

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

SOUTH AFRICA

WEEK 3 2022

NATIONAL INSTITUTE FOR  
COMMUNICABLE DISEASES  
Division of the National Health Laboratory Service

## 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 22 January 2022.

## HIGHLIGHTS

- As of 22 January 2022, 493,567 COVID-19 admissions and 99,729 in-hospital deaths were reported to DATCOV from 666 facilities (407 public-sector and 259 private-sector) in all nine provinces of South Africa.
- In the fourth COVID-19 wave, dominated by the Omicron variant, there was an increase in admissions since week 45 and a decrease in admissions since week 50. The weekly admissions during the fourth wave have been lower than the numbers of admissions at the peak of the second and third waves in both private and public sectors. The number of admissions has decreased in all provinces in the last three weeks.
- There has been an increase in in-hospital COVID-19 deaths in both public and private sectors in all provinces since week 48 and a decrease in weekly deaths since week 1 (2022). The weekly deaths during the fourth wave have been lower than the numbers of deaths at the peak of the prior three waves in both public and private sectors. The number of deaths has decreased in all provinces in the last two weeks.

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## METHODS

Data on hospitalisation was accessed from DATCOV, a hospital surveillance system for COVID-19 admissions, 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.

Data on SARS-CoV-2 cases diagnosed in public and private laboratories submitted to the NICD were reported from the line list on the NMCSS.

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 2021 were utilised. For comparisons of change in admission, we used 14-day daily average admissions in the current 14-day period compared to the previous 14-day period.

Severity was defined as patients receiving oxygen or invasive ventilation, treated in high care or intensive care wards, developing acute respiratory distress syndrome, or died. While oxygen, ventilation and ward of stay variables are updated daily for all admissions in the private sector, there may be delays with the data being updated in the public sector. Also, as patients remain in hospital their condition may change and percentage of severity may change over time.

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 22 January 2022, a total of 666 facilities submitted data on hospitalised COVID-19 cases, 407 from public sector and 259 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 2020-22 January 2022.

Name of province	Public	Private
Eastern Cape	86	18
Free State	35	20
Gauteng	40	96
KwaZulu-Natal	69	47
Limpopo	41	7
Mpumalanga	31	9
North West	17	13
Northern Cape	29	6
Western Cape	59	43
<b>South Africa</b>	<b>407</b>	<b>259</b>

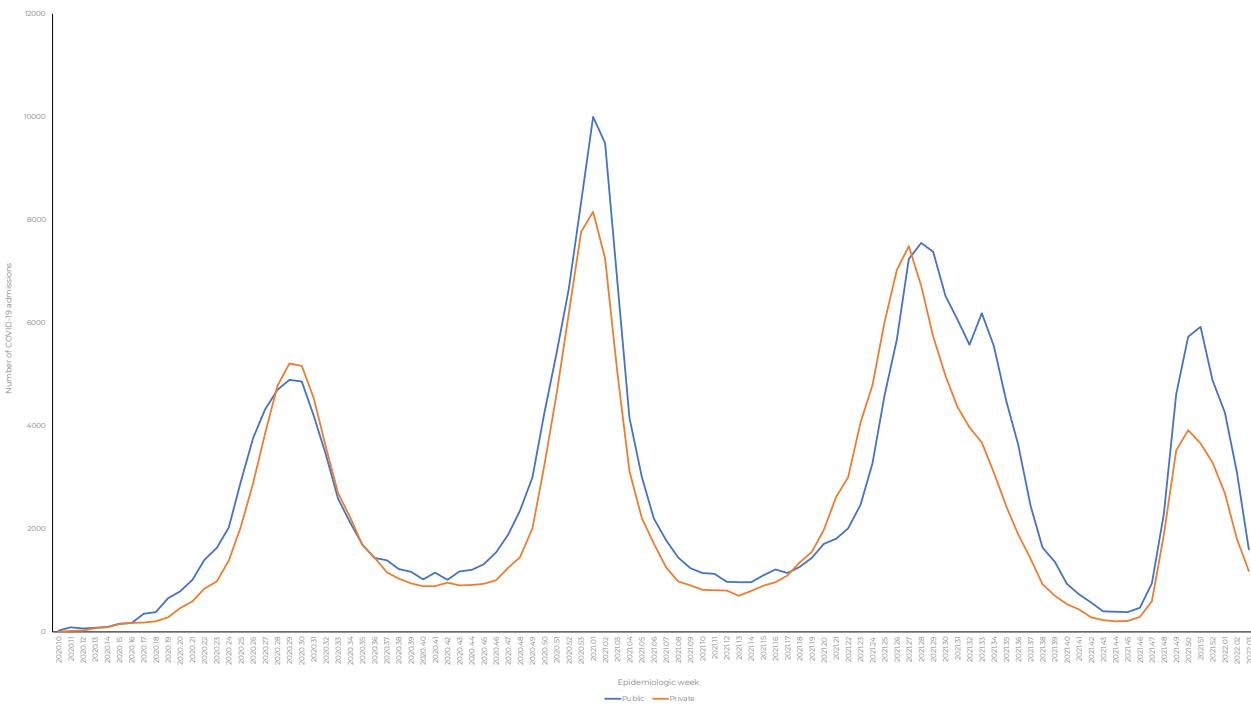
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## RESULTS

### Epidemiological and geographic trends in admissions

From 5 March 2020 to 22 January 2022, a total of 493,567 COVID-19 admissions were reported from 666 facilities in all nine provinces of South Africa. The fourth wave of the COVID-19 pandemic began in week 45 of 2021 in both sectors. There has been a decrease in admissions since week 51 (Figure 1). The weekly admissions during the fourth wave have been lower than the numbers of admissions at the peak of the second and third waves in both sectors.

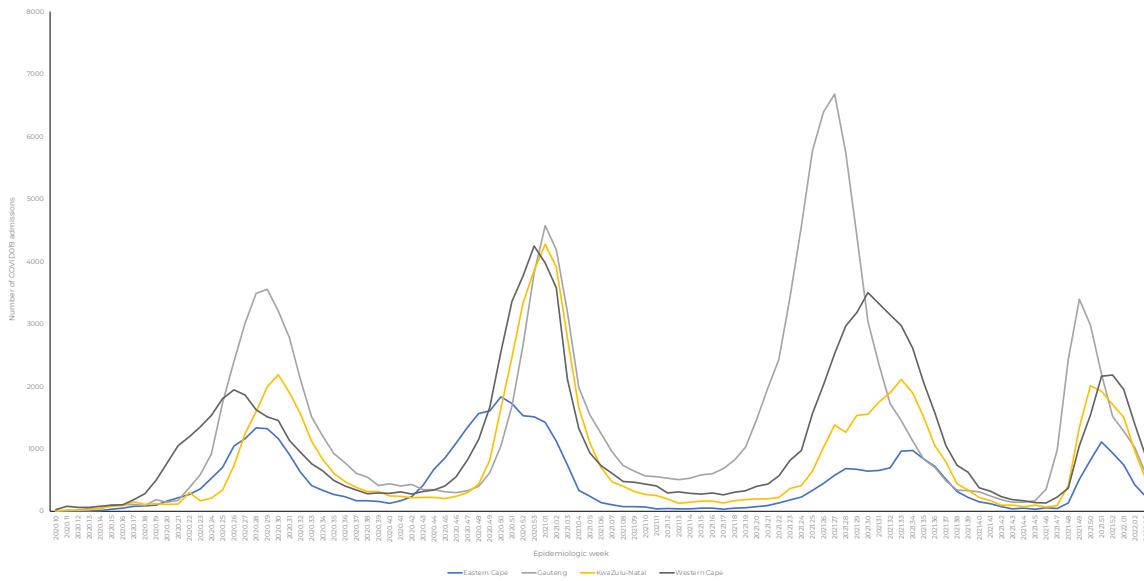


**Figure 1.** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-22 January 2022, N=493,567

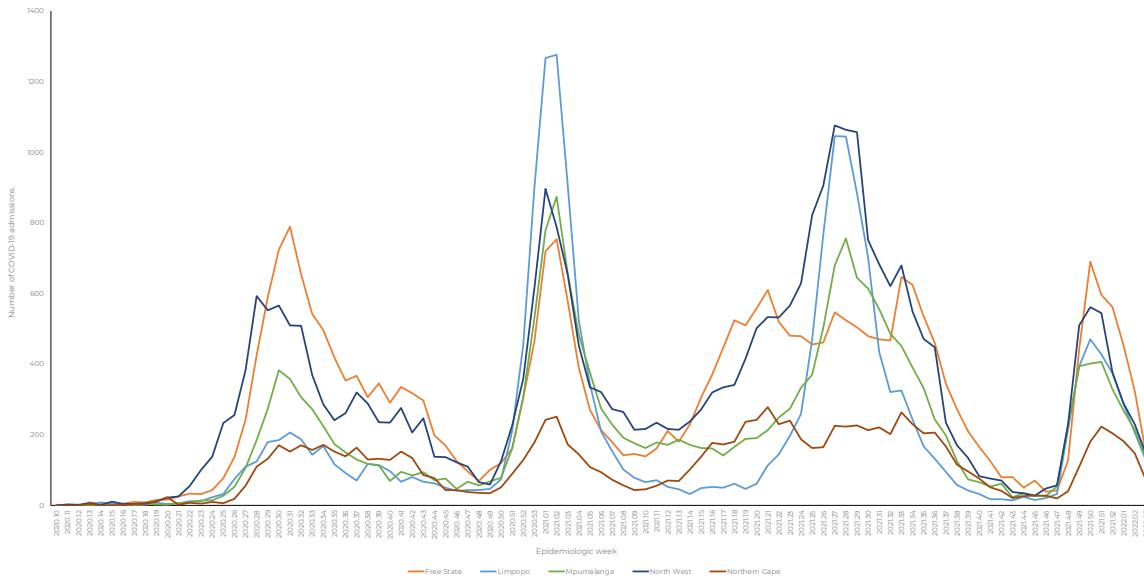
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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The majority of admissions were recorded in four provinces, Gauteng 142,695 (29%), Western Cape 110,416 (22%), KwaZulu-Natal 80,619 (16%) and Eastern Cape 46,456 (9%) provinces. There has been a decrease in admissions in all provinces over the past four weeks (Figures 2a and 2b).



**Figure 2a.** Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-22 January 2022, N=493,567

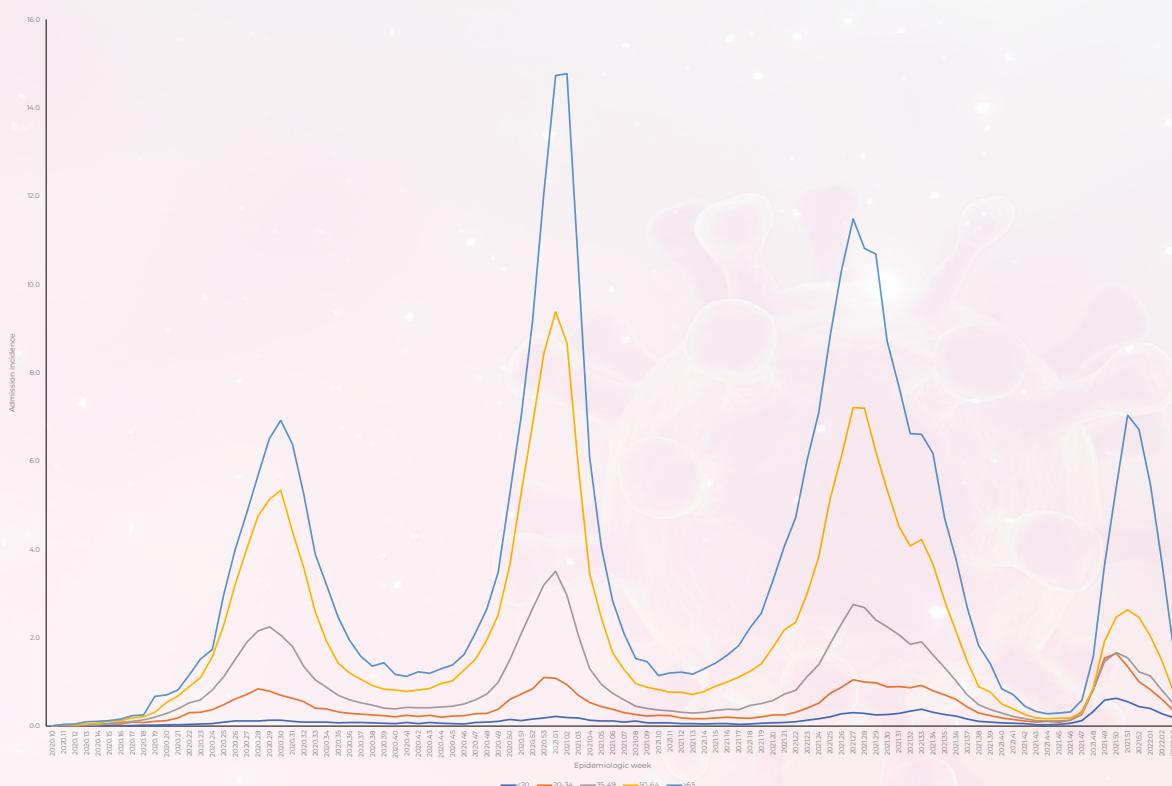


**Figure 2b.** Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-22 January 2022, N=493,567

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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The incidence risk of COVID-19 admissions increased with age and was highest amongst individuals aged 65 years and older (Figure 3). During the fourth wave, there were 8,032 admissions in <20 years, 18,709 in 20-39 years, 13,519 in 40-59 years, and 17,004 in >60 years.



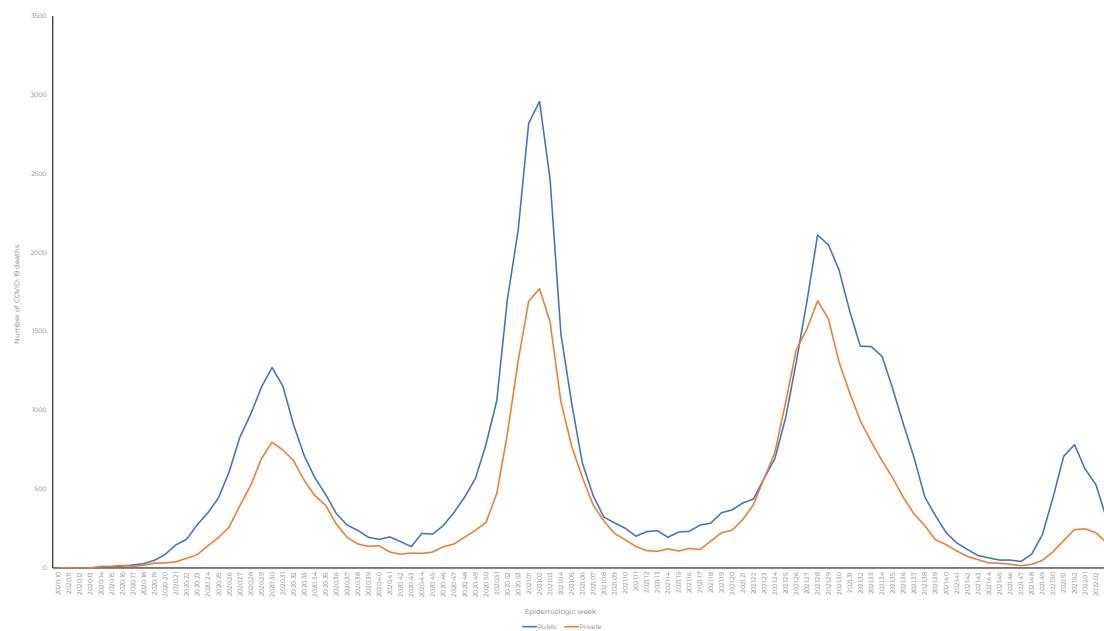
**Figure 3.** Number risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, South Africa, 5 March 2020-22 January 2022, N=493,567

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

A total of 99,729 COVID-19 in-hospital deaths were reported in all nine provinces of South Africa. More deaths have been reported in the public sector in all four waves. There has been an increase in in-hospital COVID-19 deaths in both sectors since week 48 and a decrease since week 1 (2022) (Figure 4). The weekly deaths during the fourth wave have been lower than the numbers of deaths at the peak of the prior three waves in both sectors.

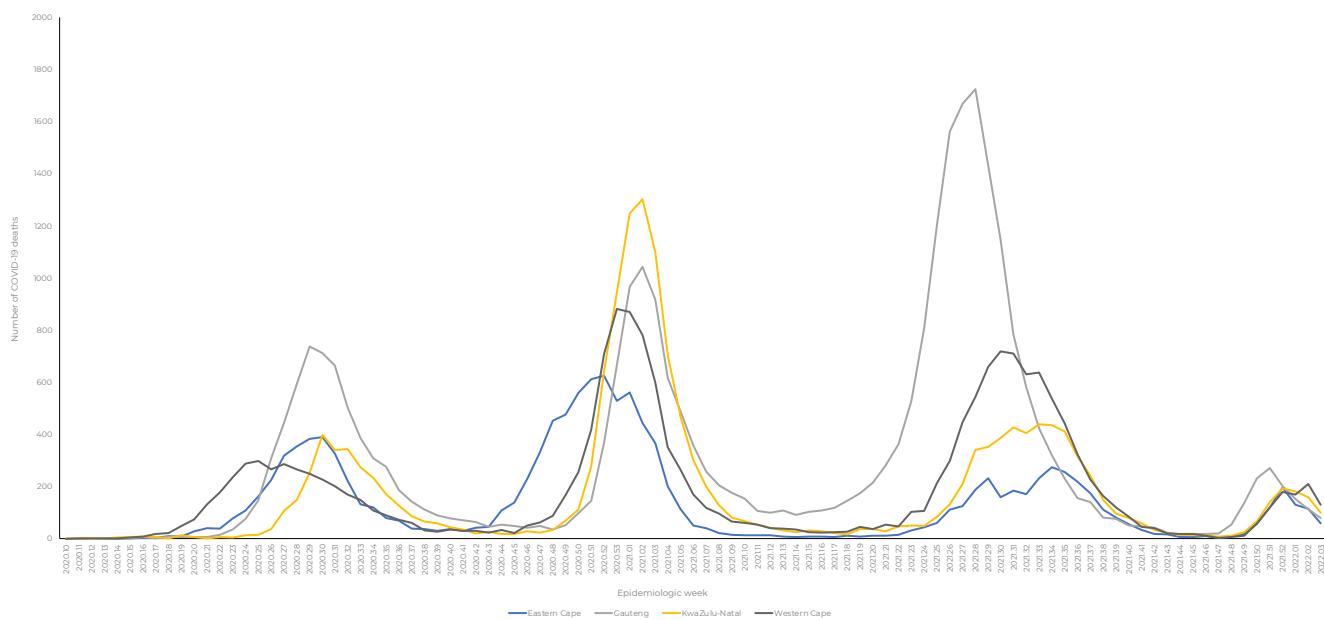


**Figure 4.** Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-22 January 2022, N=99,729

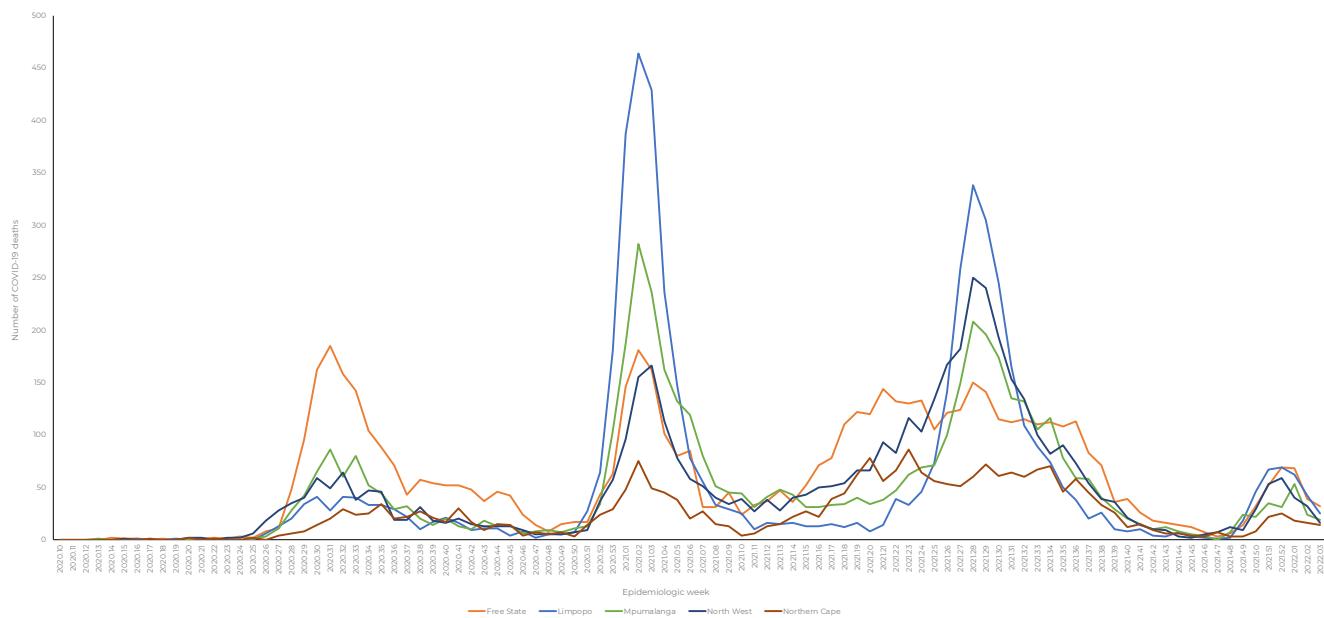
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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Most deaths were reported in Gauteng 29,053 (29%), Western Cape 18,186 (18%), KwaZulu-Natal 16,696 (17%), and Eastern Cape 12,906 (13%). There has been an increase in deaths in all provinces (Figures 5a and 5b). The weekly deaths during the fourth wave have been lower than the numbers of deaths at the peak of the prior three waves in all provinces. Weekly deaths have decreased in all provinces for the past three weeks.



**Figure 5a.** Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-22 January 2022, N=99,729

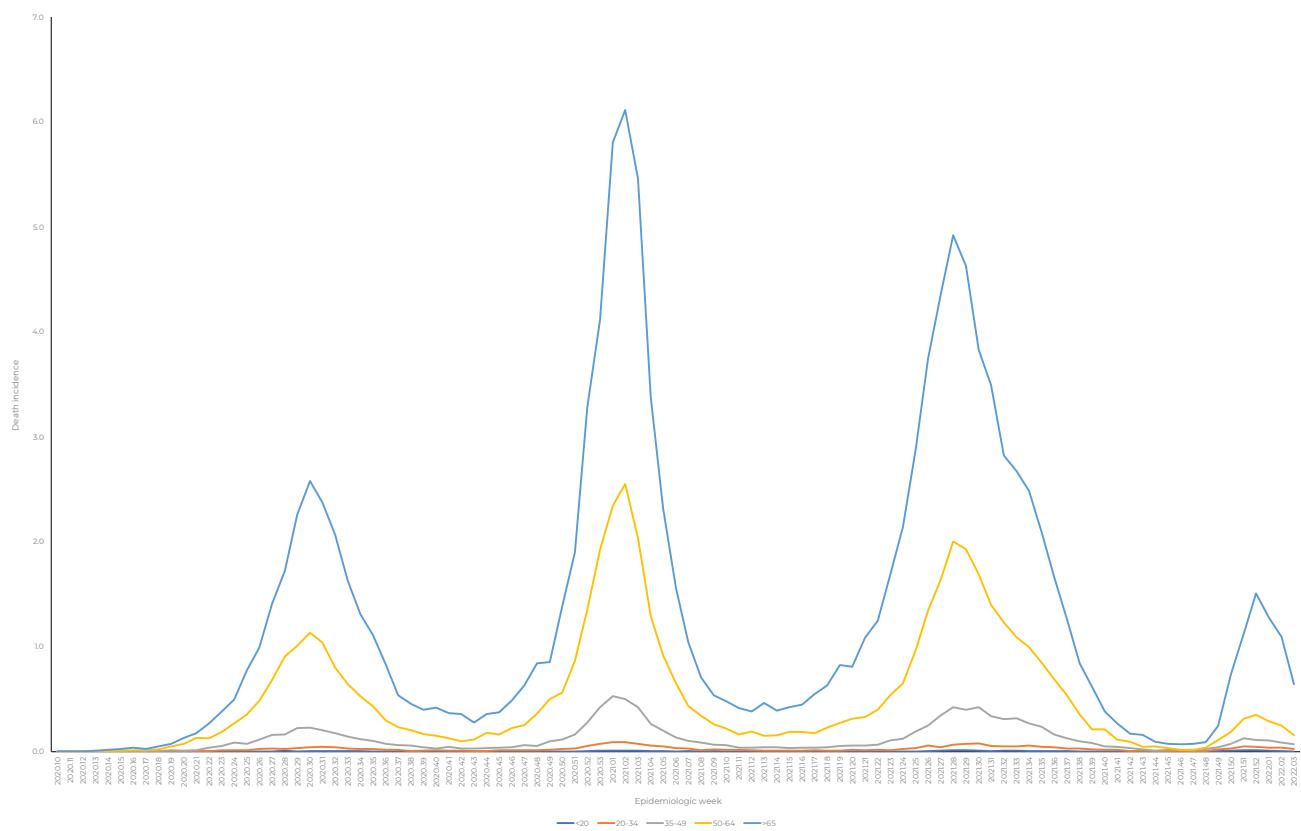


**Figure 5b.** Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-22 January 2022, N=99,729

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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The incidence risk of COVID-19 deaths increased with age and was highest amongst individuals aged 65 years and older (Figure 6). During the fourth wave, there were 139 deaths in <20 years, 698 in 20-39 years, 1,273 in 40-59 years, and 3,035 in >60 years.



**Figure 6.** Number risk of COVID-19 in-hospital deaths per 100,000 persons, by age group and epidemiologic week of death, South Africa, 5 March 2020-22 January 2022, N=99,729

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## PROVINCIAL TRENDS

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 2020-22 January 2022.

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative incidence risk of admissions / 100,000	Cumulative deaths	Cumulative incidence risk of deaths / 100,000
Eastern Cape	6676590	46456	695.8	12906	193.3
Free State	2932441	29860	1018.3	5913	201.6
Gauteng	15810388	142 695	902.5	29053	183.8
KwaZulu-Natal	11513575	80619	700.2	16693	145.0
Limpopo	5926724	19820	334.4	5198	87.7
Mpumalanga	4743584	20884	440.3	4707	99.2
North West	4122854	31 668	768.1	4687	113.7
Northern Cape	1303047	11 149	855.6	2382	182.8
Western Cape	7113776	110 416	1552.1	18185	255.6
<b>South Africa</b>	<b>60142978</b>	<b>493 567</b>	<b>820.7</b>	<b>99 724</b>	<b>165.8</b>

\*StatsSA mid-year population estimates 2020

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a decrease in the average daily COVID-19 admissions and deaths comparing the previous 14 days and the current 14 days in all provinces (Table 3).

**Table 3.** Previous 14 days and current 14 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 25 December 2021-22 January 2022.

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	119.14	46.07	-61.33	23.43	12.43	-46.95
Free State	72.43	33.79	-53.35	9.79	5.07	-48.18
Gauteng	199.43	113.86	-42.91	25.14	13.79	-45.17
KwaZulu-Natal	228.86	103.64	-54.71	26.79	18.57	-30.67
Limpopo	47.14	23.93	-49.24	9.36	4.79	-48.85
Mpumalanga	42.57	25.00	-41.28	6.00	3.07	-48.81
North West	47.50	26.93	-43.31	7.07	3.43	-51.52
Northern Cape	27.50	15.79	-42.60	3.07	2.14	-30.23
Western Cape	295.07	160.07	-45.75	25.00	24.36	-2.57

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

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a decrease in the average daily COVID-19 admissions and deaths comparing the previous 7 days and the current 7 days in all provinces (Table 4).

**Table 3.** Previous 7 days and current 7 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 8-22 January 2022.

Province	Hospital admissions		Percentage change in admissions	Hospital deaths		Percentage change in deaths
	Previous 7 days average admissions	Current 7 days average admissions		Previous 7 days average deaths	Current 7 days average deaths	
Eastern Cape	60.43	31.71	-47.52	16.43	8.43	-48.70
Free State	46.29	21.29	-54.01	5.57	4.57	-17.95
Gauteng	145.14	82.57	-43.11	16.14	11.43	-29.20
KwaZulu-Natal	137.14	70.14	-48.85	22.86	14.29	-37.50
Limpopo	29.57	18.29	-38.16	6.00	3.57	-40.48
Mpumalanga	30.57	19.43	-36.45	3.43	2.71	-20.83
North West	32.86	21.00	-36.09	4.57	2.29	-50.00
Northern Cape	21.14	10.43	-50.68	2.29	2.00	-12.50
Western Cape	198.29	121.86	-38.54	30.00	18.71	-37.62

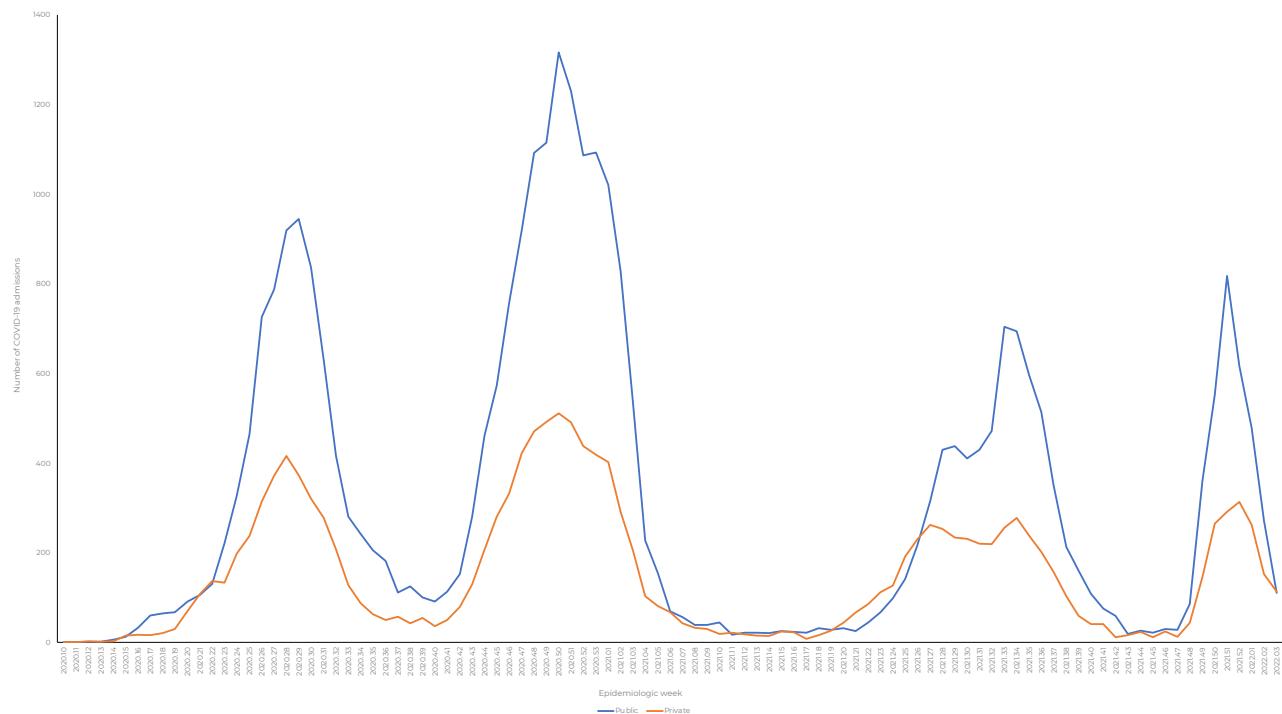
\* Reporting of new admissions in the most recent week may be delayed

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## EASTERN CAPE

In all four waves, there were higher numbers of admissions in the public sector. Following an increase in admissions in both sectors since week 46, there has been decreased admissions since week 51 (Figure 7). Weekly admissions in the fourth wave exceeded the weekly numbers of admissions at the peak of the third wave in both sectors but were lower than the first and second waves.

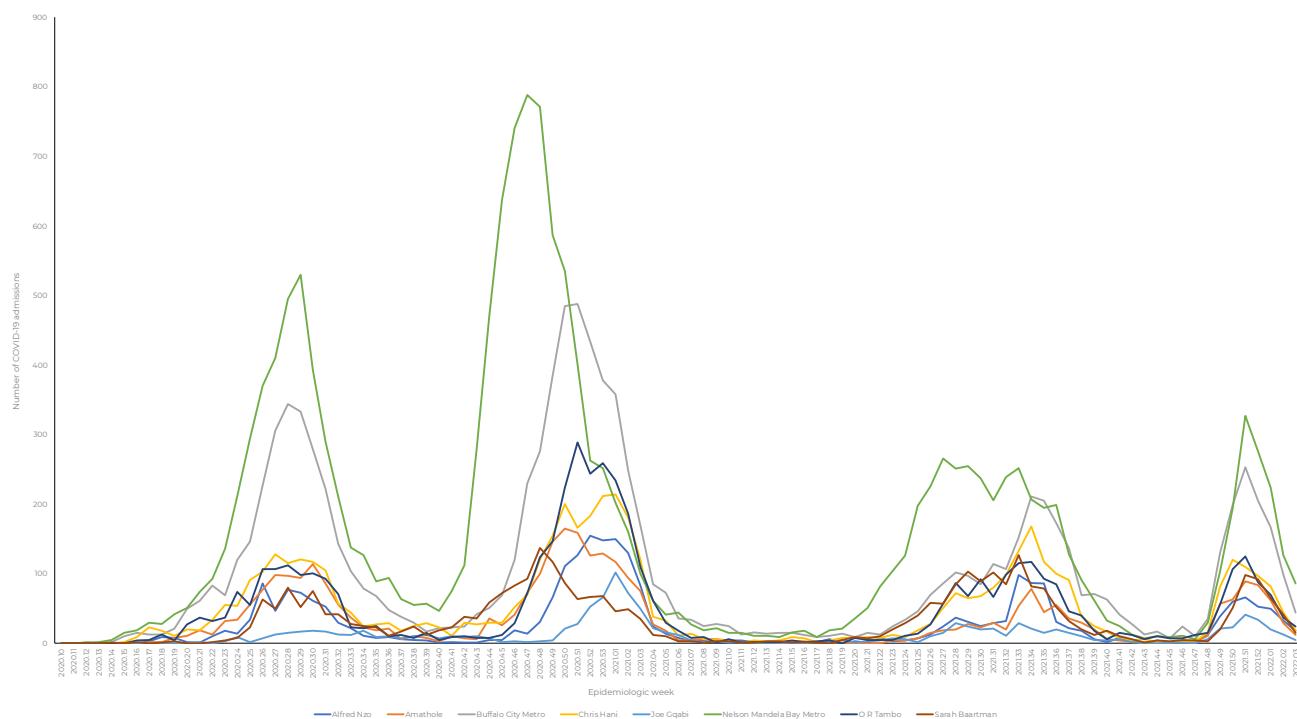


**Figure 7:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-22 January 2022, N=46,456

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been an increase in admissions in all districts since week 46 and a decrease in all districts since week 51 (Figure 8). The weekly admissions during the fourth wave exceeded the numbers of admissions at the peak of the third wave in all districts, but was lower than the first and second wave in all districts

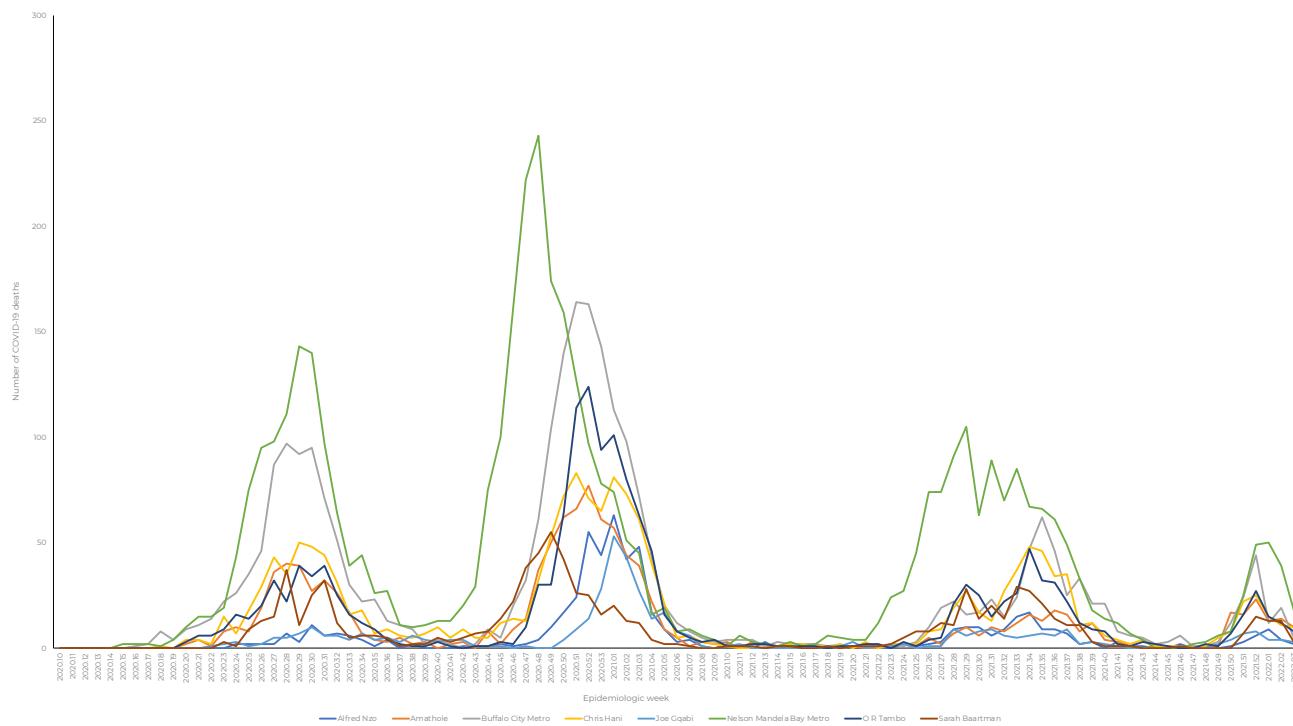


**Figure 8.** Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-22 January 2022, N=46,456

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There has been an increase in weekly numbers of deaths in all districts (Figure 9). The weekly deaths in the fourth wave were lower than the numbers of deaths in the prior three waves in all districts.



**Figure 9.** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-22 January 2022, N=12,906

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a decrease in the average daily COVID-19 admissions and deaths comparing the previous 14 days and the current 14 days in all districts (Table 5).

**Table 4:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 25 December 2021-22 January 2022.

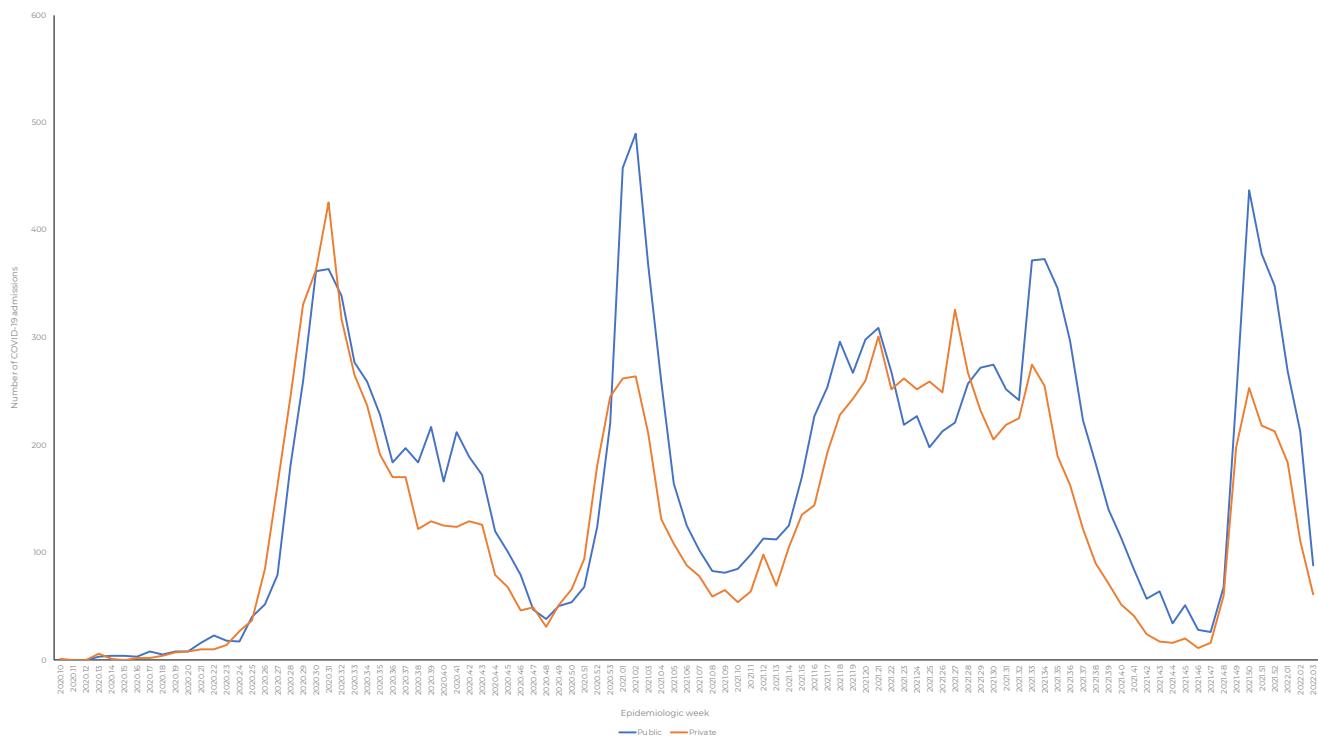
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Alfred Nzo	7.36	3.64	-50.49	1.07	0.43	-60.00
Amathole	10.36	2.93	-71.72	2.57	1.64	-36.11
Buffalo City Metro	26.57	10.21	-61.56	4.00	1.71	-57.14
Chris Hani	12.79	4.50	-64.80	2.86	1.50	-47.50
Joe Gqabi	3.86	1.29	-66.67	0.86	0.50	-41.67
Nelson Mandela Bay	35.71	15.14	-57.60	7.07	4.07	-42.42
O R Tambo	11.29	4.36	-61.39	3.00	1.43	-52.38
Sarah Baartman	11.21	4.00	-64.33	2.00	1.14	-42.86

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## FREE STATE

In the first and third waves there were roughly equal numbers of admissions in both sectors, while in the second and fourth waves there were higher numbers of admissions in the public sector (Figure 10). Following an increase in admissions in both sectors since week 46, there has been decreased admissions since week 50. Weekly admissions in the fourth wave exceeded the weekly numbers of admissions at the peak of the third wave in the public sector but were lower than the second wave.

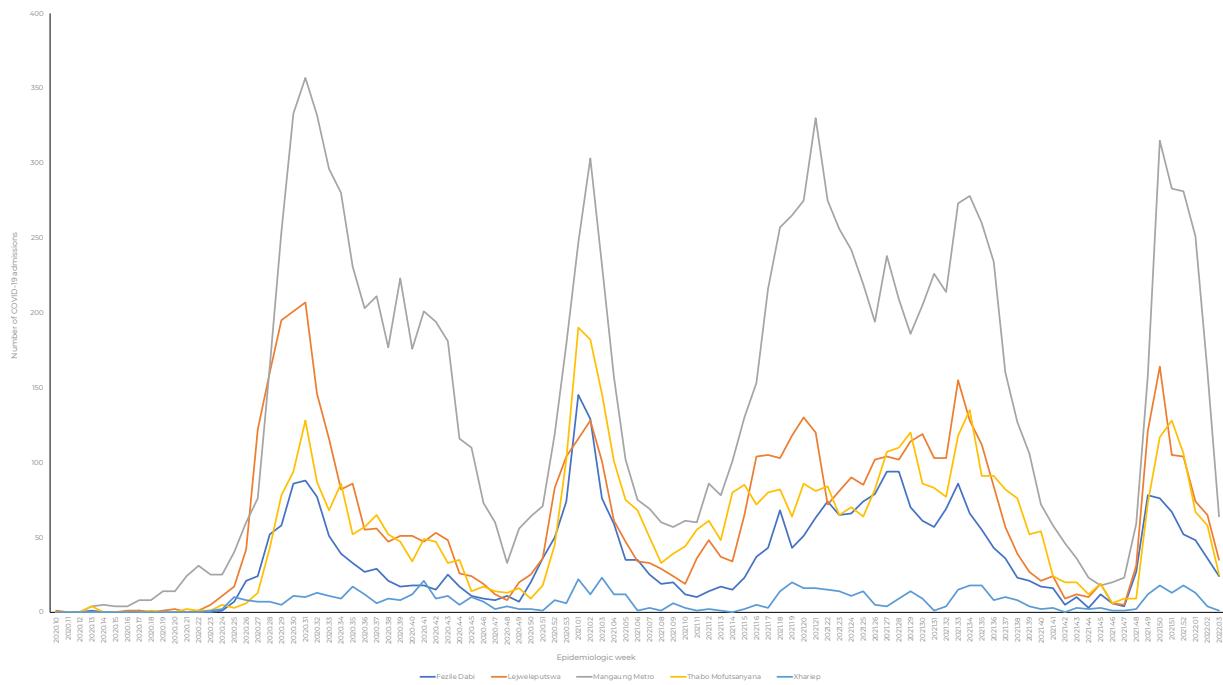


**Figure 10:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-22 January 2022, N=29,860

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in admissions in all districts since week 46 and decreased admissions since week 50 (Figure 11). Weekly admissions in the fourth wave were similar to the weekly numbers of admissions at the peaks of the prior three waves in all districts.

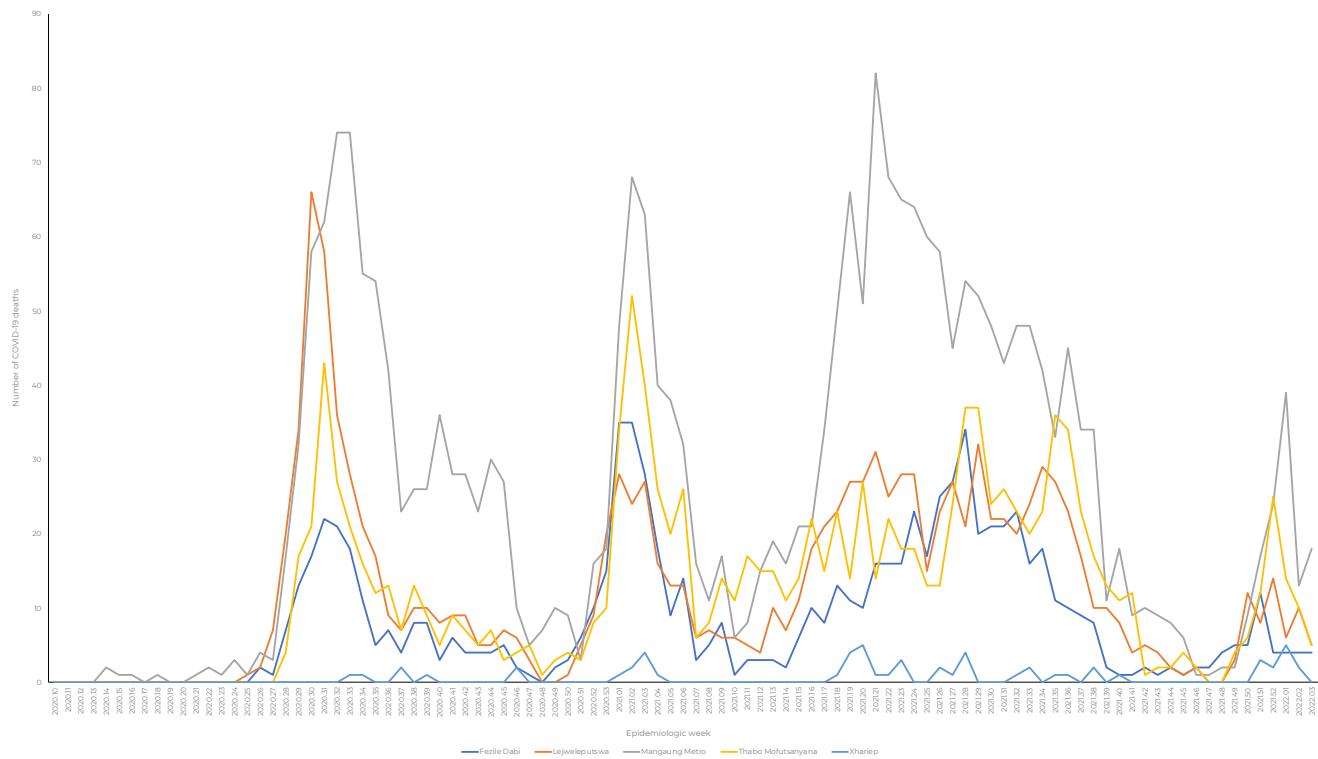


**Figure 11:** Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-22 January 2022, N=29,860

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a small increase in deaths in all districts (Figure 12). Weekly deaths in the fourth wave were lower than the weekly numbers of deaths in the prior three waves in all districts.



**Figure 12:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-22 January 2022, N=5,913

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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

**Table 5:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 25 December 2021-22 January 2022.

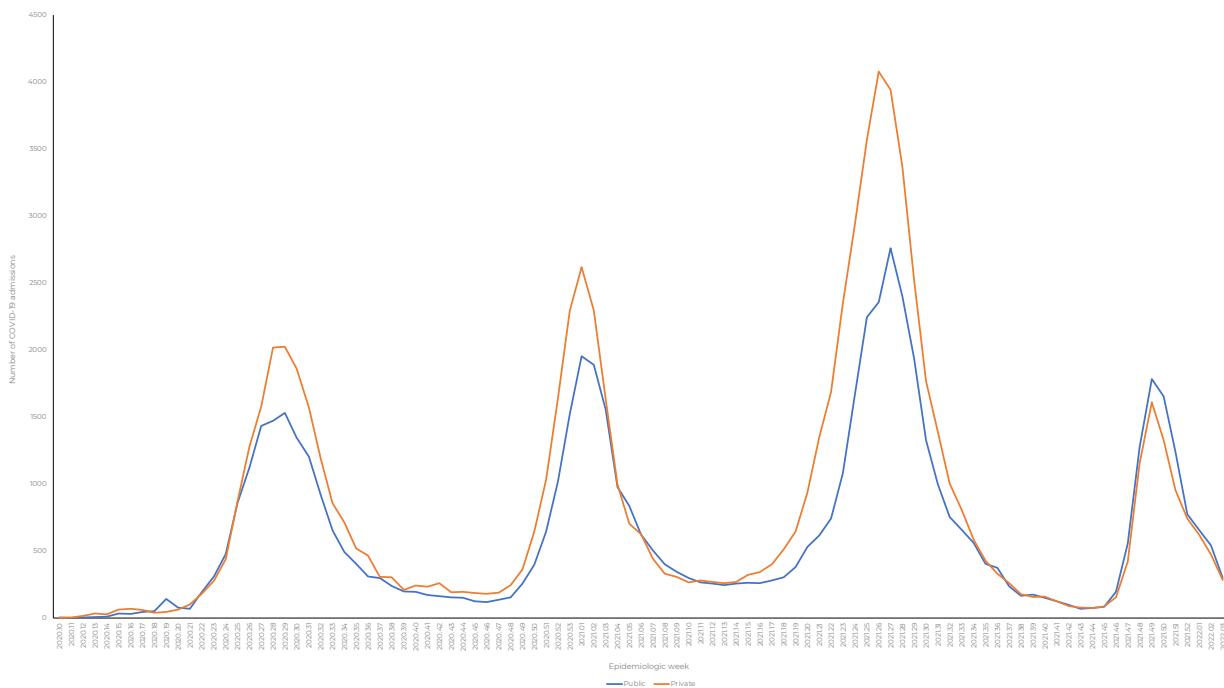
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Fezile Dabi	7.14	4.29	-40.00	0.57	0.57	0.00
Lejweleputswa	12.71	7.14	-43.82	1.43	1.07	-25.00
Mangaung Metro	38.00	16.07	-57.71	4.50	2.21	-50.79
Thabo Mofutsanyana	12.36	5.93	-52.02	2.79	1.07	-61.54
Xhariep	2.21	0.36	-83.87	0.50	0.14	-71.43

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## GAUTENG

In the first three waves there were higher numbers of admissions in the private sector while in the fourth wave there were equal numbers of admissions in the public and private sectors. Following an increase in admissions in both sectors since week 45, the numbers of weekly admissions has decreased in both sectors since week 49 (Figure 13). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions in the prior three waves in both sectors.

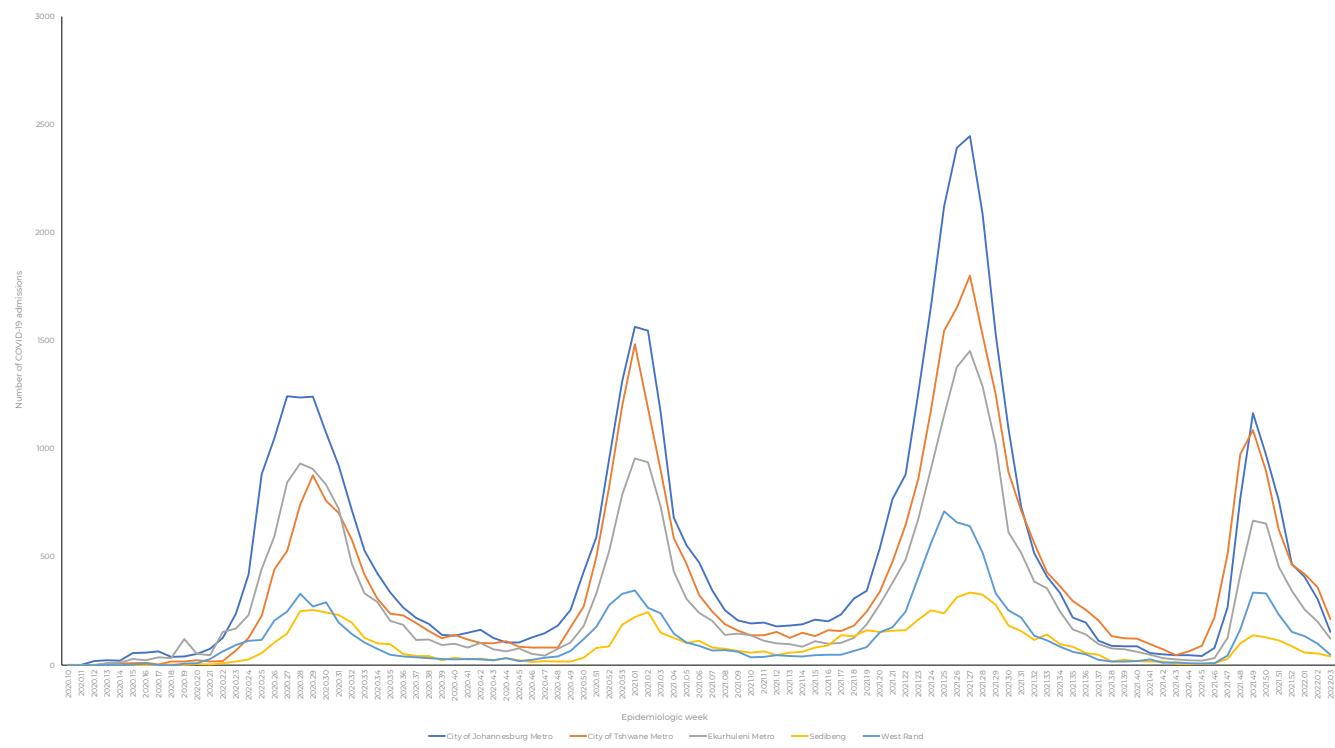


**Figure 13:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-22 January 2022, N=142,695

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WEEK 3 2022

There has been an increase in admissions since week 45 and decreased admissions in all districts since week 49 (Figure 14). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in all districts.

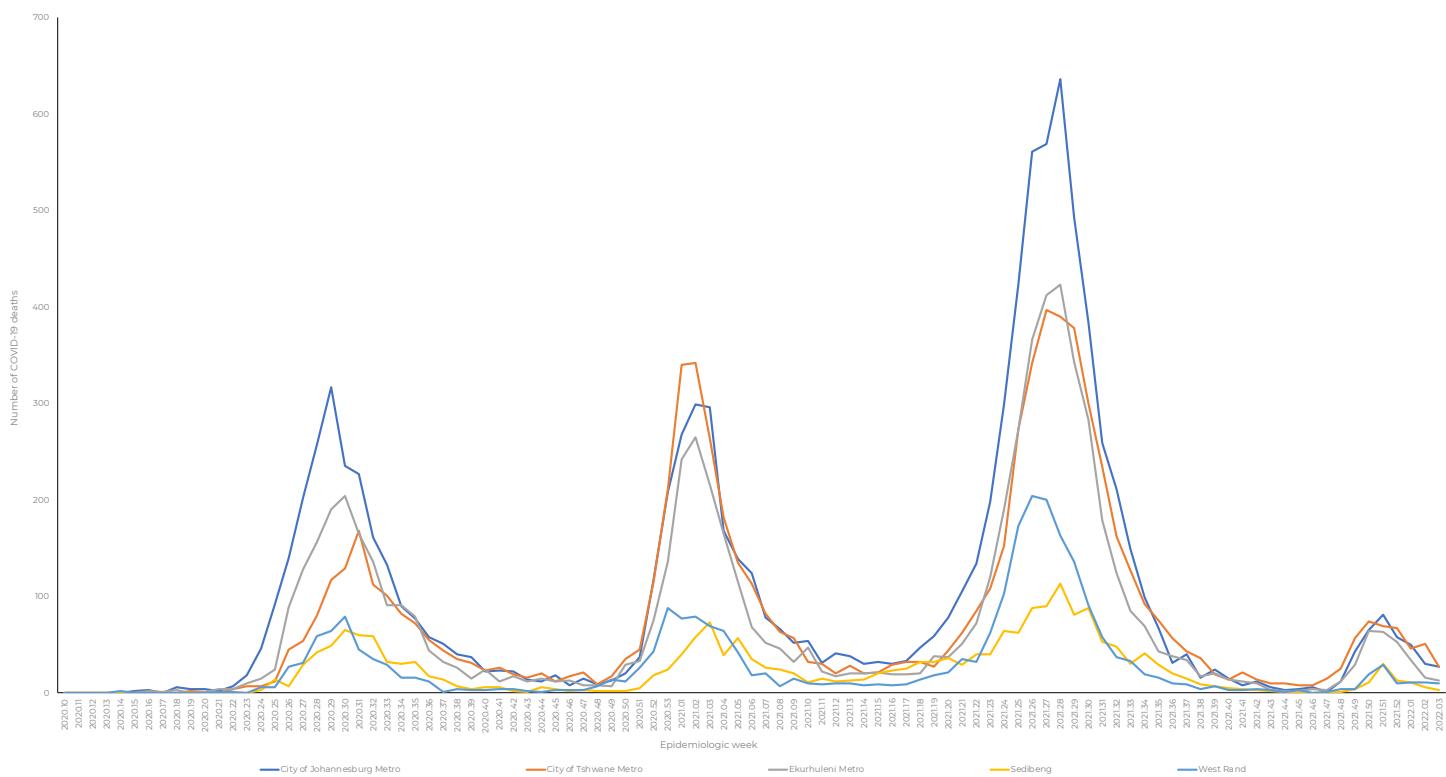


**Figure 14:** Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-22 January 2022, N=142,695

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a small increase in deaths in all districts (Figure 15). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at in the peak of the prior three waves in all districts.



**Figure 15:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-22 January 2022, N=29,053

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a decrease in average daily COVID-19 admissions and deaths comparing the previous 14 days and the current 14 days in all districts (Table 7).

**Table 7:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 25 December 2021-22 January 2022.

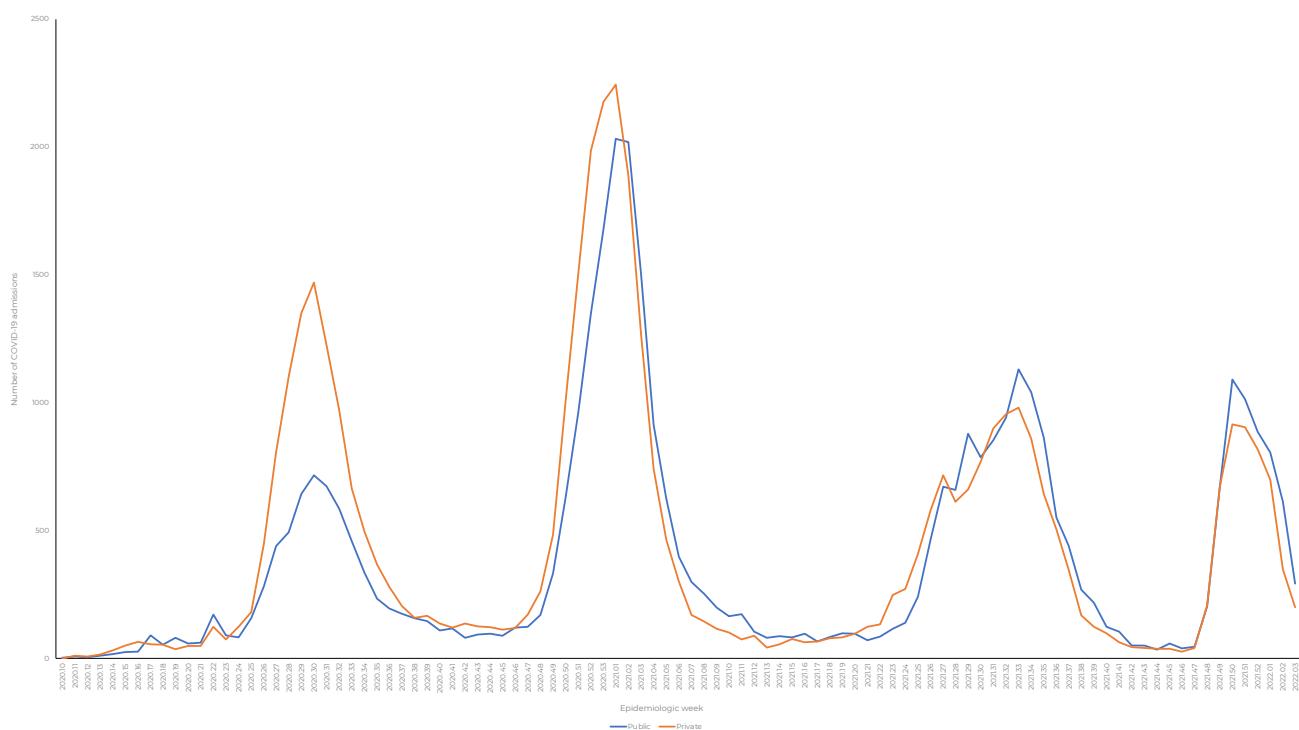
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
City of Johannesburg Metro	62.50	32.71	-47.66	7.71	4.00	-48.15
City of Tshwane Metro	63.07	40.71	-35.45	8.00	5.57	-30.36
Ekurhuleni Metro	42.93	23.14	-46.09	6.21	2.07	-66.67
Sedibeng	10.43	6.71	-35.62	1.71	0.64	-62.50
West Rand	20.50	10.57	-48.43	1.50	1.50	0.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## KWAZULU-NATAL

In the first wave there were higher numbers of admissions in the private sector but there have been equal numbers of admissions in the public and private sector in the second, third and fourth waves. Following an increase in admissions in both sectors since week 47, there has been decreased admissions since week 50 (Figure 16). Weekly admissions in the fourth wave were similar to the weekly numbers of admissions at the peak of the third wave in both sectors but lower than the second wave.

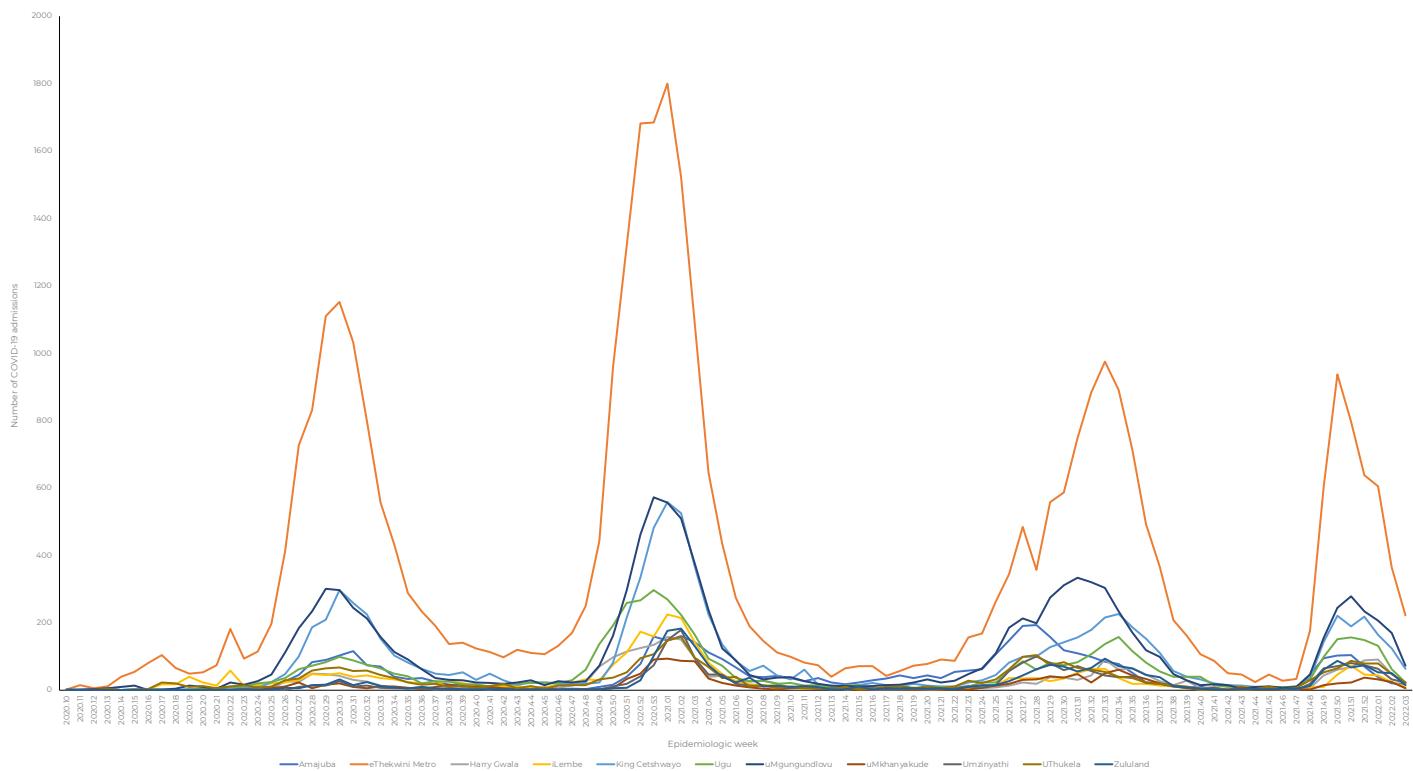


**Figure 16:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-22 January 2022, N=80,619

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in admissions in all districts since week 47 and decreased admissions since week 50 (Figure 17). Weekly admissions in the fourth wave were similar to the weekly numbers of admissions at the peak of the third wave in all districts but lower than the second wave.

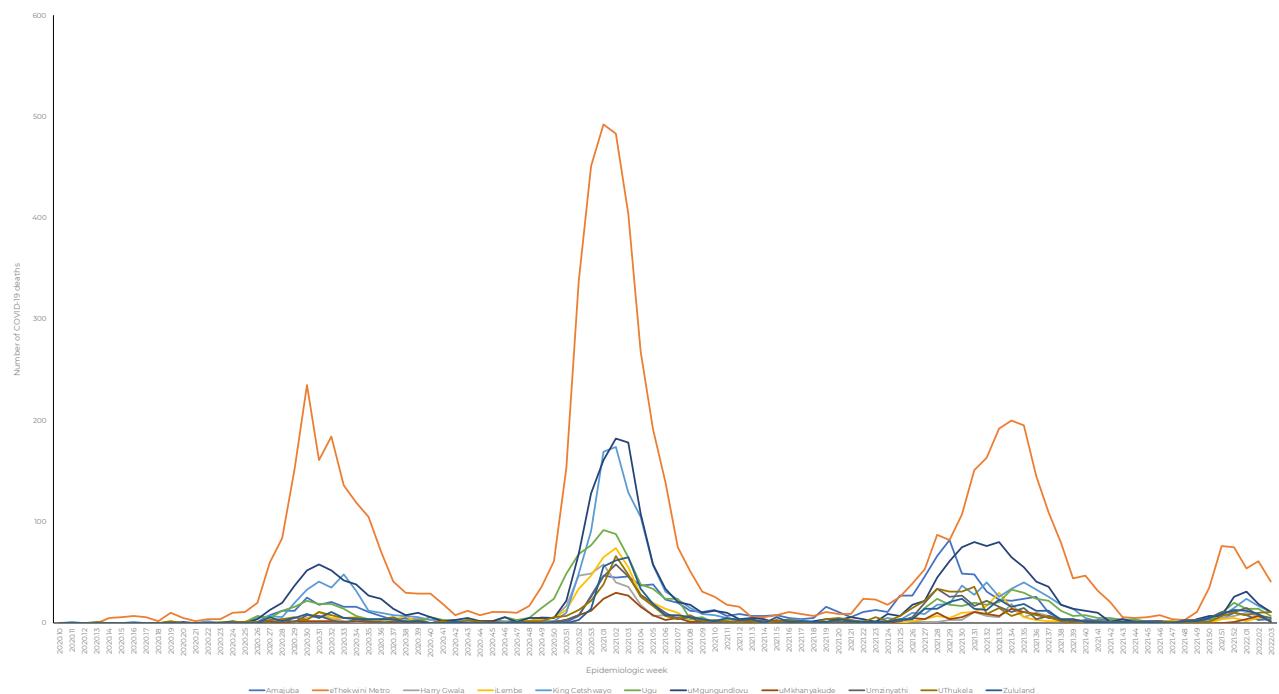


**Figure 17:** Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-22 January 2022, N=80,619

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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There has been a small increase in numbers of deaths in eThekwin Metro and uMgungundlovu (Figure 18). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths in the prior three waves in all districts.



**Figure 18:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-22 January 2022, N=16,696

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a decrease in average daily 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, KwaZulu-Natal, 25 December 2021-22 January 2022.

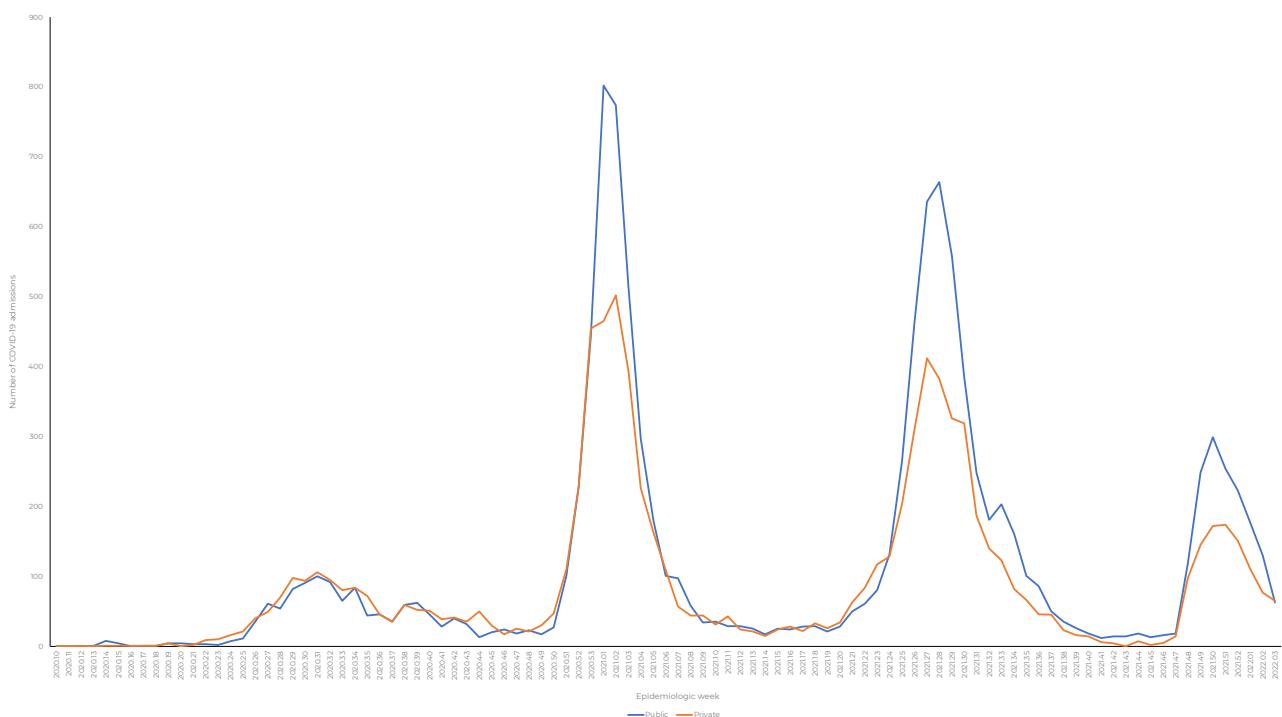
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Amajuba	7.71	2.79	-63.89	1.29	0.50	-61.11
eThekweni Metro	88.57	41.86	-52.74	9.21	7.29	-20.93
Harry Gwala	12.71	4.79	-62.36	1.21	0.64	-47.06
iLembe	6.43	2.36	-63.33	0.50	0.71	42.86
King Cetshwayo	27.14	13.07	-51.84	2.79	2.00	-28.21
Ugu	19.93	6.07	-69.53	2.43	1.50	-38.24
uMgungundlovu	31.43	17.21	-45.23	4.07	2.14	-47.37
uMkhanyakude	4.86	2.14	-55.88	0.36	0.64	80.00
Umzinyathi	9.79	3.79	-61.31	1.86	0.93	-50.00
UThukela	11.29	4.93	-56.33	1.29	1.50	16.67
Zululand	9.00	4.64	-48.41	1.79	0.71	-60.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## LIMPOPO

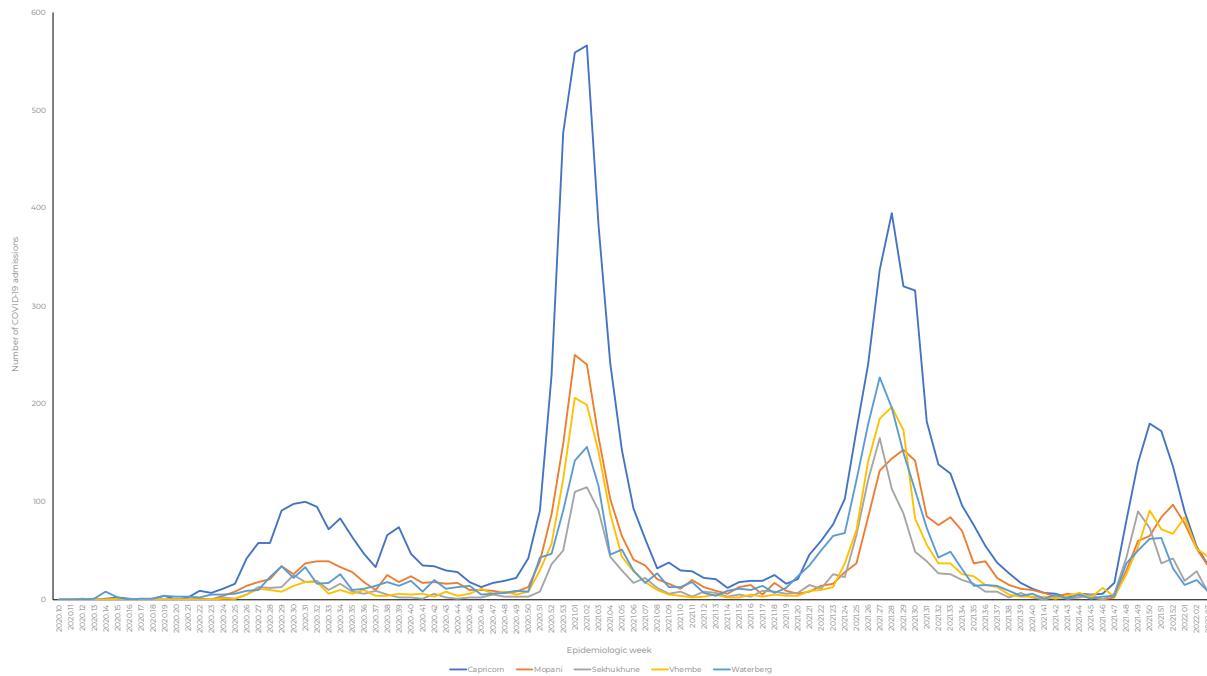
In the first wave there were roughly equal numbers of admissions in both sectors, but in the second, third and fourth waves there were higher numbers of admissions in the public sector. Following an increase in admissions in both sectors since week 46, there has been decreased admissions since week 50 (Figure 19). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in both sectors.



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in admissions in all districts since week 46 and decreased admissions since week 50 (Figure 20). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in all districts.

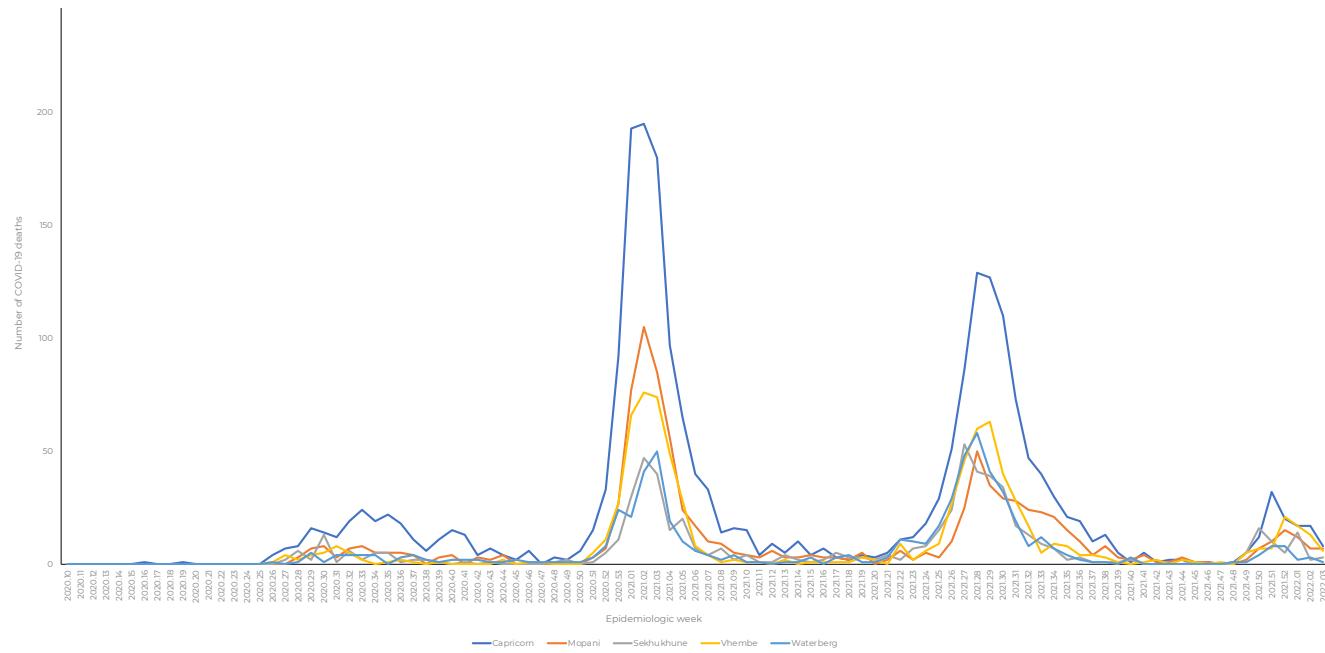


**Figure 20:** Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-22 January 2022, N=19,820

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a small increase in the numbers of deaths in all districts (Figure 21). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at the peak of the second and third waves in all districts.



**Figure 21:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-22 January 2022, N=5,199

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

**Table 8:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 25 December 2021-22 January 2022.

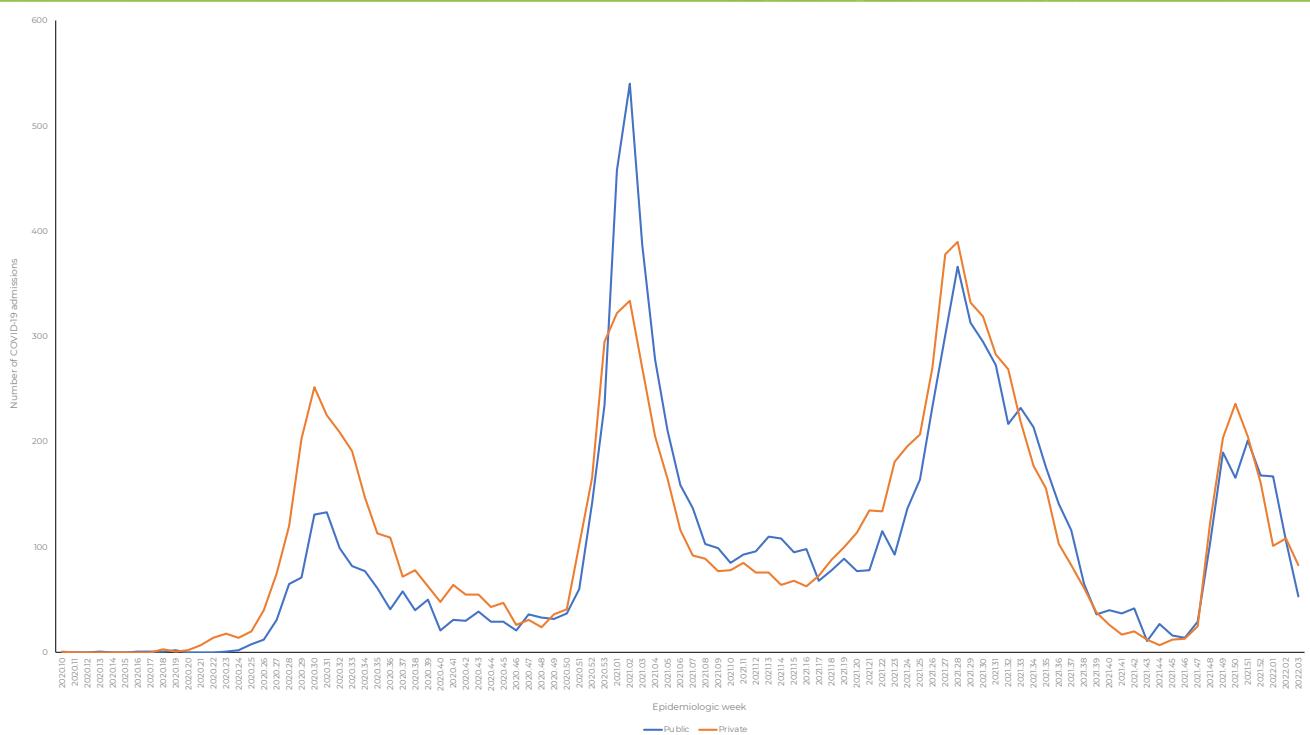
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Capricorn	16.14	6.36	-60.62	2.64	1.79	-32.43
Mopani	12.50	6.14	-50.86	1.93	1.00	-48.15
Sekhukhune	4.36	2.57	-40.98	1.36	0.36	-73.68
Vhembe	10.79	6.86	-36.42	2.71	1.36	-50.00
Waterberg	3.36	2.00	-40.43	0.71	0.29	-60.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## MPUMALANGA

In the first and fourth waves there were higher numbers of admissions in the private sector, in the second wave there were higher numbers of admissions in the public sector, and in the third wave there were equal numbers of admissions in both sectors. Following an increase in admissions in both sectors since week 46, there has been decreased admissions since week 50 (Figure 22). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in both sectors.

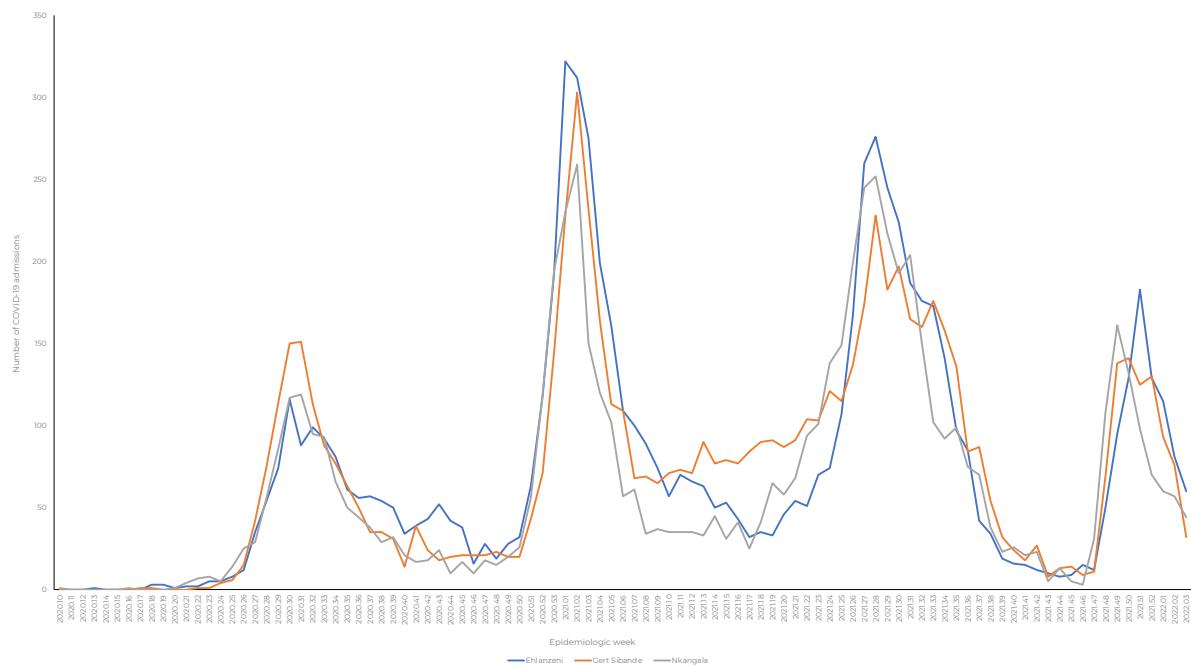


**Figure 22:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-22 January 2022, N=20,884

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in the number of weekly admissions in all districts since week 46 and decreased admissions in since week 50 (Figure 23). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in all districts.

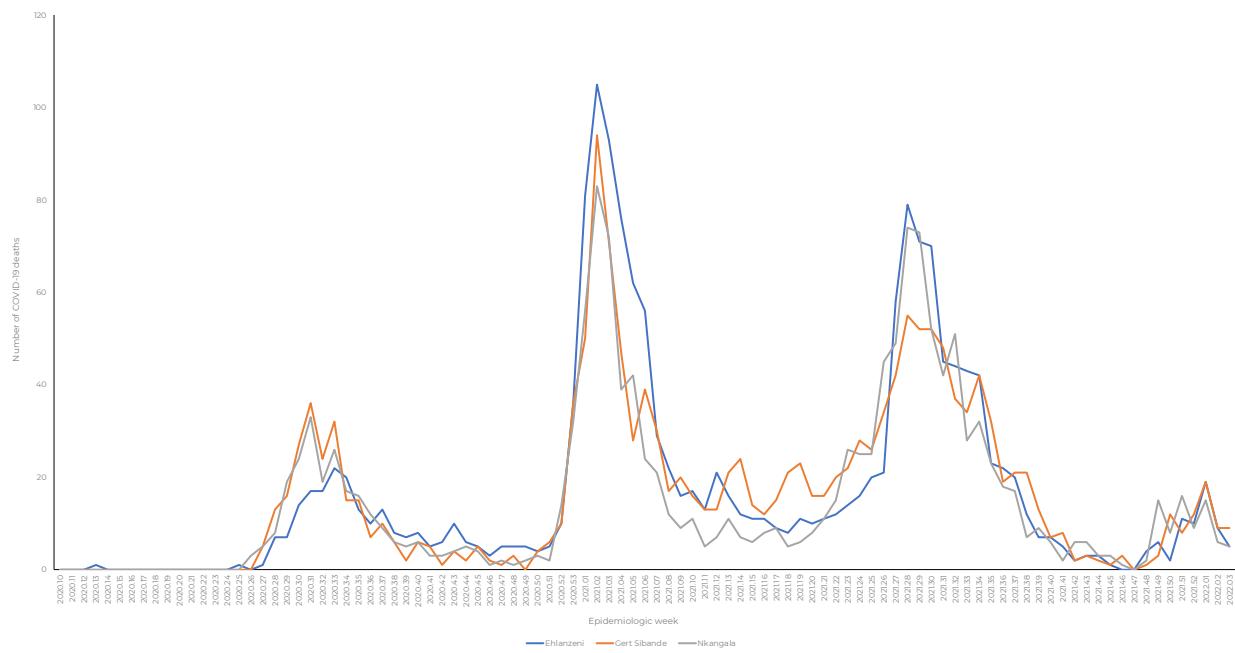


**Figure 23:** Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-22 January 2022, N=20,884

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a small increase in the number of deaths in all districts (Figure 24). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at the peak of the prior three waves in all districts.



**Figure 24:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-22 January 2022, N=4,707

There has been a decrease in average daily COVID-19 admissions and deaths 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, Mpumalanga, 25 December 2021-22 January 2022.

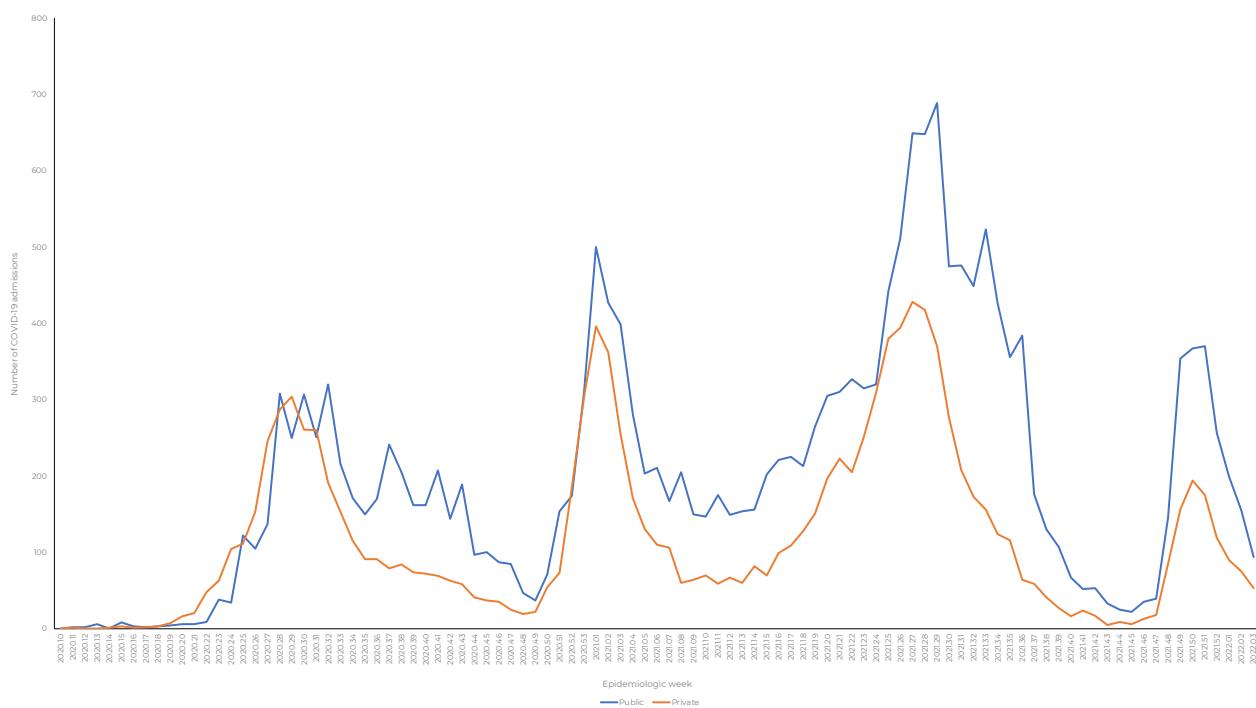
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Ehlanzeni	17.36	10.07	-41.98	2.07	1.00	-51.72
Gert Sibande	15.93	7.71	-51.57	2.21	1.29	-41.94
Nkangala	9.29	7.21	-22.31	1.71	0.79	-54.17

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## NORTH WEST

In all four waves there were higher numbers of admissions in the public sector. Following an increase in admissions in both sectors since week 46, there has been decreased admissions since week 50 (Figure 25). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in both sectors.

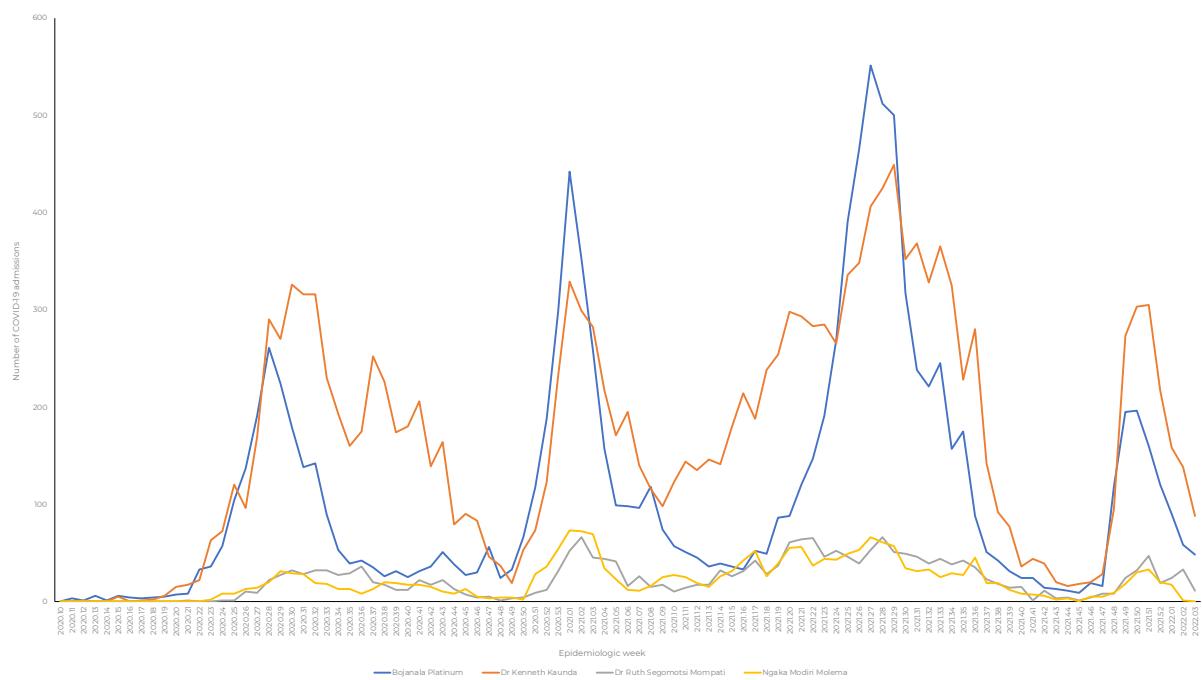


**Figure 25:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-22 January 2022, N=31,668

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

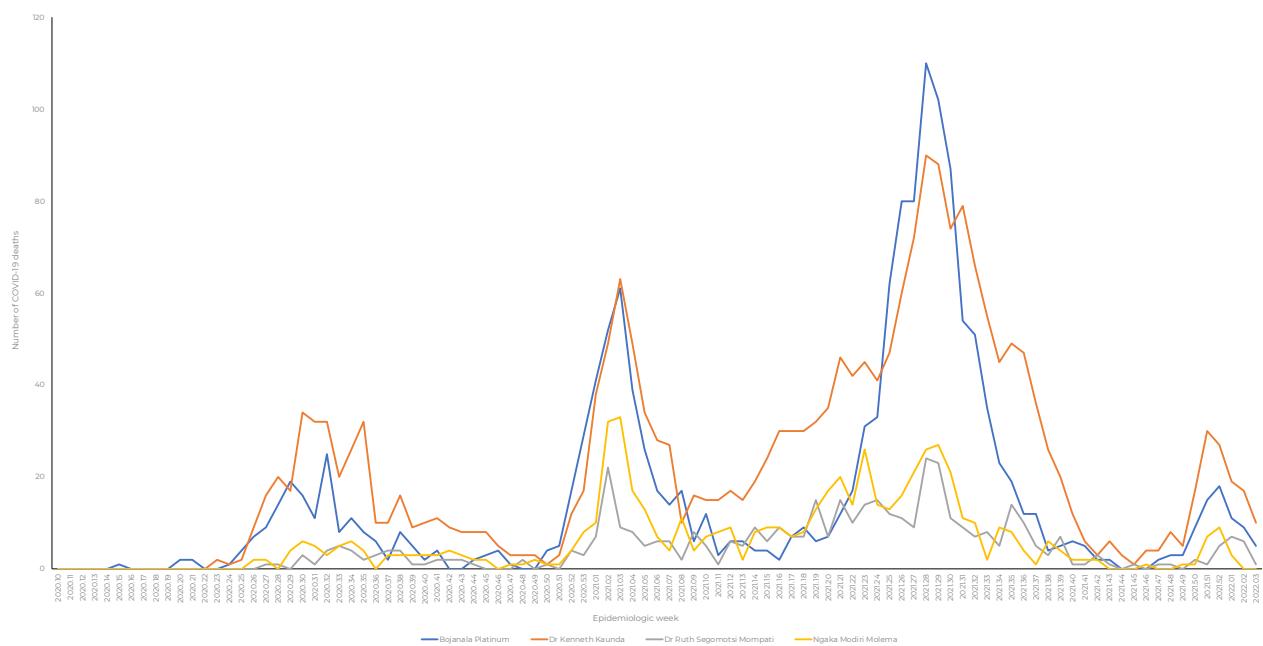
There has been an increase in the numbers of weekly admissions in all districts since week 46 and decreased admissions since week 50 (Figure 26). Weekly admissions at the peak of the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in all districts.



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in deaths in Dr Kenneth Kaunda and Bojanala Platinum district (Figure 27). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at the peak of the second and third waves in all districts.



**Figure 27:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-22 January 2022, N=4,687

There has been a decrease in average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts except Dr Ruth Segomotsi Mompati (Table 11).

**Table 11:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 25 December 2021-22 January 2022.

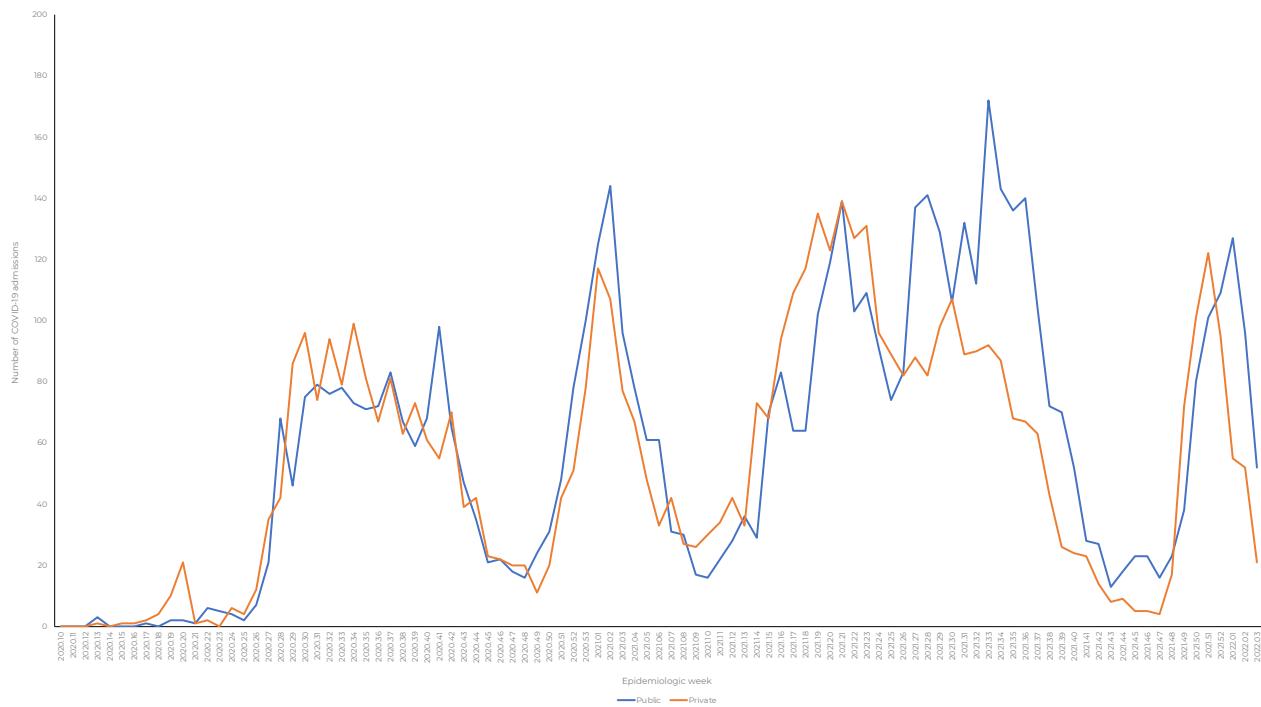
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum	15.00	7.57	-49.52	2.07	1.00	-51.72
Dr Kenneth Kaunda	26.79	16.14	-39.73	3.29	1.93	-41.30
Dr Ruth Segomotsi Mompati	3.07	3.14	2.33	0.86	0.50	-41.67
Ngaka Modiri Molema	2.64	0.07	-97.30	0.86	0.00	-100.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## NORTHERN CAPE

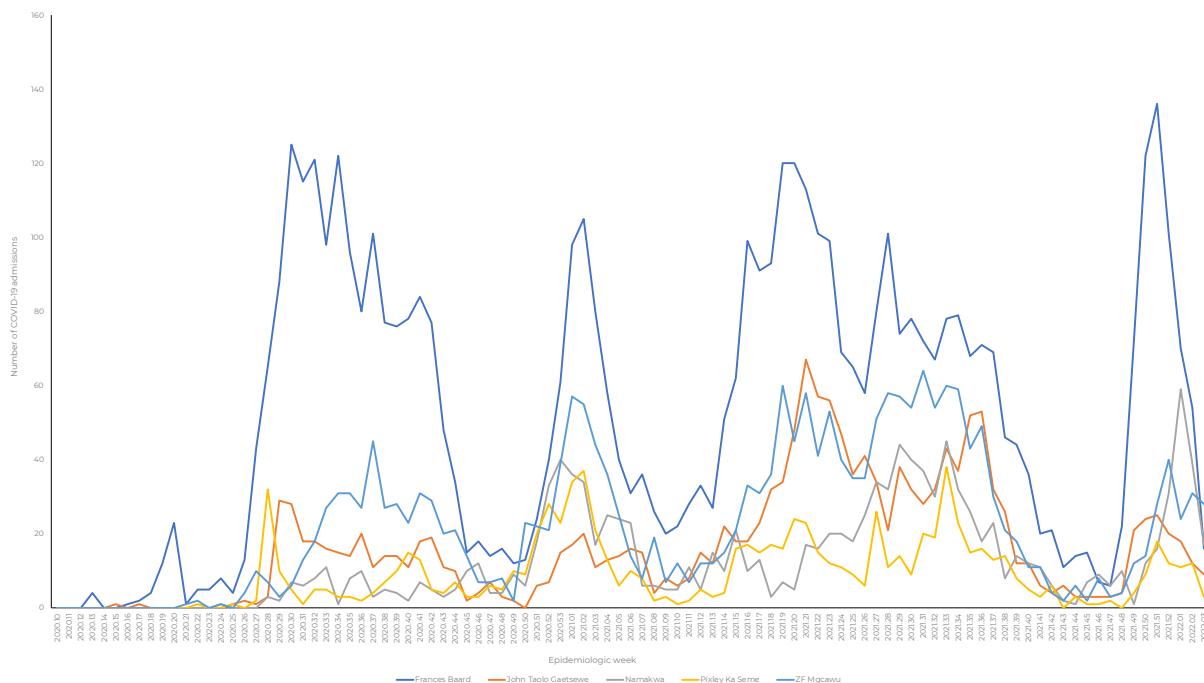
In all four waves there were roughly equal numbers of admissions in both sectors. Following an increase in admissions in both sectors since week 47, there has been decreased admissions since week 1 (Figure 28). Weekly admissions in the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in both sectors.



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in weekly admissions in all districts since week 47 and decreased admissions since week 1 (Figure 29). Weekly admissions in the fourth wave exceeded the weekly number of admissions during the peak of the prior three waves in Frances Baard and Namakwa districts, but lower than the prior three waves in the other districts.

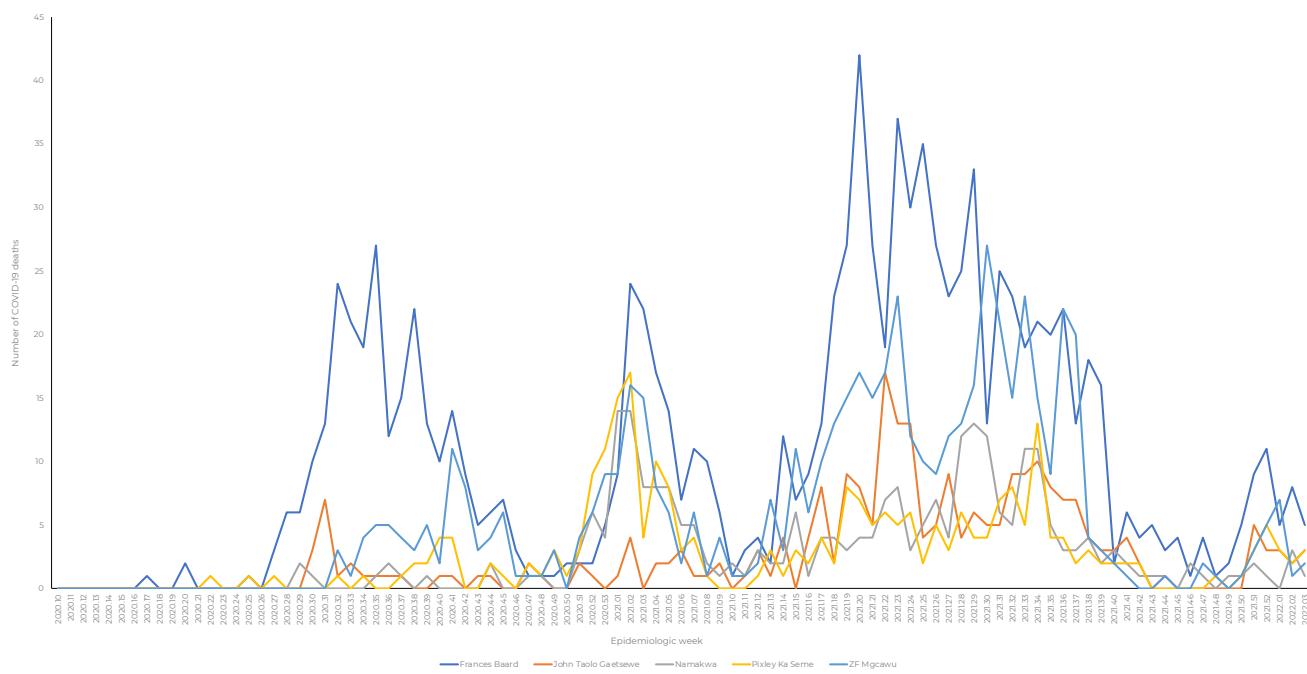


**Figure 29:** Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-22 January 2022, N=11,149

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a small increase in deaths in all districts (Figure 30). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at the peak of the prior three waves in all districts.



**Figure 30:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-22 January 2022, N=2,382

There has been a decrease in average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 12).

**Table 12:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 25 December 2021-22 January 2022.

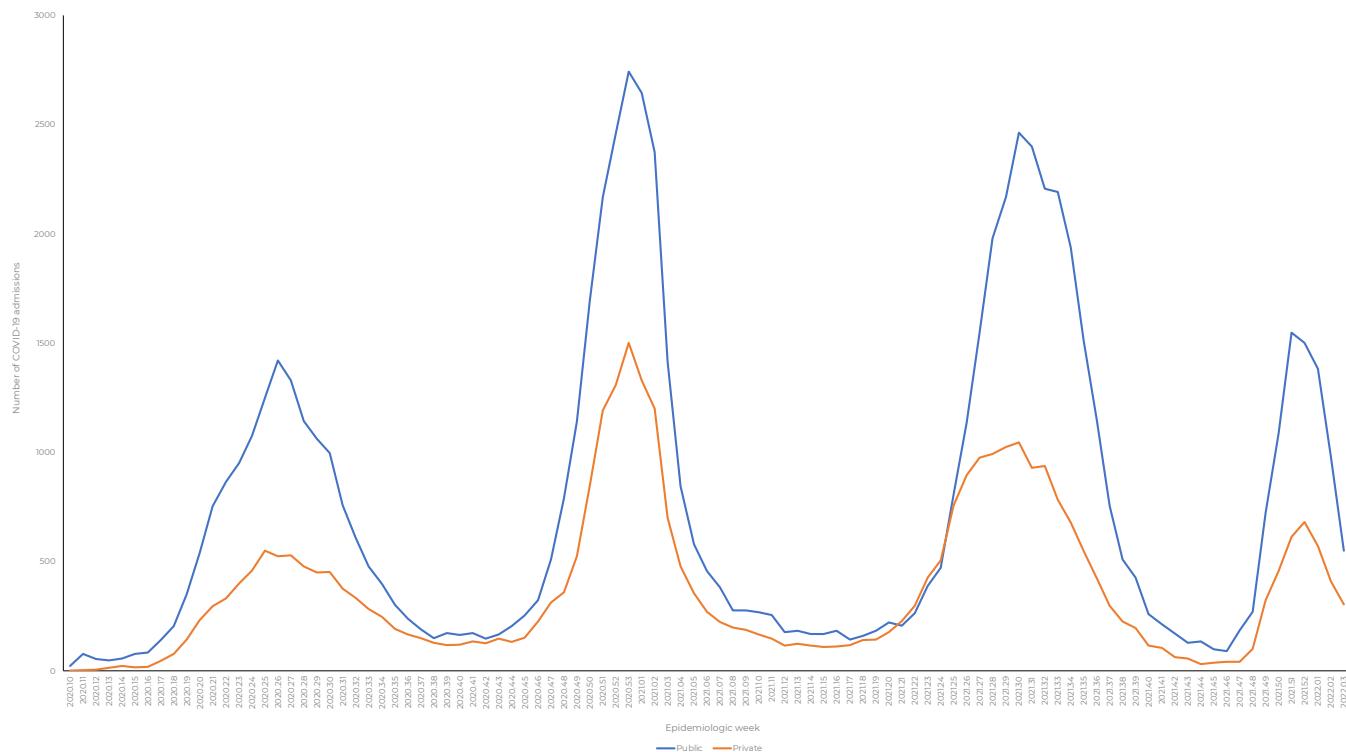
District	Previous 14 days average	Current 14 days average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Frances Baard	12.21	5.00	-59.06	1.14	0.93	-18.75
John Taolo Gaetsewe	2.71	1.50	-44.74	0.43	0.36	-16.67
Namakwa	6.36	4.00	-37.08	0.07	0.29	300.00
Pixley Ka Seme	1.64	1.07	-34.78	0.57	0.36	-37.50
ZF Mgcawu	4.57	4.21	-7.81	0.86	0.21	-75.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## WESTERN CAPE

In all four waves there were higher numbers of admissions in the public sector. Following an increase in admissions in both sectors since week 47, there has been decreased admissions since week 52 (Figure 31). Weekly admissions in the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in both sectors.

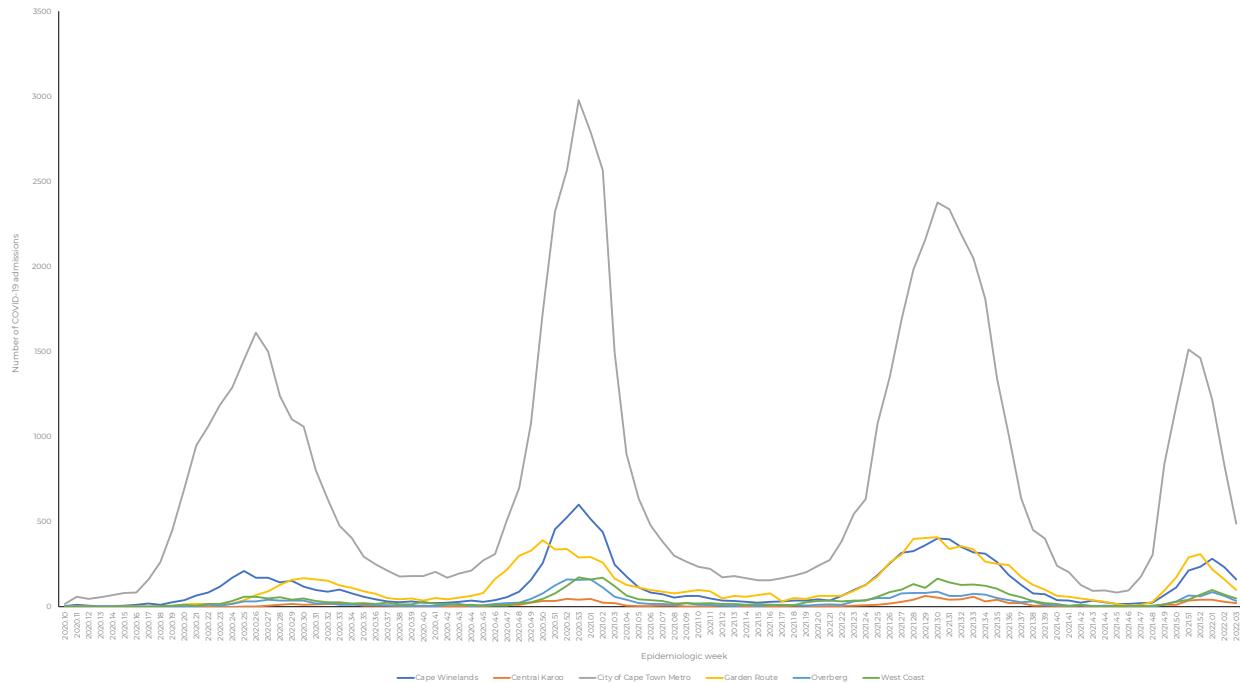


**Figure 31:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-22 January 2022, N=110,416

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been an increase in admissions in all districts since week 47 and decreased admissions in since week 52 (Figure 32). Weekly admissions during the fourth wave were lower than the weekly numbers of admissions at the peak of the second and third waves in all districts.

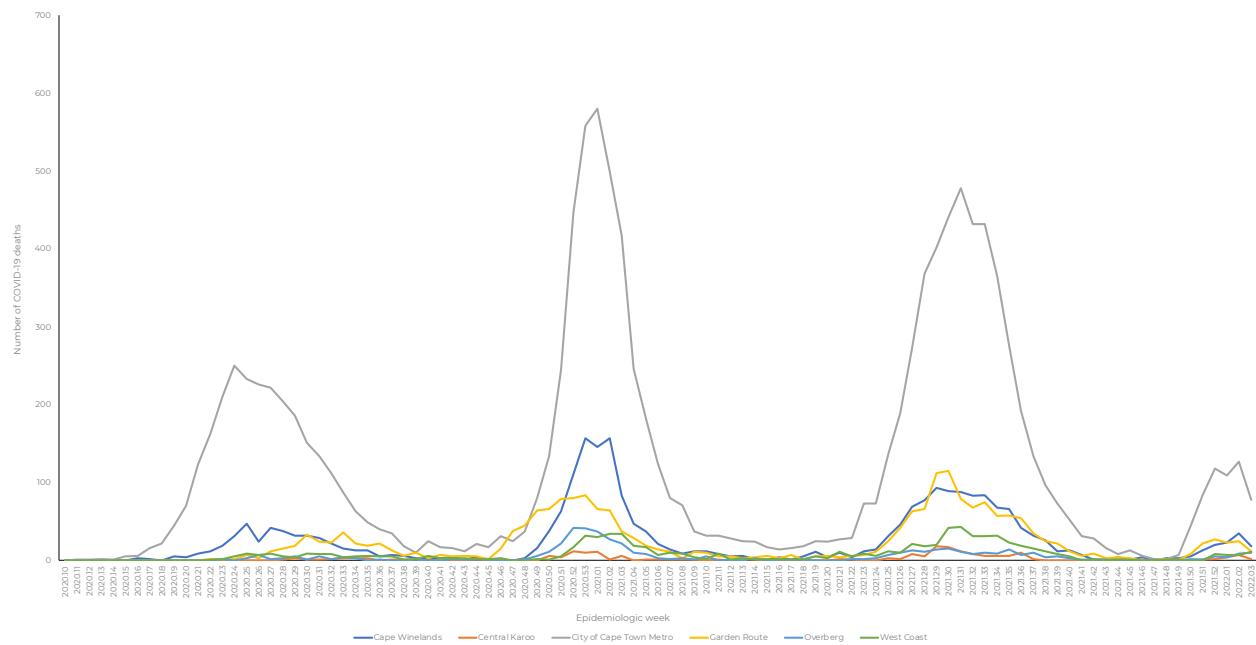


**Figure 32:** Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-22 January 2022, N=110,416

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

There has been a small increase in the numbers of deaths in City of Cape Town Metro (Figure 33). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths at the peak of the prior three waves in all districts.



**Figure 33:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-22 January 2022, N=18,186

There has been a decrease in average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in all districts (Table 13).

**Table 13:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 25 December 2021-22 January 2022.

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	37.00	28.07	-24.13	3.07	3.79	23.26
Central Karoo	5.86	3.79	-35.37	0.43	0.64	50.00
City of Cape Town Metro	191.57	94.14	-50.86	16.21	14.64	-9.69
Garden Route	37.86	18.50	-51.13	3.57	2.64	-26.00
Overberg	10.57	7.00	-33.78	0.64	1.36	111.11
West Coast	12.21	8.57	-29.82	1.07	1.29	20.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## 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.

Severity data has some inherent limitations. We rely on a proxy indicator for severity and do not have clinical or laboratory parameters to ascertain clinical severity. In the early and late phases of the wave there is likely to be lower severity due to there being sufficient hospital capacity. It may take a few weeks for hospitalisation outcomes to accumulate. Early reporting on case fatality ratio is also biased particularly in older adults who may have longer admissions and are more likely to die.

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## 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 3 2022

## APPENDIX

**Table 14:** Percentage incidence change in hospital admissions over 14 days, by district, South Africa, 8 January 2022-22 January 2022.

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	2641	320.31	18	2.18	-51.35
	Amathole	3237	413.64	13	1.66	-58.06
	Buffalo City Metro	10226	1291.99	49	6.19	-53.33
	Chris Hani	5074	712.08	20	2.81	-57.45
	Joe Gqabi	1159	337.98	5	1.46	-64.29
	Nelson Mandela Bay Metro	15996	1325.93	93	7.71	-33.09
	O R Tambo	4871	317.62	26	1.70	-33.33
	Sarah Baartman	3269	677.42	15	3.11	-66.67
Free State	Fezile Dabi	3508	685.76	24	4.69	-36.84
	Lejweleputswa	6142	940.32	38	5.82	-49.33
	Mangaung Metro	14130	1612.31	68	7.76	-60.47
	Thabo Mofutsanyana	5408	707.59	30	3.93	-52.38
	Xhariep	698	549.42	1	0.79	-75.00
Gauteng	City of Johannesburg Metro	50695	843.06	168	2.79	-49.55
	City of Tshwane Metro	39465	1033.02	256	6.70	-39.91
	Ekurhuleni Metro	31072	767.89	131	3.24	-41.26
	Sedibeng	8917	915.49	45	4.62	-23.73
	West Rand	12636	1321.19	51	5.33	-52.34
KwaZulu-Natal	Amajuba	4483	790.65	20	3.53	-9.09
	eThekweni Metro	36739	916.28	238	5.94	-41.81
	Harry Gwala	2561	506.00	19	3.75	-62.75
	iLembe	2947	423.59	10	1.44	-61.54
	King Cetshwayo	8831	925.56	65	6.81	-48.82
	Ugu	5415	673.13	25	3.11	-59.68
	uMgungundlovu	10859	952.62	81	7.11	-55.49

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	1437	208.87	7	1.02	-72.00
	Umgonyathi	2064	365.90	25	4.43	-40.48
	UThukela	3045	434.76	22	3.14	-55.10
	Zululand	2286	258.54	15	1.70	-72.73
Limpopo	Capricorn	8275	623.62	38	2.86	-30.91
	Mopani	3607	299.92	39	3.24	-32.76
	Sekhukhune	1995	163.98	7	0.58	-77.42
	Vhembe	2864	200.23	45	3.15	-15.09
	Waterberg	3095	412.58	8	1.07	-61.90
Mpumalanga	Ehlanzeni	7314	400.02	64	3.50	-25.58
	Gert Sibande	7231	570.32	33	2.60	-61.63
	Nkangala	6346	385.23	48	2.91	-22.58
North West	Bojanala Platinum	10978	563.50	50	2.57	-18.03
	Dr Kenneth Kaunda	16396	2041.08	93	11.58	-40.76
	Dr Ruth Segomotsi Mompati	2215	474.79	11	2.36	-71.05
	Ngaka Modiri Molema	2088	230.75	0	0.00	-100.00
Northern Cape	Frances Baard	5220	1254.90	18	4.33	-68.97
	John Taolo Gaetsewe	1595	577.15	10	3.62	-37.50
	Namakwa	1250	1068.46	20	17.10	-53.49
	Pixley Ka Seme	889	422.50	3	1.43	-75.00
	ZF Mgcawu	2205	778.29	29	10.24	-6.45
Western Cape	Cape Winelands	12656	1324.11	255	26.68	-26.93
	Central Karoo	1341	1769.32	31	40.90	-36.73
	City of Cape Town Metro	77436	1655.00	682	14.58	-49.52
	Garden Route	12585	2003.20	127	20.22	-40.93
	Overberg	3036	993.69	51	16.69	-37.80
	West Coast	4162	886.48	64	13.63	-37.86

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2022

## APPENDIX

**Table 15:** Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-22 January 2022.

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	5221	6493	34	11748	169	178	2	349
5-9	1471	1935	8	3414	27	27	0	54
10-14	2182	2154	9	4345	64	58	0	122
15-19	6298	3417	6	9721	139	124	0	263
20-24	9992	4954	6	14952	314	242	1	557
25-29	15840	7171	14	23025	697	472	1	1170
30-34	20367	11445	11	31823	1178	1015	1	2194
35-39	21257	15213	20	36490	1733	1625	4	3362
40-44	19068	16932	14	36014	2146	2223	0	4369
45-49	21248	20947	13	42208	3093	3278	1	6372
50-54	24810	23235	11	48056	4266	4397	2	8665
55-59	27723	25143	13	52879	6059	6061	5	12125
60-64	24520	22506	20	47046	6531	6715	6	13252
65-69	21179	18878	17	40074	6754	6317	6	13077
70-74	17981	15830	19	33830	5979	5817	4	11800
75-79	13451	11052	9	24512	4720	4401	3	9124
80-84	10241	7110	8	17359	3869	2986	3	6858
85-89	5529	3422	2	8953	2140	1559	0	3699
90-94	2408	1179	1	3588	1046	595	0	1641
>=95	760	359	2	1121	343	151	0	494
Unknown	1177	1187	45	2409	69	113	0	182
<b>Total</b>	<b>272723</b>	<b>220562</b>	<b>282</b>	<b>493567</b>	<b>51336</b>	<b>48354</b>	<b>39</b>	<b>99729</b>