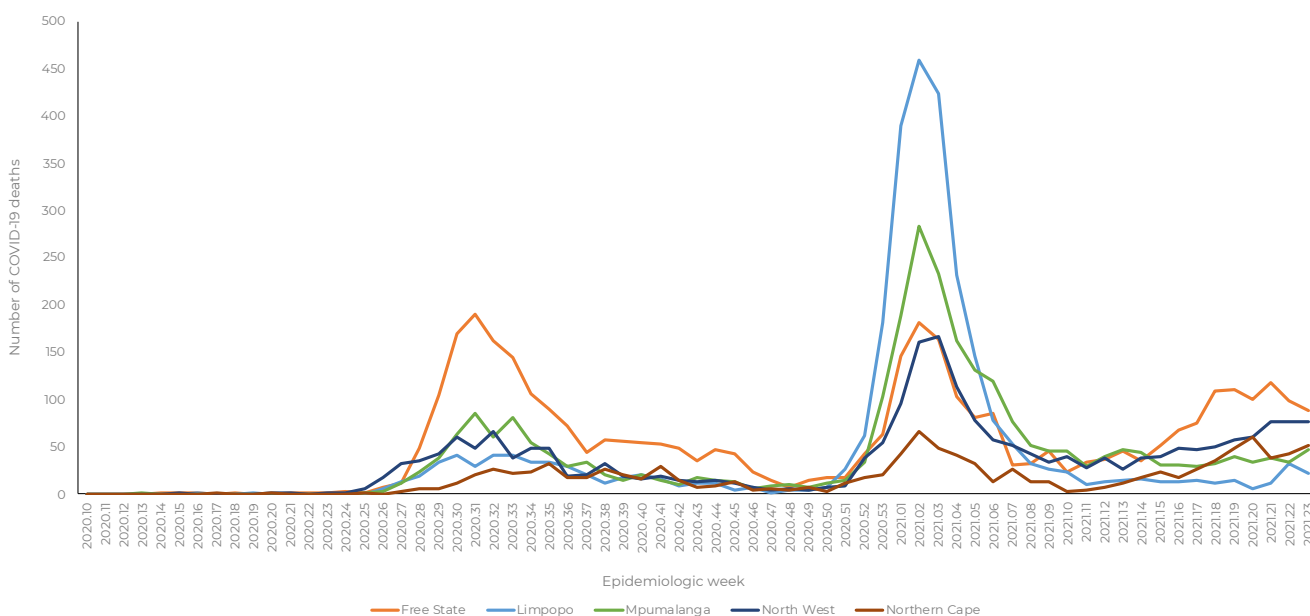


Figure 4b. Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-12 June 2021, n=57,813

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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 2020-12 June 2021

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative Admissions / 100,000	Cumulative deaths	Cumulative deaths / 100,000
Eastern Cape	6734001	32090	476.5	9504	141.1
Free State	2928903	18300	624.8	3630	123.9
Gauteng	15488137	77,814	502.4	14523	93.8
KwaZulu-Natal	11531628	50021	433.8	11083	96.1
Limpopo	5852553	10075	172.1	2799	47.8
Mpumalanga	4679786	11263	240.7	2664	56.9
North West	4108816	17,526	426.5	2270	55.2
Northern Cape	1292786	5,802	448.8	1088	84.2
Western Cape	7005741	61,235	874.1	10249	146.3
South Africa	59622350	284,126	476.5	57,810	97.0

*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 25 of 52 (48%) districts across the country that reported increased admissions over the previous 14 days, Amathole, Buffalo City, Nelson Mandela Metro, O R Tambo and Sarah Baartman (Eastern Cape), City of Johannesburg Metro, City of Tshwane Metro, Ekurhuleni Metro and West Rand (Gauteng), Amajuba, eThekweni Metro, Harry Gwala, King Cetshwayo, Ugu, uMgungundlovu, Umzinyathi, UThukela and Zululand (KwaZulu-Natal), Mopani (Limpopo), Ehlanzeni (Mpumalanga), and Cape Winelands, Central Karoo and City of Cape Town Metro, Garden Route and Overberg (Western Cape) (Appendix 1).

Table 3. Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, South Africa, 15 May-12 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	10.93	17.36	58.82	1.29	1.93	50.00
Free State	81.00	59.64	-26.37	15.64	13.36	-14.61
Gauteng	235.00	325.50	38.51	25.07	36.36	45.01
KwaZulu-Natal	24.86	30.21	21.55	3.79	4.21	11.32
Limpopo	11.71	18.29	56.10	1.29	3.86	200.00
Mpumalanga	28.29	28.71	1.52	5.14	5.79	12.50
North West	68.57	64.50	-5.94	9.79	10.86	10.95
Northern Cape	29.36	20.50	-30.17	7.14	6.79	-5.00
Western Cape	53.86	77.43	43.77	6.07	9.43	55.29
South Africa	10.93	17.36	58.82	1.29	1.93	50.00

* 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 (Figure 5).

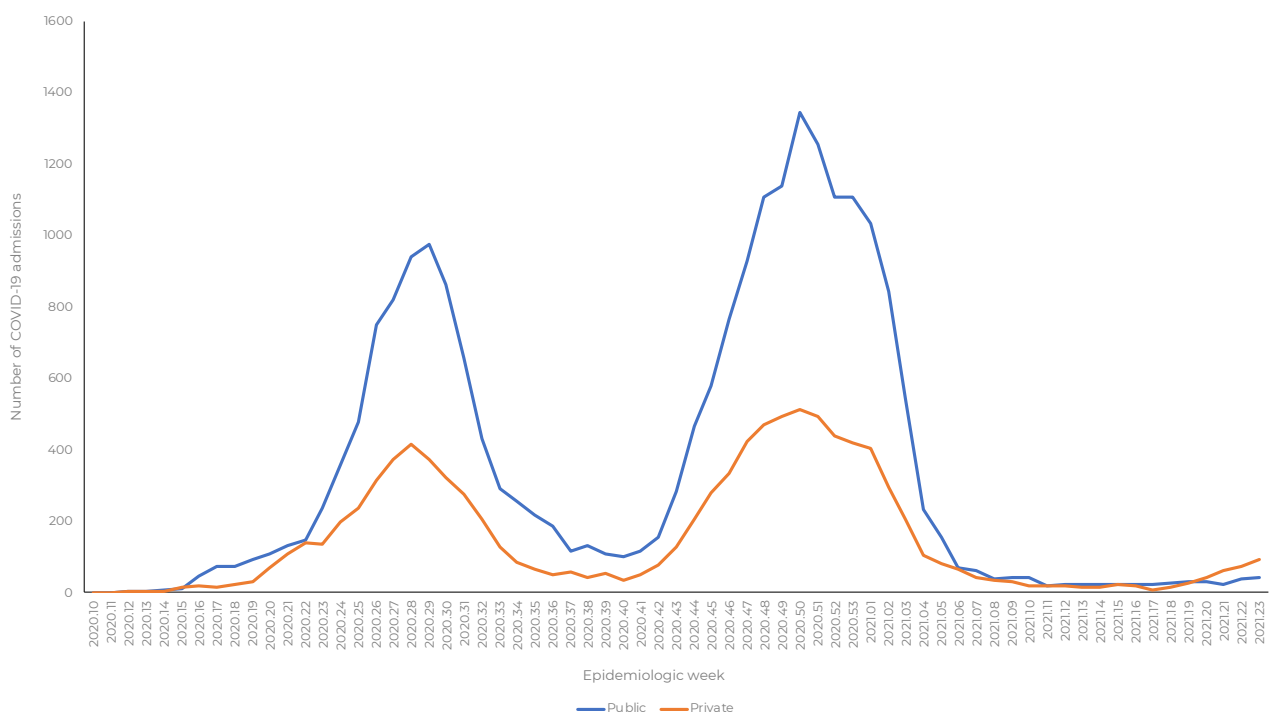


Figure 5: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-12 June 2021, n=32,090

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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 four weeks, with highest increase in Nelson Mandela Metro.

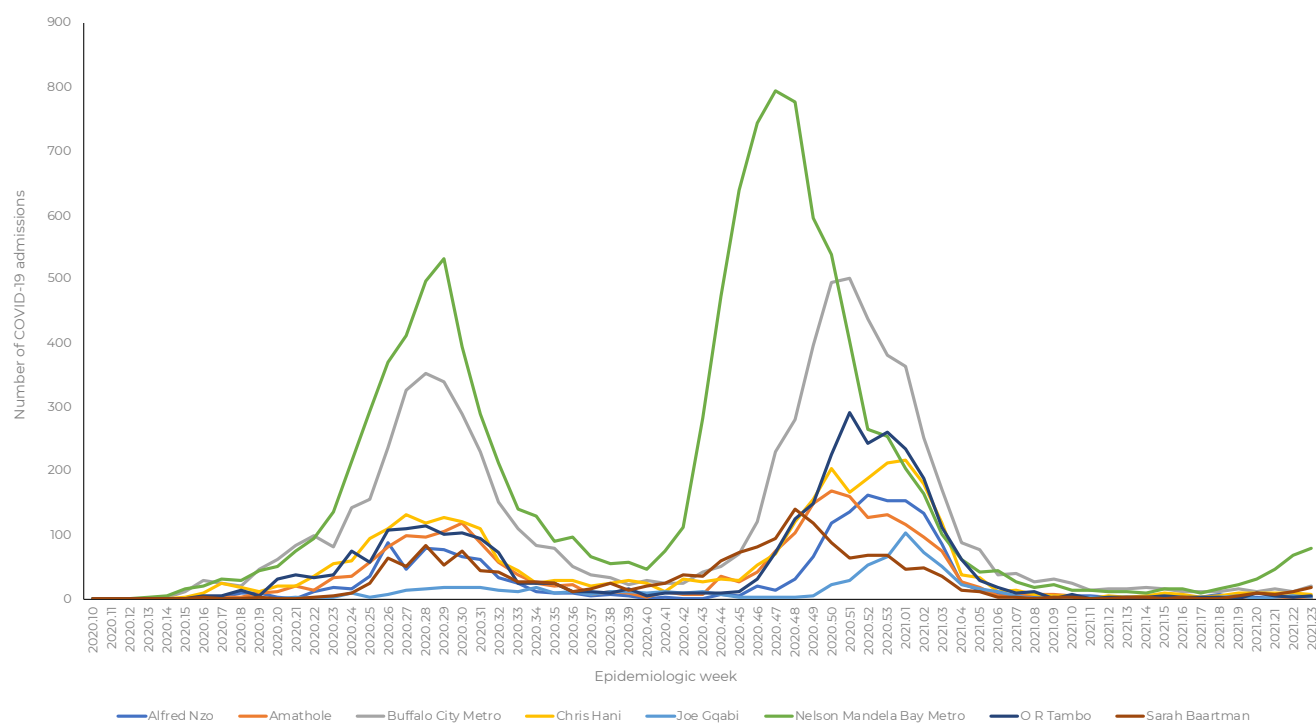


Figure 6. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-12 June 2021, n=32,090

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

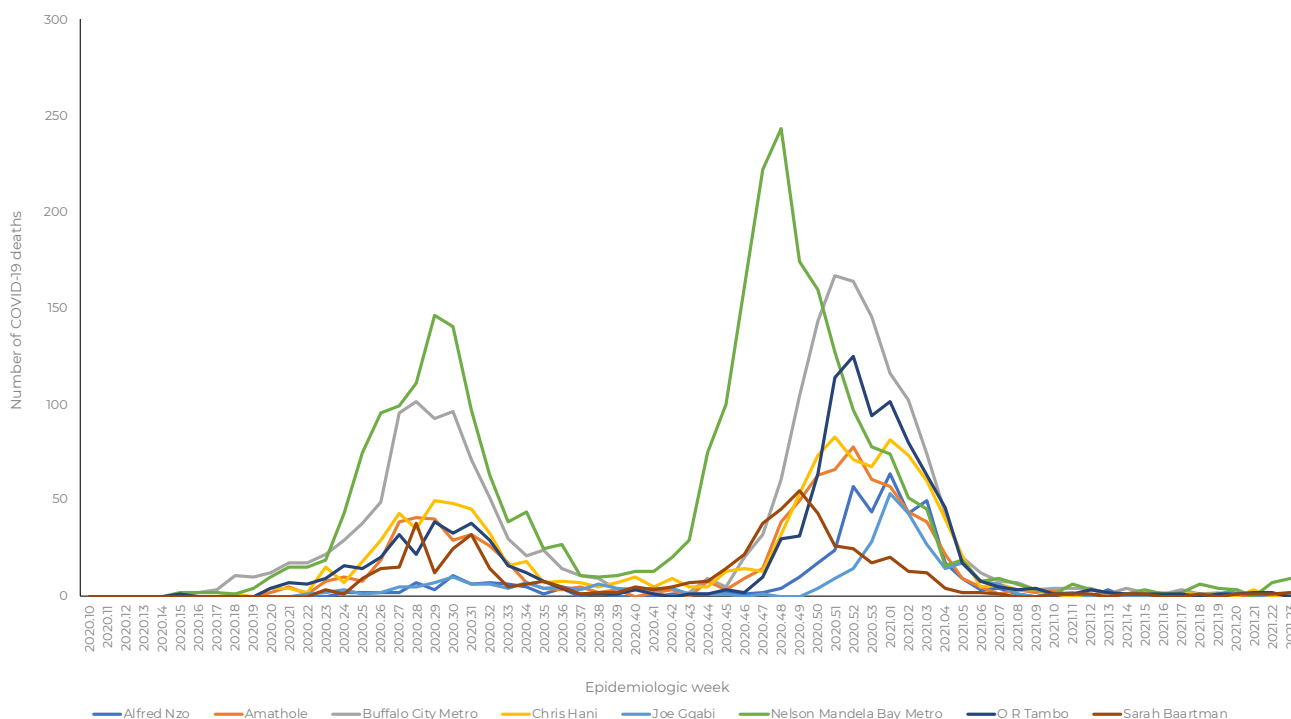


Figure 7. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-12 June 2021, n=9,504

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There was an increase the average COVID-19 admissions comparing the previous 14 days and the current 14 days in Alfred Nzo, Buffalo City Metro, Joe Gqabi, Nelson Mandela Bay and Sarah Baartman (Table 4). The highest percentage change in admissions was in Alfred Nzo.

Table 4: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 15 May-12 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	0.29	0.57	100.00	0.07	0.00	-100.00
Amathole	0.00	0.07	0.00	0.07	0.00	-100.00
Buffalo City Metro	1.79	2.14	20.00	0.14	0.14	0.00
Chris Hani	1.21	1.07	-11.76	0.21	0.14	-33.33
Joe Gqabi	0.29	0.50	75.00	0.21	0.14	-33.33
Nelson Mandela Bay	5.43	10.50	93.42	0.21	1.14	433.33
O R Tambo	0.86	0.50	-41.67	0.21	0.14	-33.33
Sarah Baartman	1.07	2.00	86.67	0.14	0.21	50.00

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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 have increased in both sectors. The weekly numbers of admissions in the private sector in the third wave have surpassed the peak of the second wave.

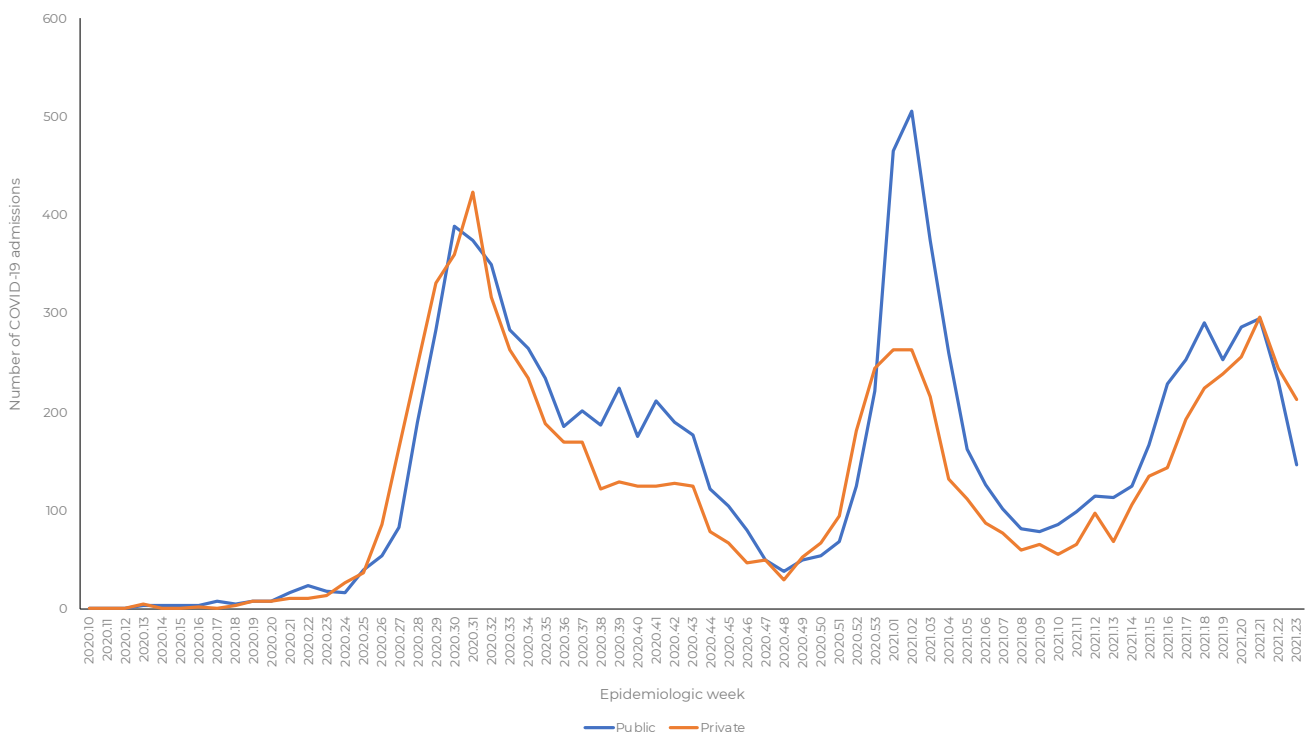


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-12 June 2021, n=18,300

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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.

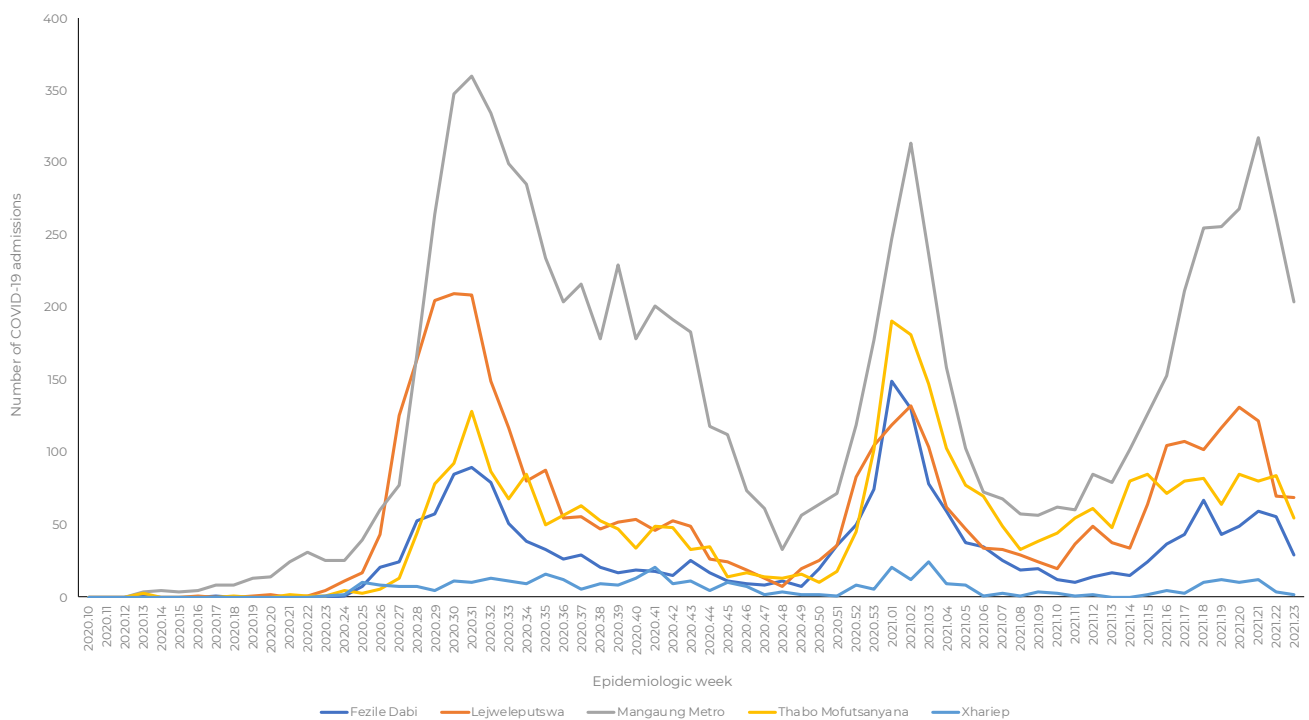


Figure 9: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-12 June 2021, n=18,300

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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 Mofutsanyana, Lejweleputswa and Fezile Dabi.

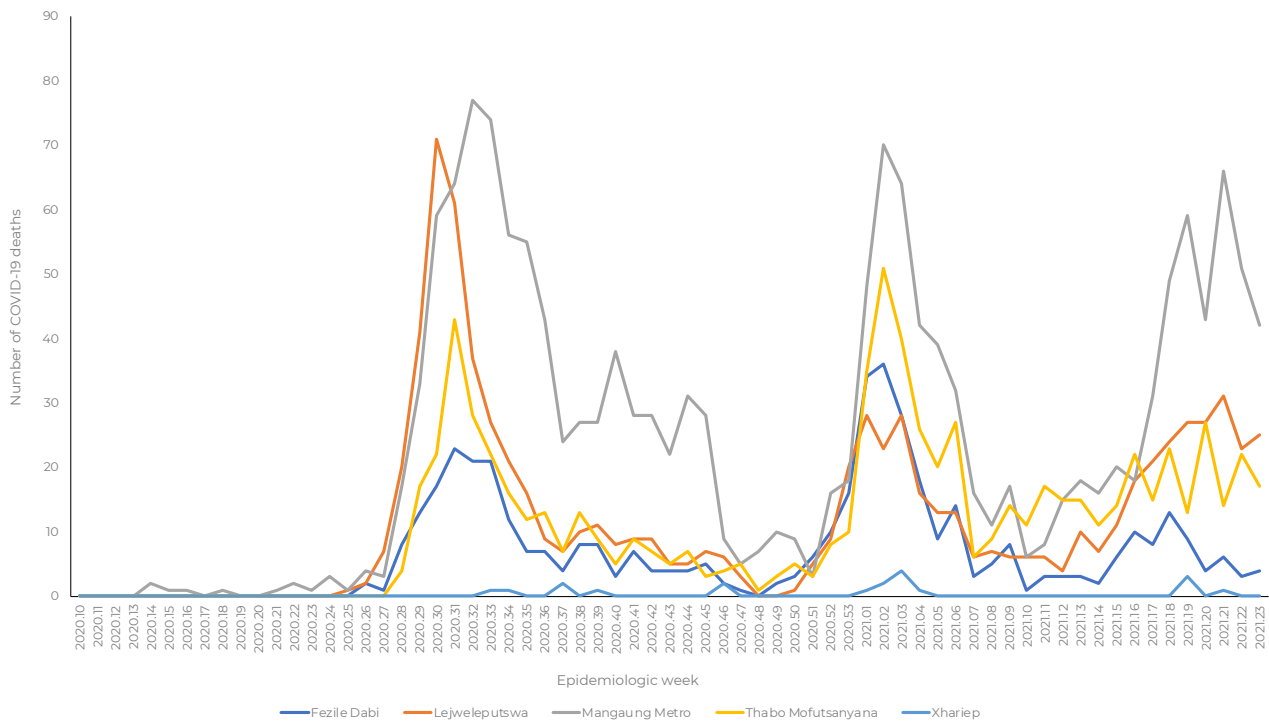


Figure 10: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-12 June 2021, n=3,630

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There was no increase 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, 15 May-12 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	7.71	6.07	-21.30	0.71	0.50	-30.00
Lejweleputswa	18.07	9.93	-45.06	4.14	3.43	-17.24
Mangaung Metro	41.86	33.29	-20.48	7.79	6.64	-14.68
Thabo Mofutsanyana	11.79	9.93	-15.76	2.93	2.79	-4.88
Xhariep	1.57	0.43	-72.73	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.

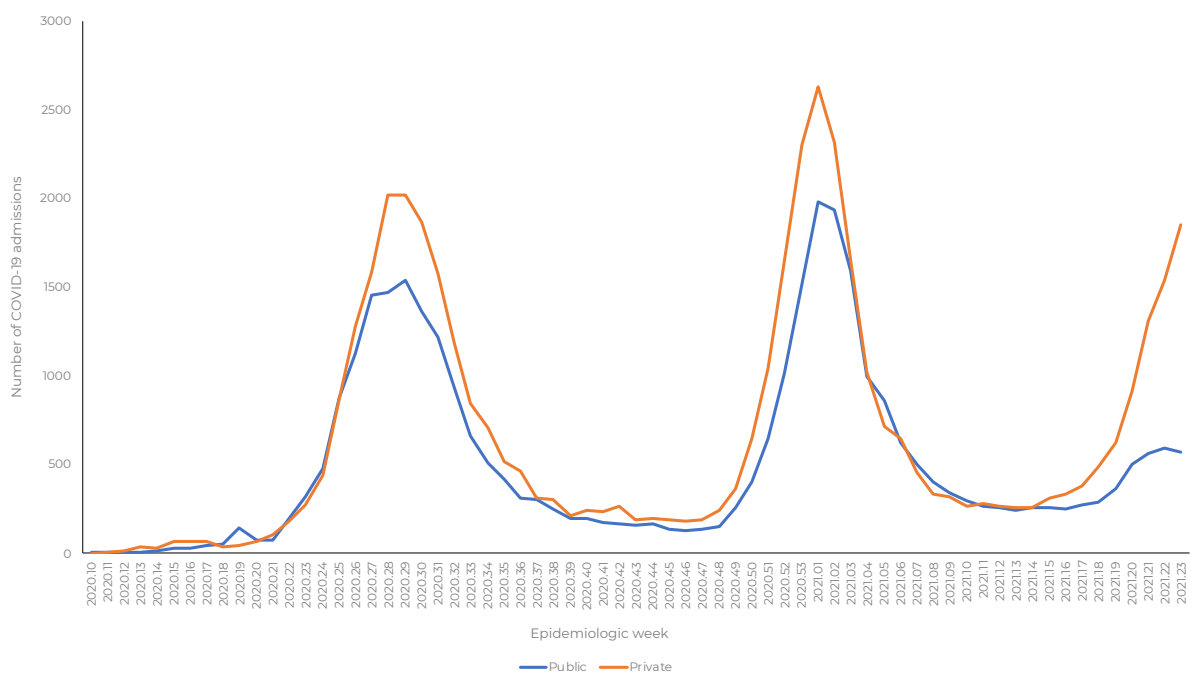


Figure 11: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-12 June 2021, n=77,814

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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.

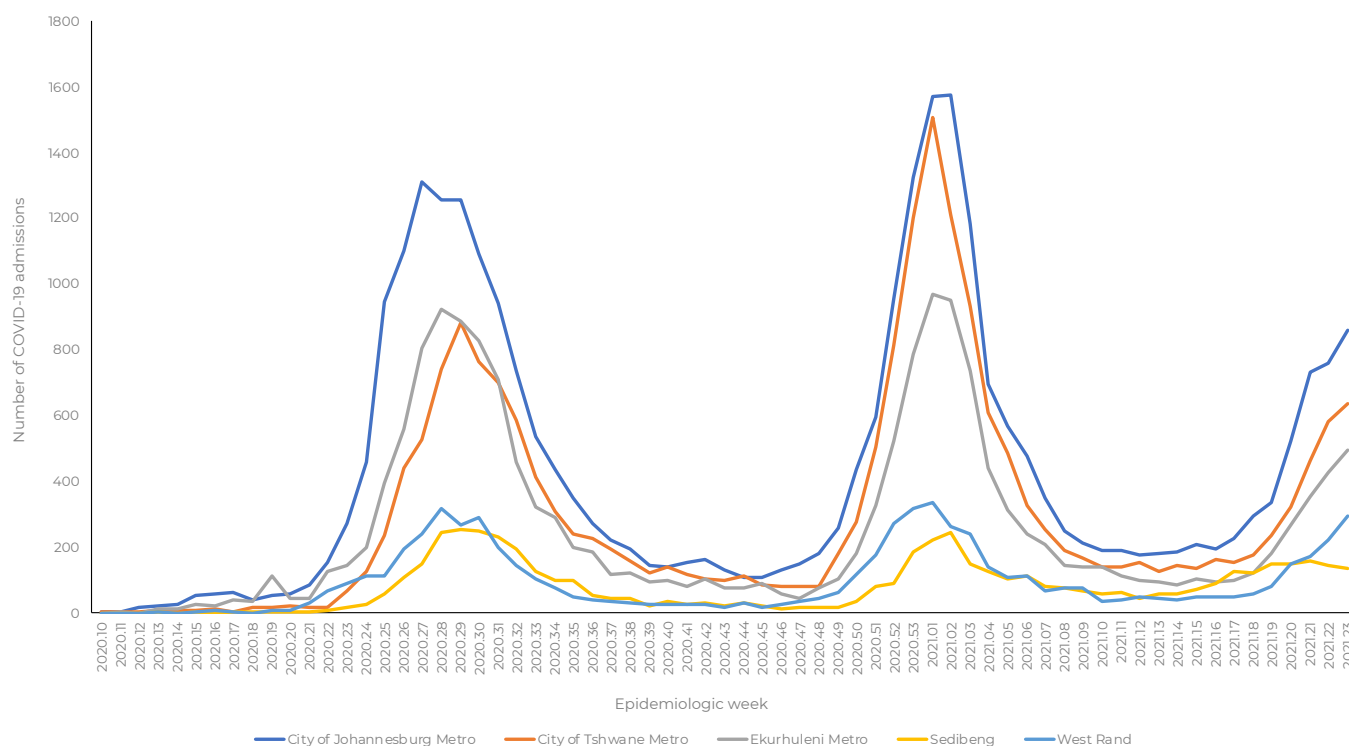


Figure 12: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-12 June 2021, n=77,814

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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.

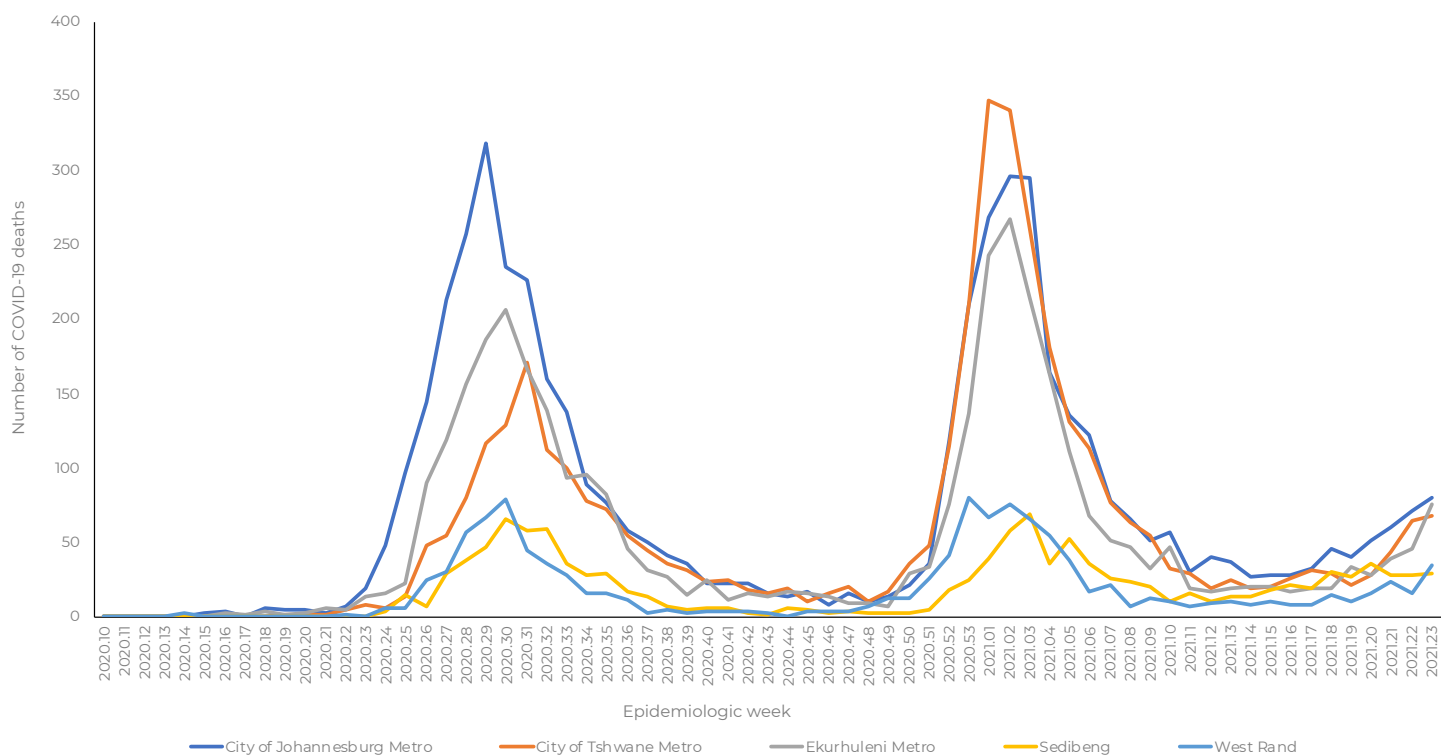


Figure 13: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-12 June 2021, n=14,523

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All districts showed increase in COVID-19 admissions between previous 14 days average admissions and current 14 days average admissions except Sedibeng. 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, 15 May-12 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	89.64	115.57	28.92	7.93	10.79	36.04
City of Tshwane Metro	56.14	86.93	54.83	5.07	9.43	85.92
Ekurhuleni Metro	44.50	65.86	47.99	4.79	8.57	79.10
Sedibeng	21.86	20.07	-8.17	4.50	4.07	-9.52
West Rand	22.86	37.07	62.19	2.79	3.50	25.64

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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). Since the end of the second wave, the numbers of COVID-19 admissions have been low in both sectors but small increases in admissions have been observed in the private sector since week 20.

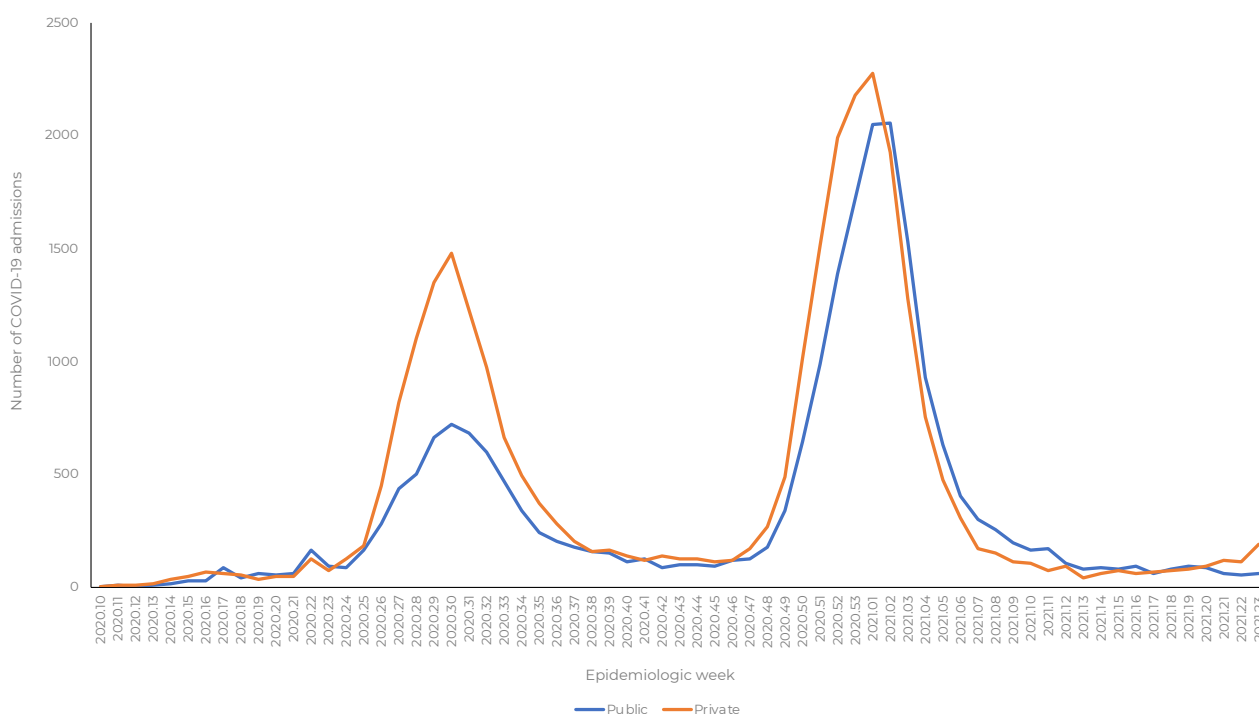


Figure 14: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-12 June 2021, n=50,021

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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). Since the end of the second wave, the numbers of COVID-19 admissions have remained low in all districts but small increases have been observed in eThekweni Metro.

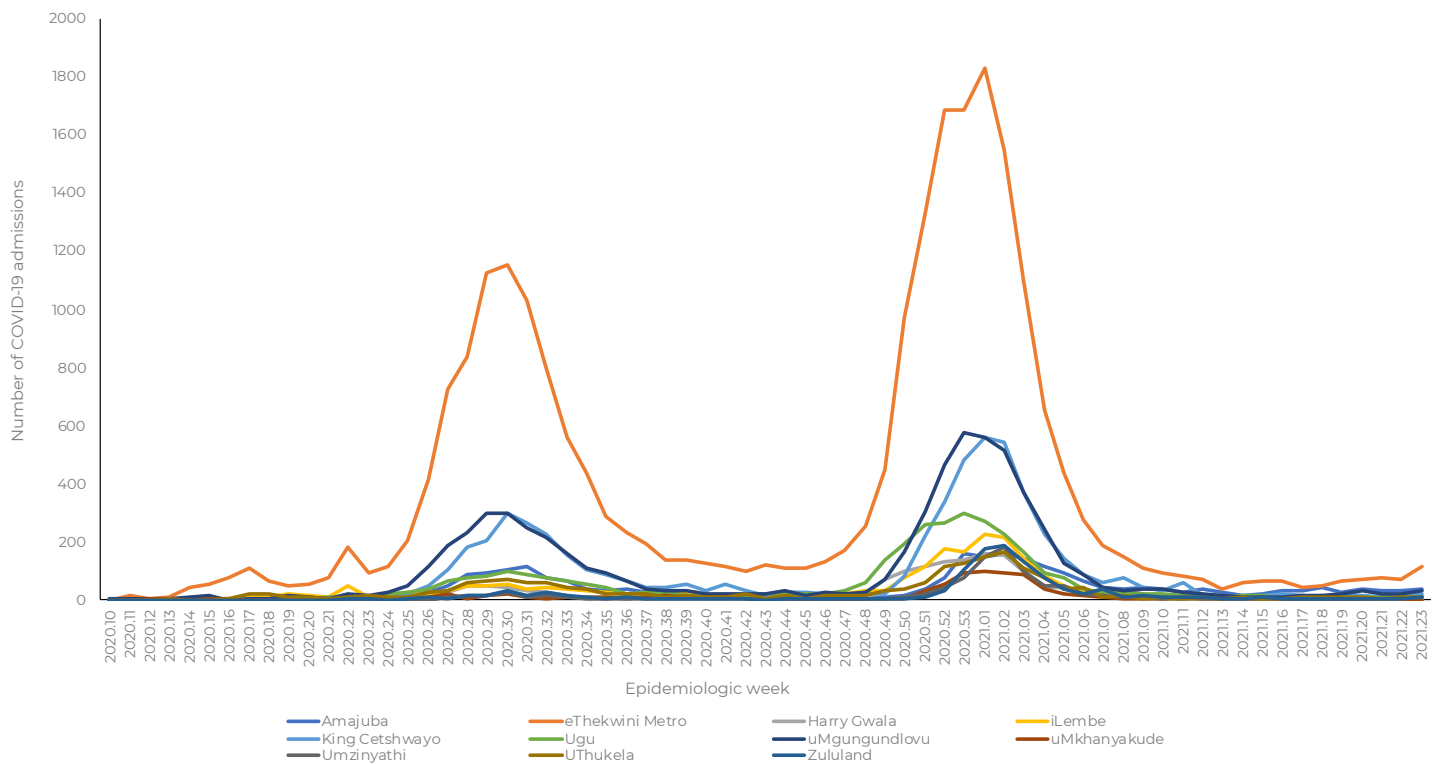


Figure 15: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-12 June 2021, n=50,021

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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.

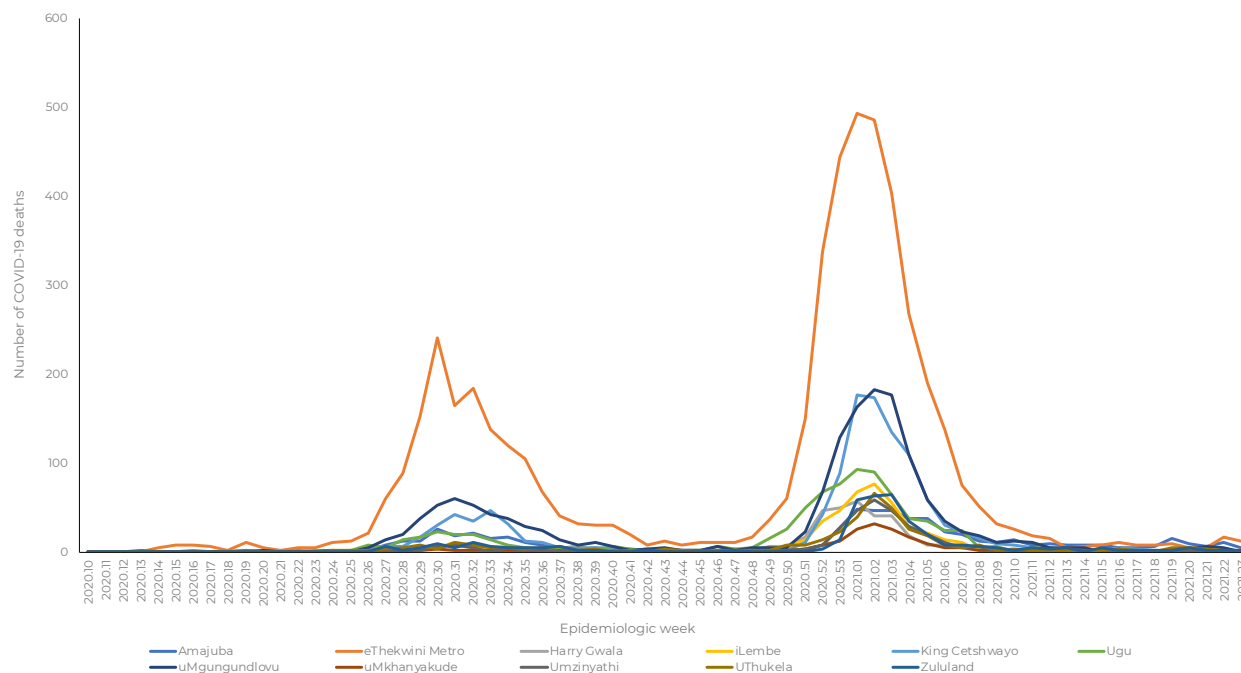


Figure 16: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-12 June 2021, n=11,085

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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 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, 15 May-12 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	4.64	4.79	3.08	1.07	1.07	0.00
eThekweni Metro	10.50	13.14	25.17	0.64	2.00	211.11
Harry Gwala	0.07	1.36	1800.00	0.00	0.00	0.00
iLembe	0.50	0.64	28.57	0.07	0.21	200.00
King Cetshwayo	1.64	1.93	17.39	0.14	0.14	0.00
Ugu	1.21	1.29	5.88	0.14	0.14	0.00
uMgungundlovu	3.71	3.93	5.77	0.64	0.29	-55.56
uMkhanyakude	0.29	0.14	-50.00	0.00	0.07	0.00
Umzinyathi	0.50	0.93	85.71	0.14	0.07	-50.00
UThukela	1.07	1.50	40.00	0.50	0.07	-85.71
Zululand	0.71	0.57	-20.00	0.43	0.14	-66.67

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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 the private sector since week 19.

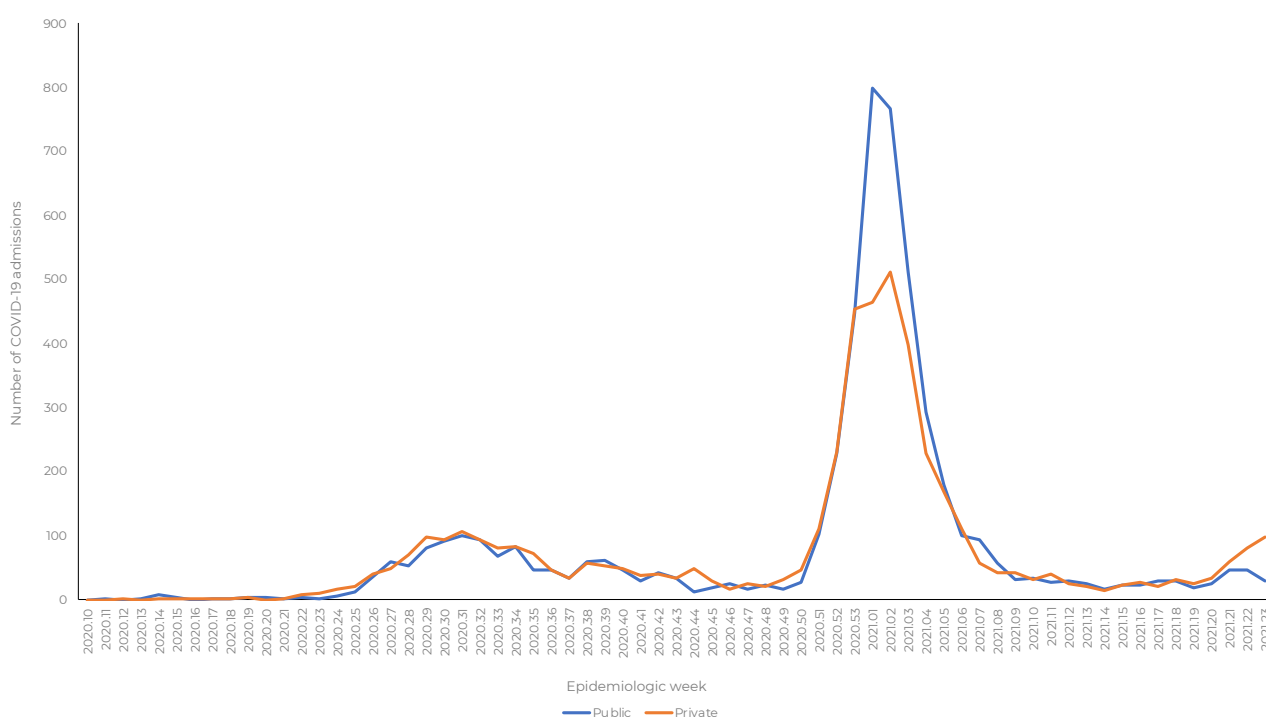


Figure 17: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-12 June 2021, n=10,075

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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 20.

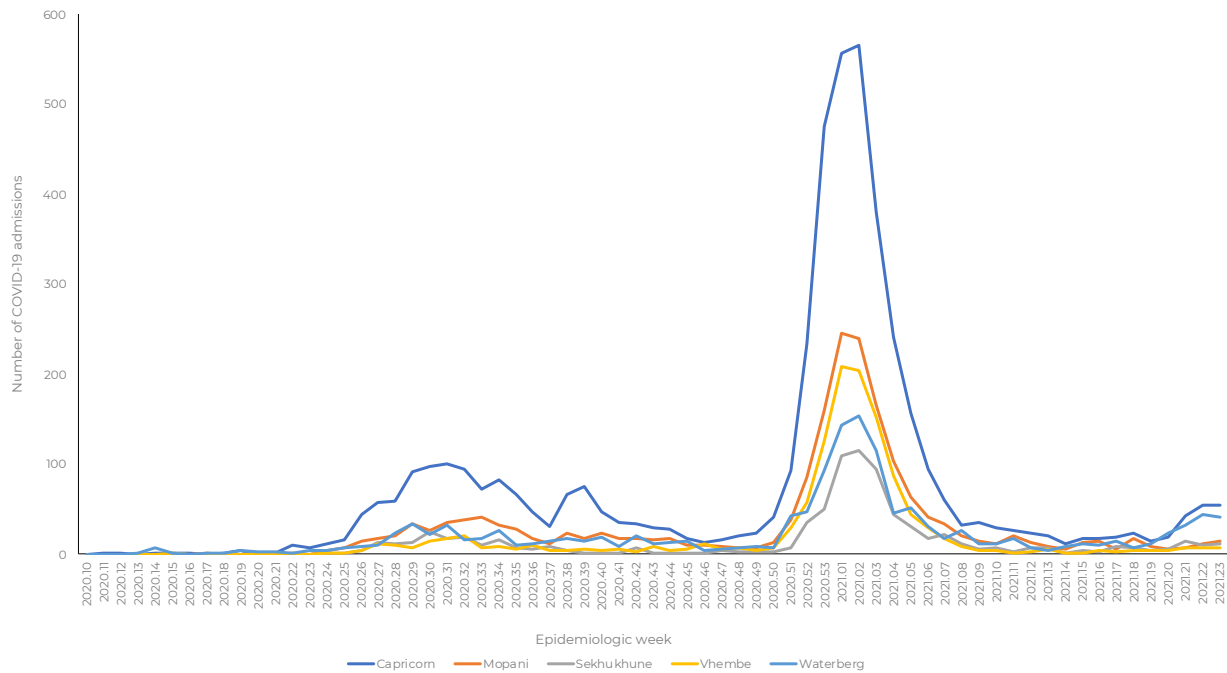


Figure 18: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-12 June 2021, n=10,075

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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.

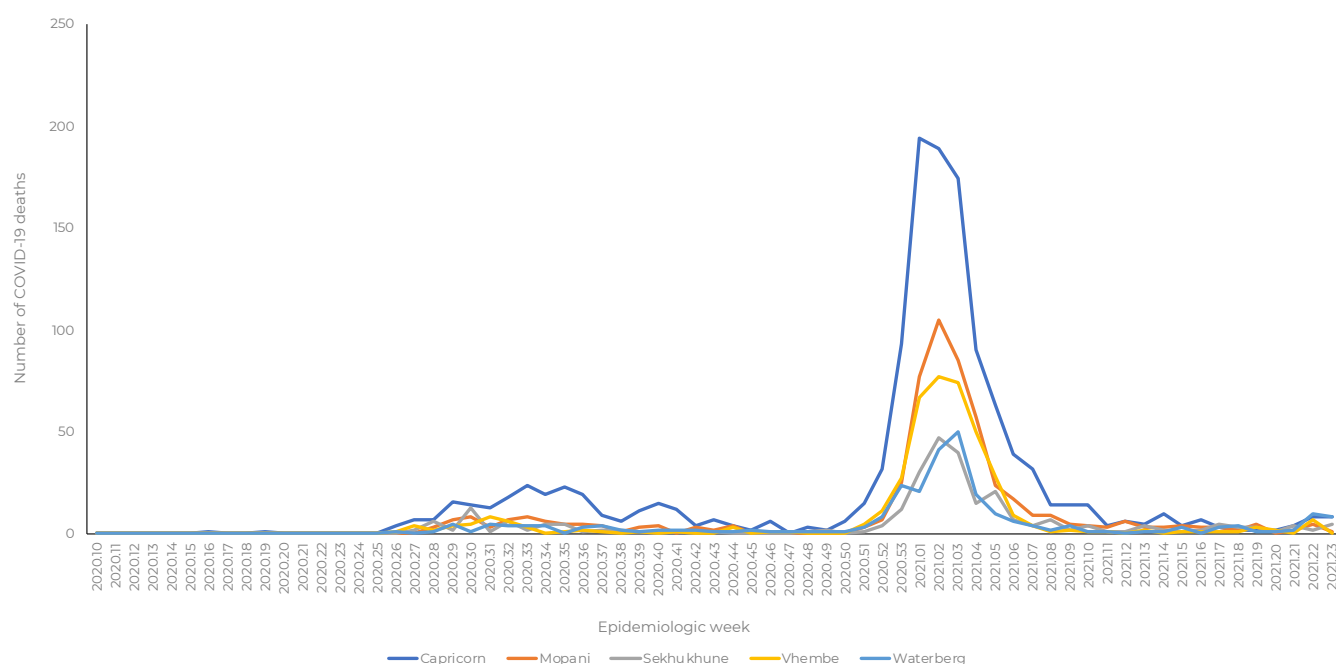


Figure 19: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-12 June 2021, n=2,799

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, 15 May-12 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	4.43	7.79	75.81	0.43	1.14	166.67
Mopani	1.00	1.86	85.71	0.14	0.43	200.00
Sekhukhune	1.43	1.50	5.00	0.36	0.50	40.00
Vhembe	0.86	1.00	16.67	0.14	0.50	250.00
Waterberg	4.00	6.14	53.57	0.21	1.29	500.00

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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.

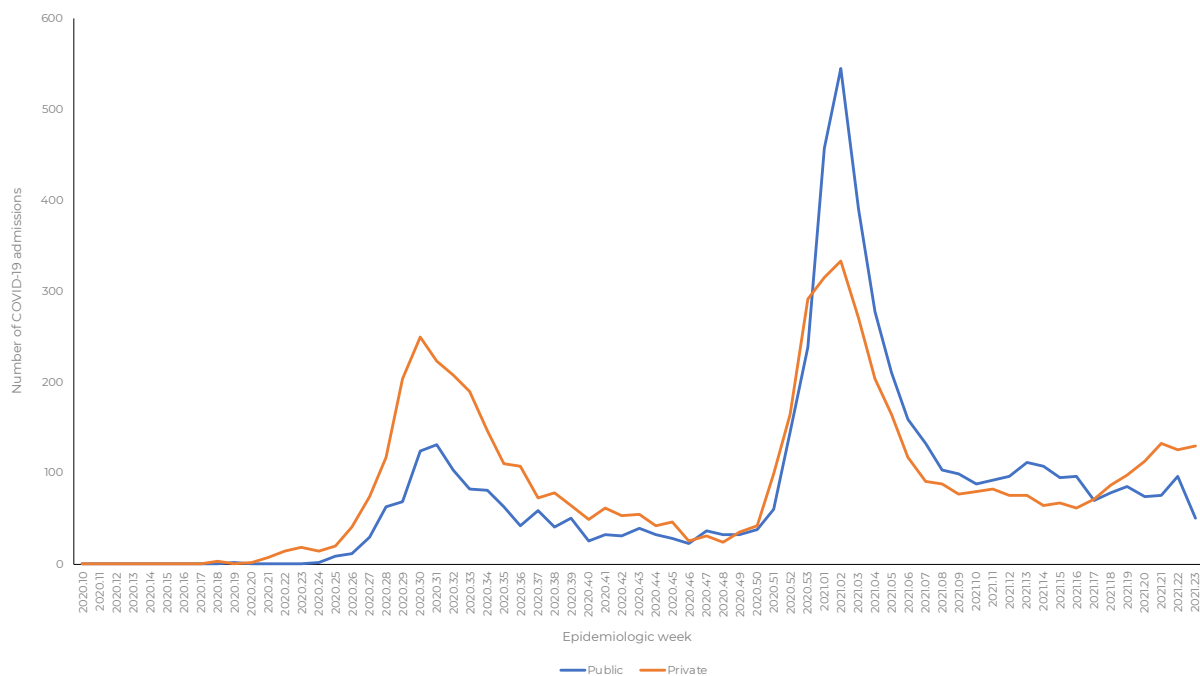


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-12 June 2021, n=11,263

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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 Nkangala and Gert Sibande districts.

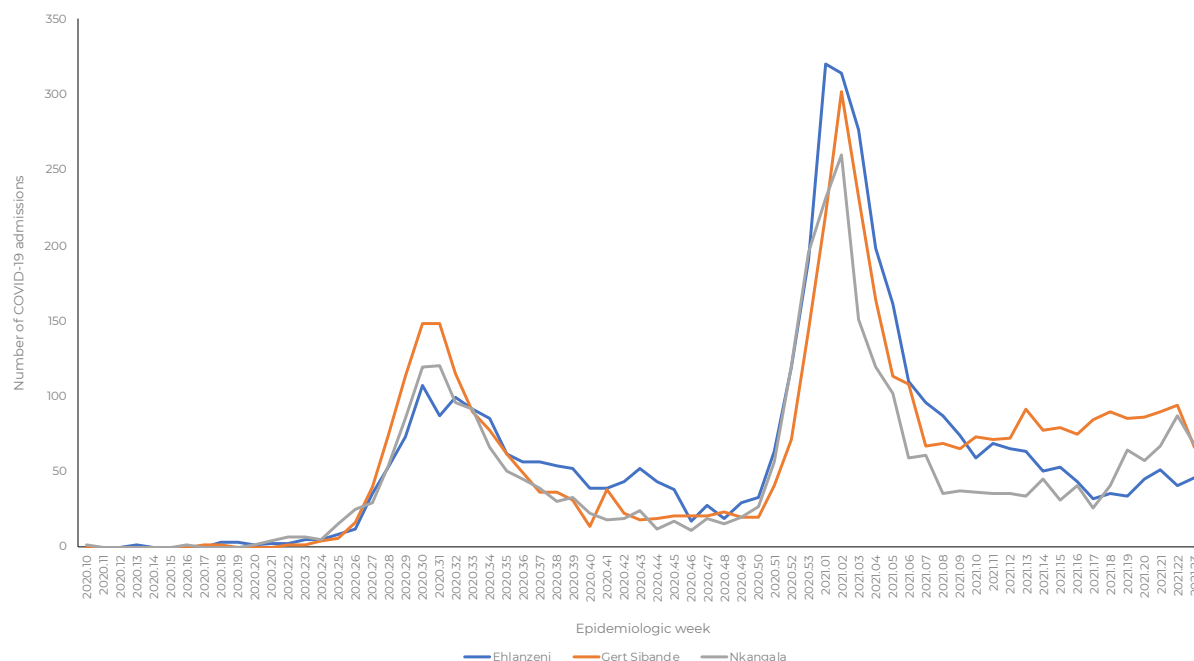


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-12 June 2021, n=11,263

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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 Nkangala and Gert Sibande.

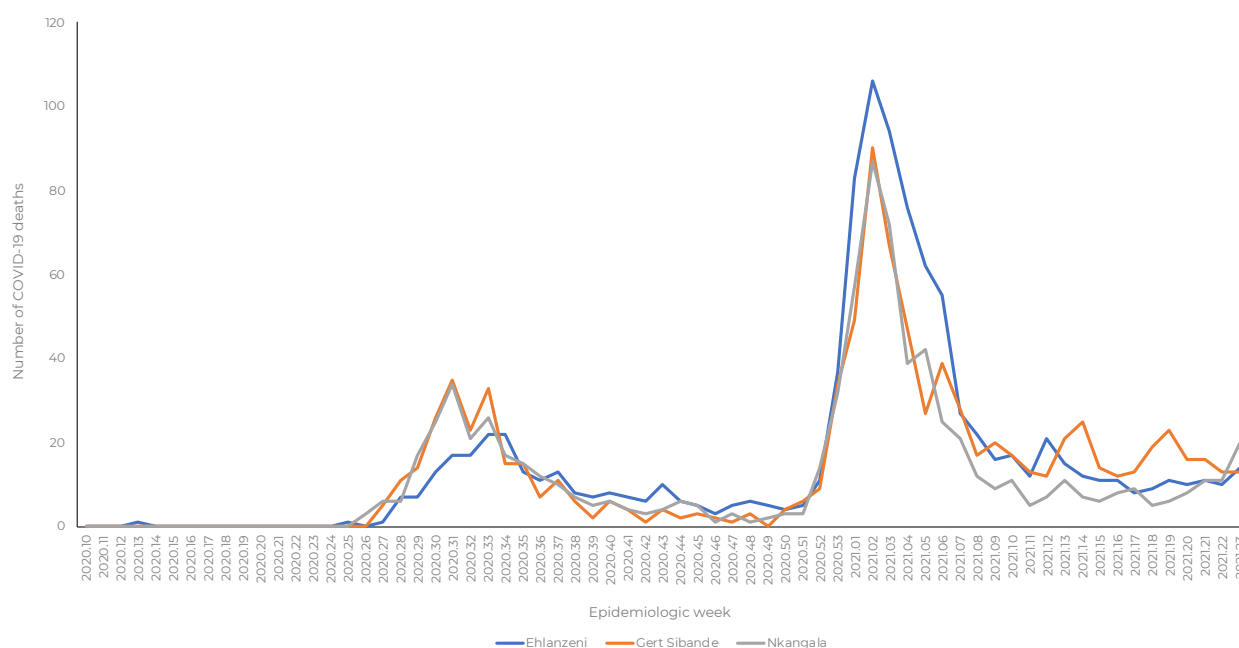


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-12 June 2021, n=2,664

There has been an increase in COVID-19 admission between previous 14 days average admissions and current 14 days average admissions in 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, 15 May-12 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	6.21	-9.37	1.50	1.71	14.29
Gert Sibande	12.57	11.43	-9.09	2.29	1.86	-18.75
Nkangala	8.86	11.07	25.00	1.36	2.21	63.16

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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.

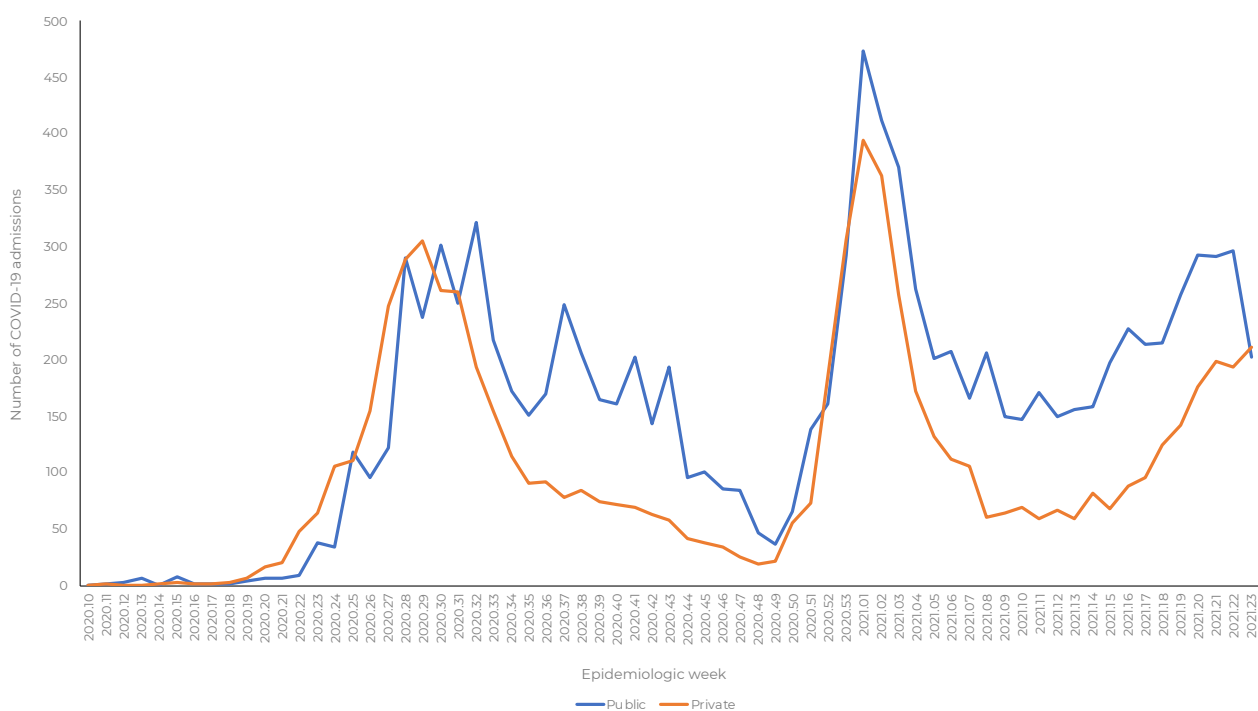


Figure 23: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-12 June 2021, n=17,526

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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 has begun to increase in Bojanala Platinum and Dr Ruth Segomotsi Mompoti.

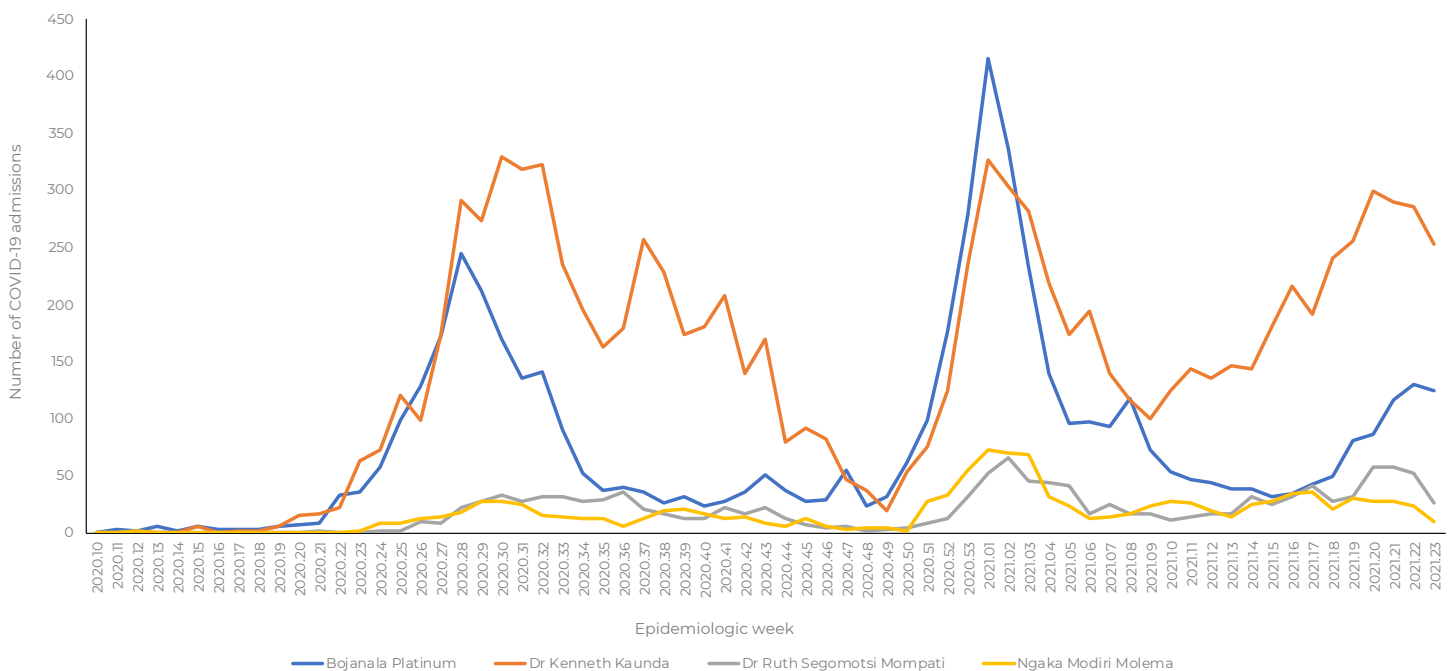


Figure 24: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-12 June 2021, n=17,526

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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.

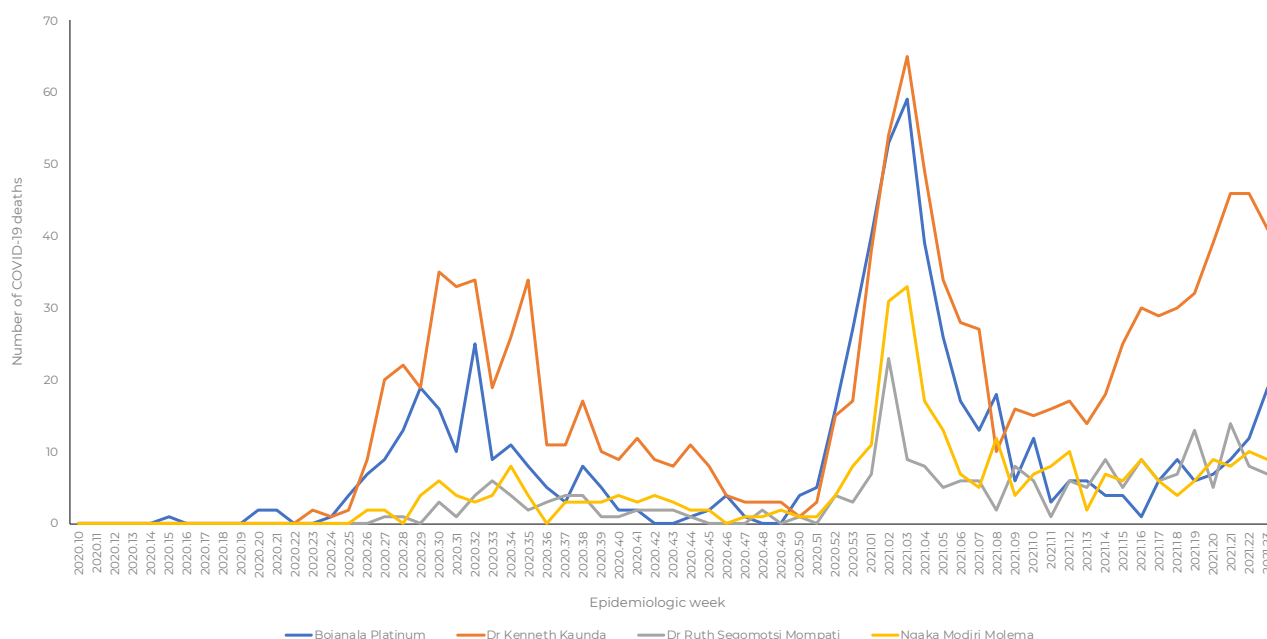


Figure 25: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-12 June 2021, n = 2,270

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, 15 May-12 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	14.43	18.14	25.74	1.14	2.21	93.75
Dr Kenneth Kaunda	42.07	38.43	-8.66	6.07	6.21	2.35
Dr Ruth Segomotsi Mompoti	8.21	5.57	-32.17	1.36	1.07	-21.05
Ngaka Modiri Molema	3.86	2.36	-38.89	1.21	1.36	11.76

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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. The weekly numbers of admissions in the private sector in the third wave have surpassed the numbers during the peak of the second wave.

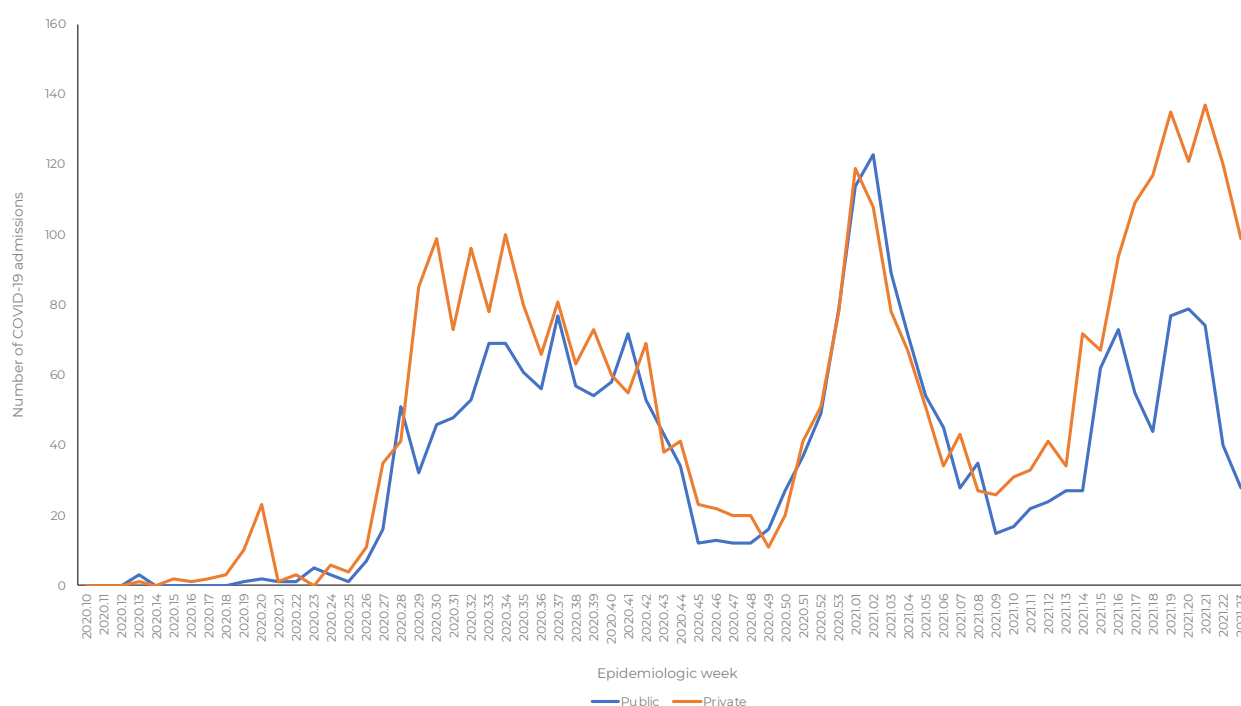


Figure 26: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-12 June 2021, n=5,802

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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.

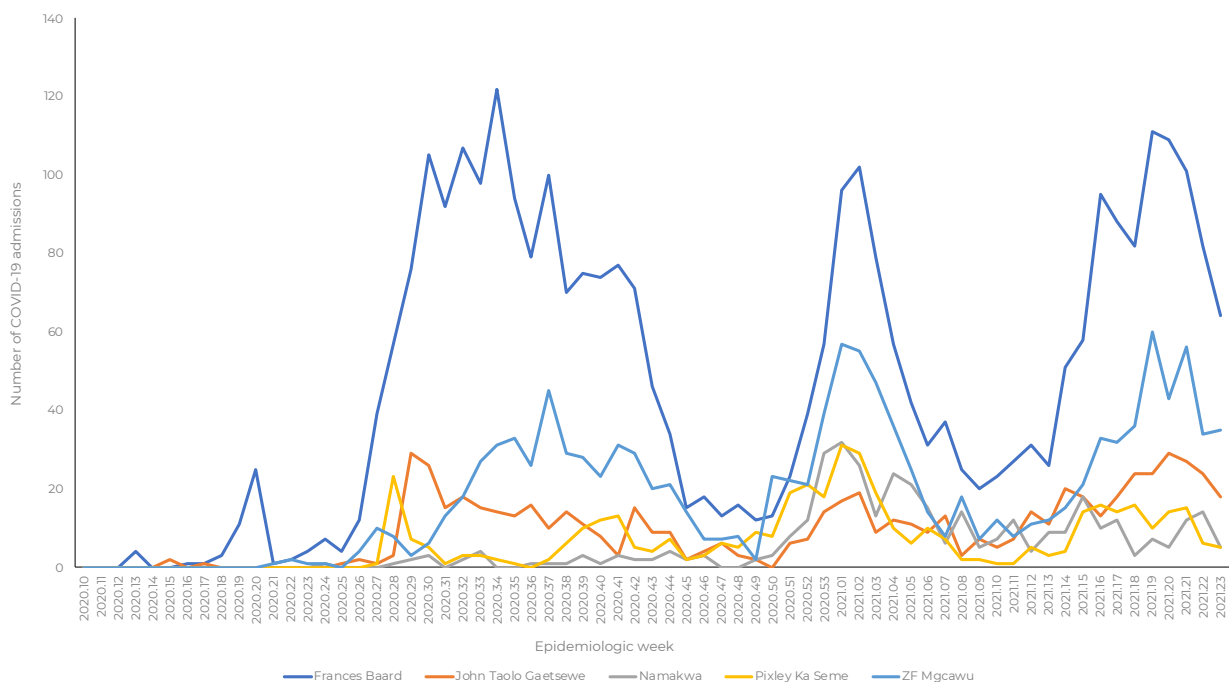


Figure 27: Number of reported COVID-19 admissions, by district and epidemiologic week, Northern Cape, 5 March 2020-12 June 2021, n=5,802

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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 district.

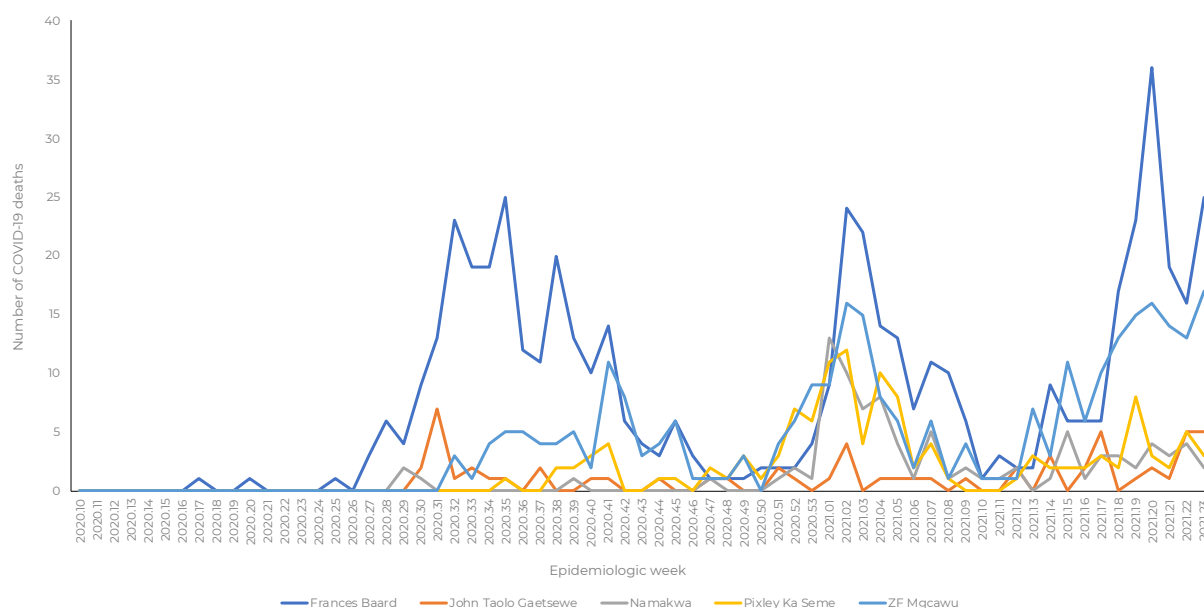


Figure 28: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-12 June 2021, n=1,088

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, 15 May-12 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	15.00	10.43	-30.48	3.93	2.93	-25.45
John Taolo Gaetsewe	4.00	3.00	-25.00	0.21	0.71	233.33
Namakwa	1.21	1.36	11.76	0.50	0.43	-14.29
Pixley Ka Seme	2.07	0.79	-62.07	0.36	0.57	60.00
ZF Mgcawu	0.00	0.00	0.00	0.00	0.00	0.00

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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.

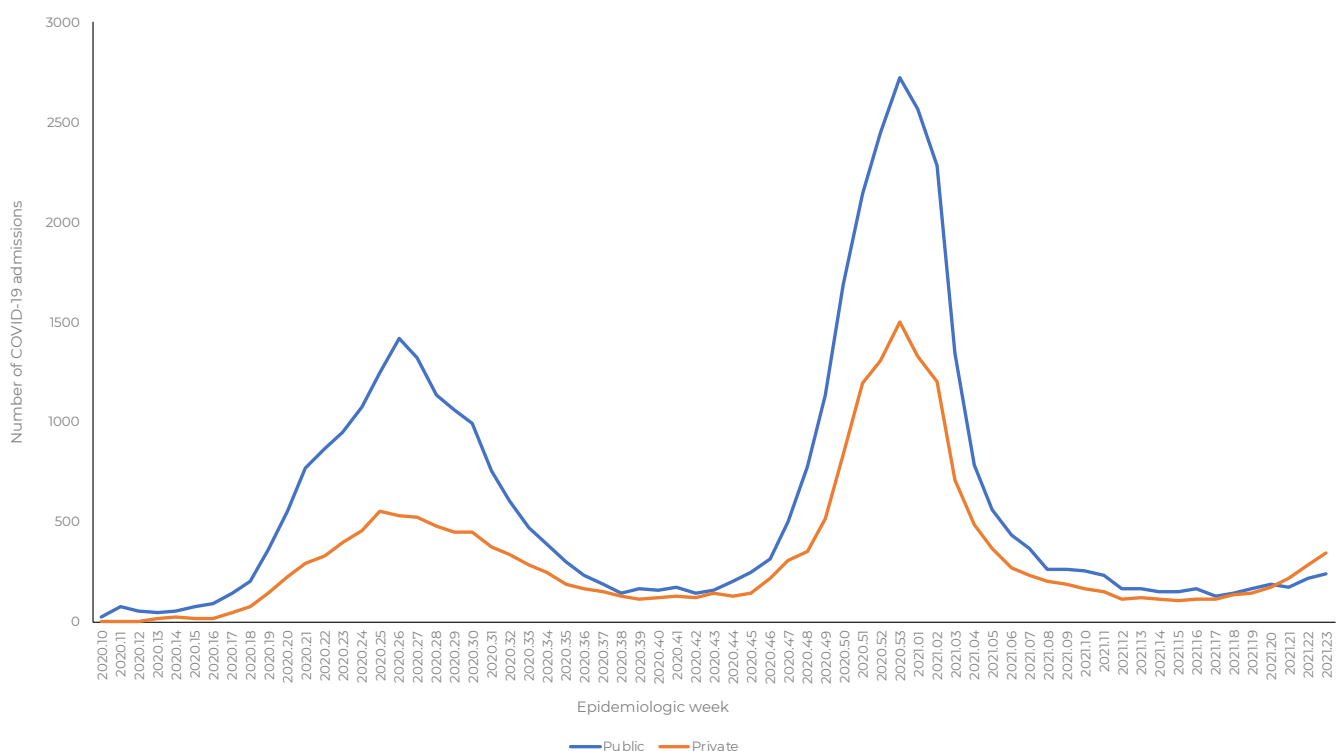


Figure 29: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-12 June 2021, n=61,235

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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 small increases in admissions all districts, particularly City of Cape Town.

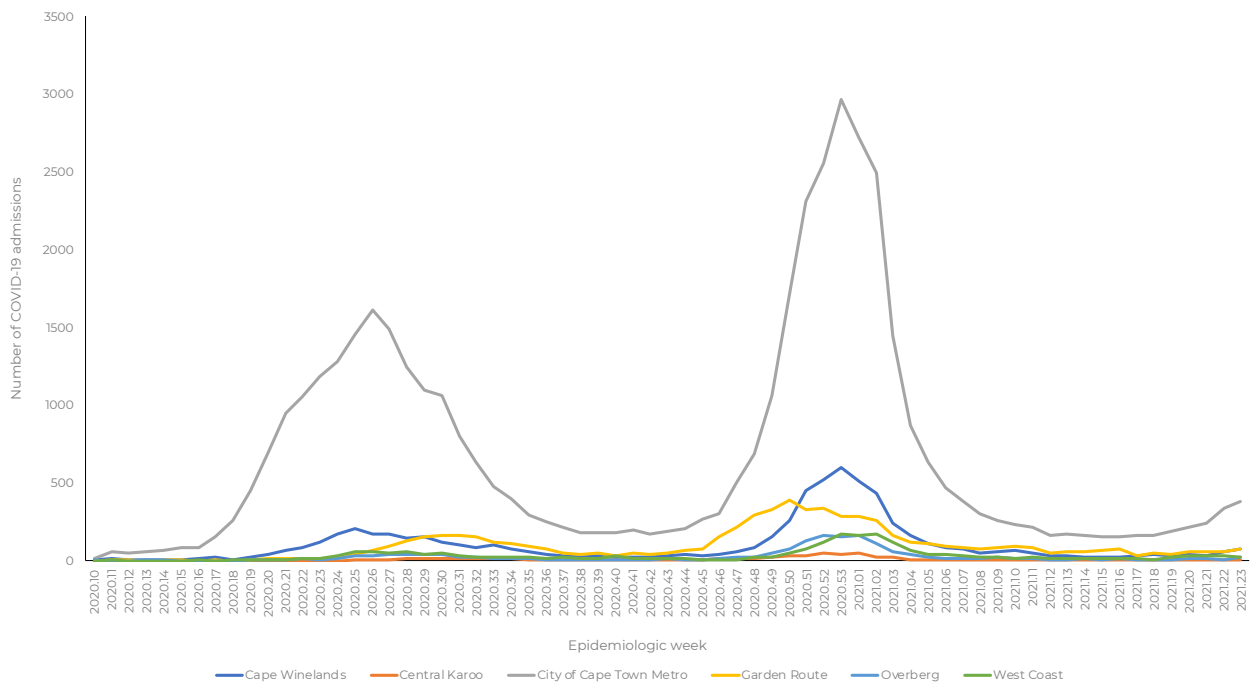


Figure 30: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-12 June 2021, n=61,235

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 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.

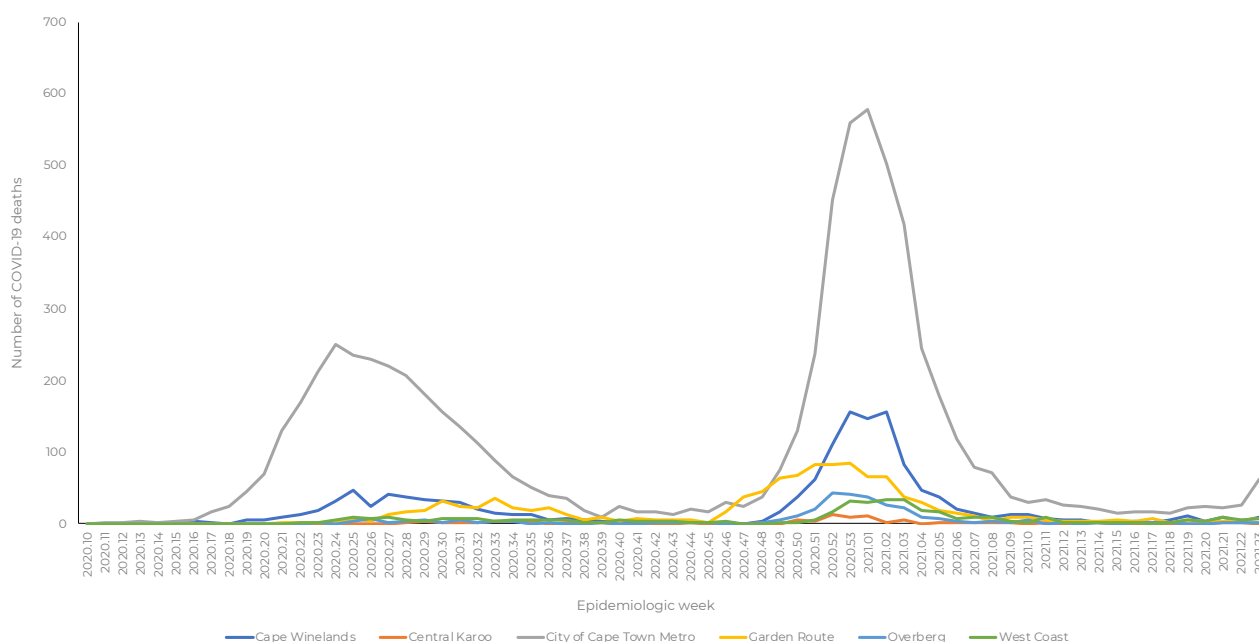


Figure 31: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-12 June 2021, n=10,250

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 Cape Winelands (Table 12).

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 15 May-12 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	5.57	9.71	74.36	1.00	0.93	-7.14
Central Karoo	0.43	0.64	50.00	0.14	0.07	-50.00
City of Cape Town Metro	32.71	51.36	56.99	3.36	6.36	89.36
Garden Route	8.36	9.50	13.68	0.57	0.93	62.50
Overberg	1.86	2.21	19.23	0.07	0.21	200.00
West Coast	4.93	4.00	-18.84	0.93	0.93	0.00

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 23 2021

APPENDIX

Table 13: Percentage average change in hospital admissions over 14 days, by district, South Africa, 29 May-12 June 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	1792	215.32	4	0.48	-33.33
	Amathole	2364	295.79	1	0.13	100.00
	Buffalo City Metro	7455	930.86	20	2.50	100.00
	Chris Hani	3332	457.91	7	0.96	-22.22
	Joe Gqabi	727	210.74	3	0.87	-25.00
	Nelson Mandela Bay Metro	11375	937.71	84	6.92	15.07
	O R Tambo	3262	212.90	4	0.26	33.33
	Sarah Baartman	1789	369.76	21	4.34	61.54
Free State	Fezile Dabi	1985	389.12	30	5.88	-49.15
	Lejweleputswa	3858	590.27	69	10.56	-6.76
	Mangaung Metro	8897	1021.56	213	24.46	-21.40
	Thabo Mofutsanyana	3216	420.49	57	7.45	-40.63
	Xhariep	395	305.15	2	1.55	-50.00
Gauteng	City of Johannesburg Metro	28994	494.23	887	15.12	12.99
	City of Tshwane Metro	20073	538.28	680	18.23	9.32
	Ekurhuleni Metro	17195	431.79	515	12.93	15.21
	Sedibeng	5288	553.41	142	14.86	-9.55
	West Rand	6404	670.76	299	31.32	29.44
KwaZulu-Natal	Amajuba	2455	430.31	38	6.66	22.58
	eThekweni Metro	23816	598.21	116	2.91	61.11
	Harry Gwala	1583	307.96	14	2.72	133.33
	iLembe	2162	311.29	3	0.43	-62.50
	King Cetshwayo	5675	584.65	19	1.96	90.00
	Ugu	3316	413.61	12	1.50	71.43
	uMgungundlovu	6375	554.62	33	2.87	37.50

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	803	116.90	0	0.00	-100.00
	Umzinyathi	910	160.33	9	1.59	125.00
	UThukela	1839	257.48	11	1.54	10.00
	Zululand	1091	123.86	7	0.79	600.00
Limpopo	Capricorn	4650	355.52	57	4.36	-1.72
	Mopani	1898	160.19	14	1.18	16.67
	Sekhukhune	843	70.82	11	0.92	0.00
	Vhembe	1242	87.02	7	0.49	0.00
	Waterberg	1452	195.63	44	5.93	-12.00
Mpumalanga	Ehlanzeni	4032	220.48	47	2.57	14.63
	Gert Sibande	4038	325.08	82	6.60	-20.39
	Nkangala	3229	200.70	71	4.41	-26.80
North West	Bojanala Platinum	5269	273.27	126	6.53	-8.03
	Dr Kenneth Kaunda	9919	1243.42	267	33.47	-19.82
	Dr Ruth Segomotsi Mompati	1279	270.36	28	5.92	-48.15
	Ngaka Modiri Molema	1137	124.96	10	1.10	-56.52
Northern Cape	Frances Baard	3145	757.99	66	15.91	-26.67
	John Taolo Gaetsewe	637	234.64	20	7.37	-31.03
	Namakwa	376	325.22	5	4.32	-64.29
	Pixley Ka Seme	436	206.75	5	2.37	-16.67
	ZF Mgcawu	1231	439.80	39	13.93	-4.88
Western Cape	Cape Winelands	6781	720.42	91	9.67	30.00
	Central Karoo	570	758.86	8	10.65	166.67
	City of Cape Town Metro	43865	952.55	495	10.75	3.34
	Garden Route	6425	1030.21	85	13.63	6.25
	Overberg	1676	558.84	26	8.67	73.33
	West Coast	2156	467.87	33	7.16	-15.38

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 23 2021

APPENDIX

Table 14: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-12 June 2021

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	1962	2368	11	4341	81	74	2	157
5-9	544	667	4	1215	10	13	0	23
10-14	920	867	0	1787	26	23	0	49
15-19	2848	1491	3	4342	74	71	0	145
20-24	4766	2373	5	7144	181	130	0	311
25-29	7991	3597	8	11596	398	235	0	633
30-34	10920	6296	4	17220	706	523	0	1229
35-39	12081	8673	11	20765	966	847	2	1815
40-44	11639	10132	4	21775	1215	1243	0	2458
45-49	13387	12488	10	25885	1833	1856	1	3690
50-54	15756	14104	1	29861	2476	2523	0	4999
55-59	17343	15045	7	32395	3620	3399	1	7020
60-64	15660	14091	12	29763	4160	4189	1	8350
65-69	13094	11487	7	24588	4206	3860	0	8066
70-74	10486	9295	10	19791	3549	3388	4	6941
75-79	7557	6137	5	13699	2659	2411	1	5071
80-84	5526	3835	4	9365	2089	1594	2	3685
85-89	2827	1782	2	4611	1106	821	0	1927
90-94	1259	594	1	1854	578	297	0	875
>=95	414	223	0	637	179	85	0	264
Unknown	792	661	39	1492	49	56	0	105
Total	157772	126206	148	284126	30161	27638	14	57813