

# COVID-19 HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR  
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 2 2022

## 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 15 January 2022.

## HIGHLIGHTS

- As of 15 January 2022, 489,384 COVID-19 admissions and 99,144 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 two weeks. Decreases in the most recent week may be due to delays in data submission.
- There has been a small increase in in-hospital COVID-19 deaths in both public and private sectors in all provinces since week 48. 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 except in the Western Cape.

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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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 2020 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 15 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

**Table 1.** Number of hospitals reporting data on COVID-19 admissions by province and sector, South Africa, 5 March 2020-15 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>

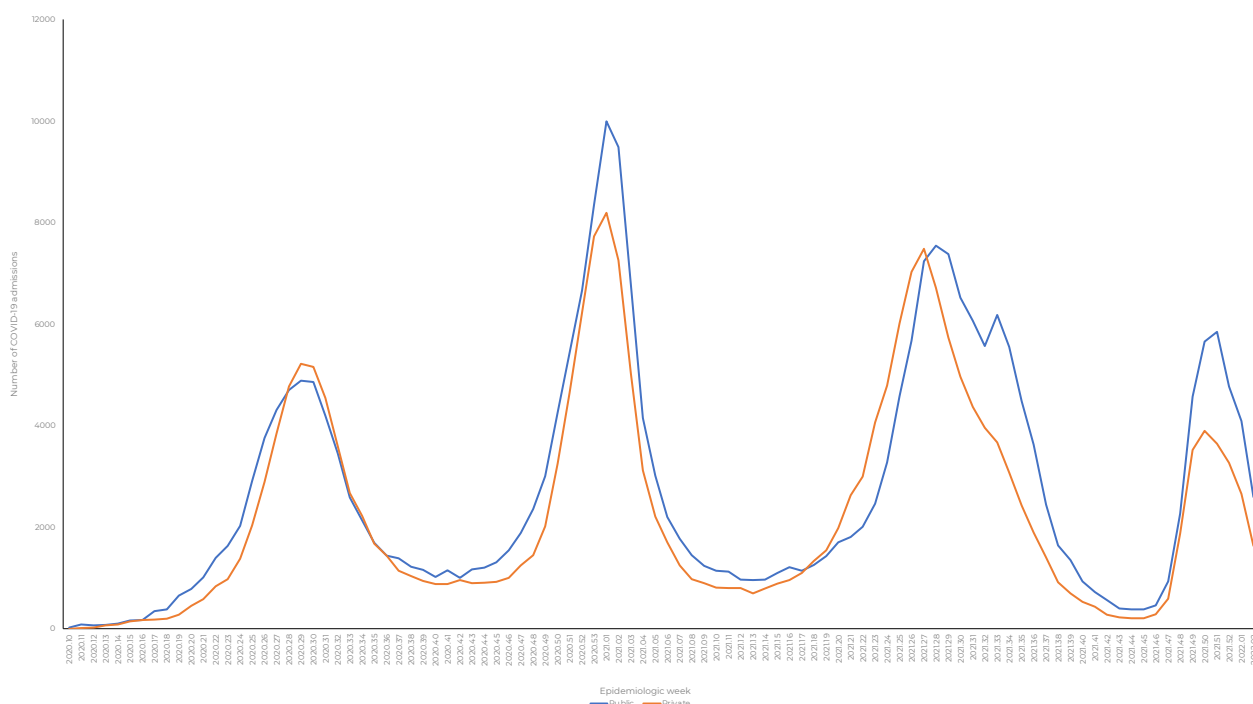
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## RESULTS

### Epidemiological and geographic trends in admissions

From 5 March 2020 to 15 January 2022, a total of 489,384 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 50 (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.

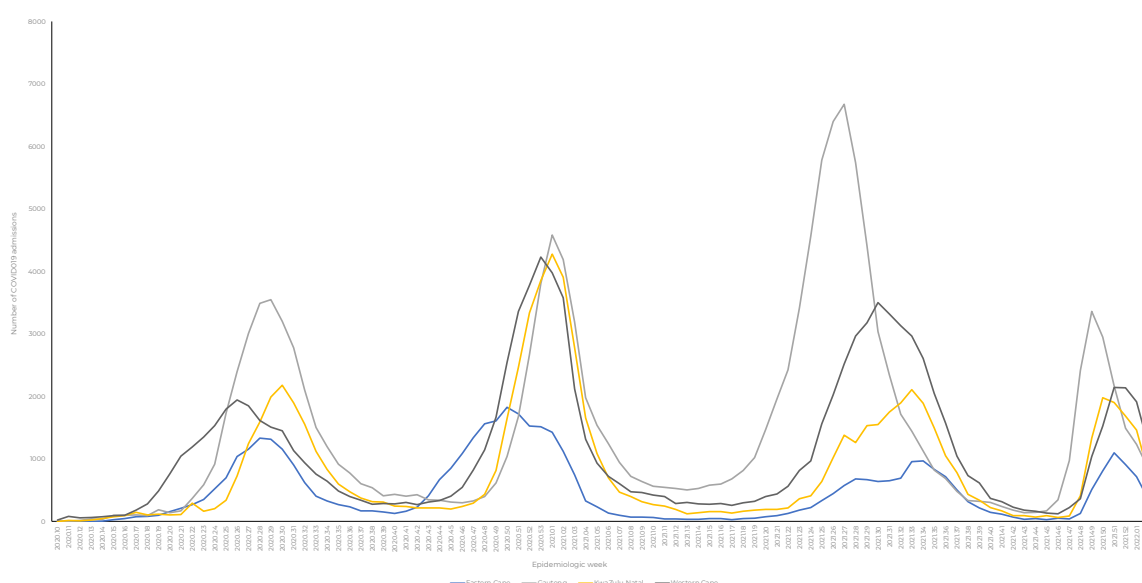


**Figure 1.** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-15 January 2022, N=489,384

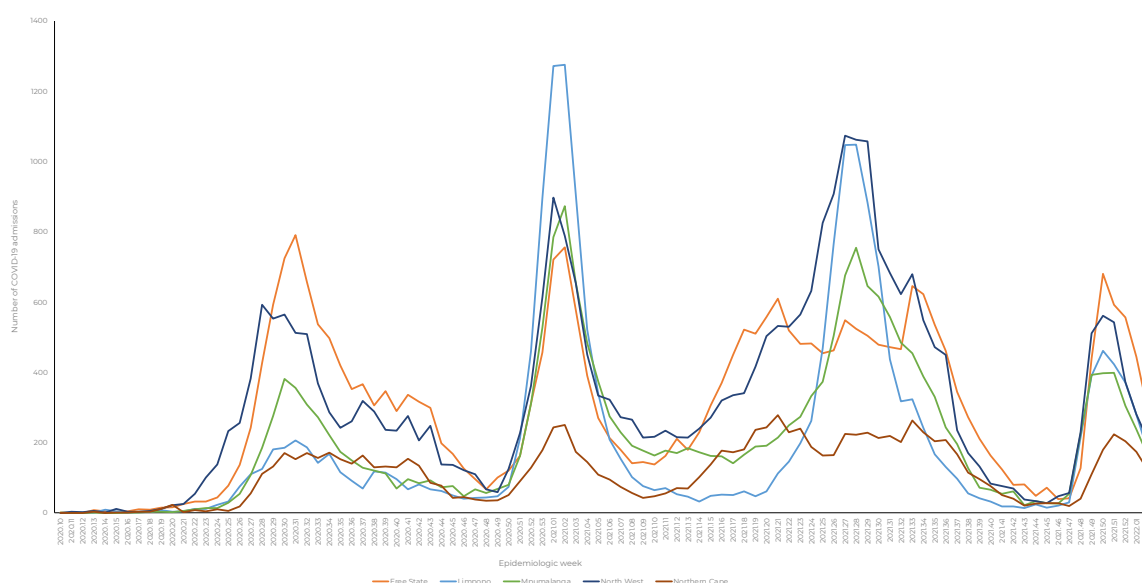
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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The majority of admissions were recorded in four provinces, Gauteng 141,754 (29%), Western Cape 109,204 (22%), KwaZulu-Natal 79,859 (16%) and Eastern Cape 46,113 (9%) provinces. There has been a decrease in admissions in all provinces over the past two 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 2020-15 January 2022, N=489,384

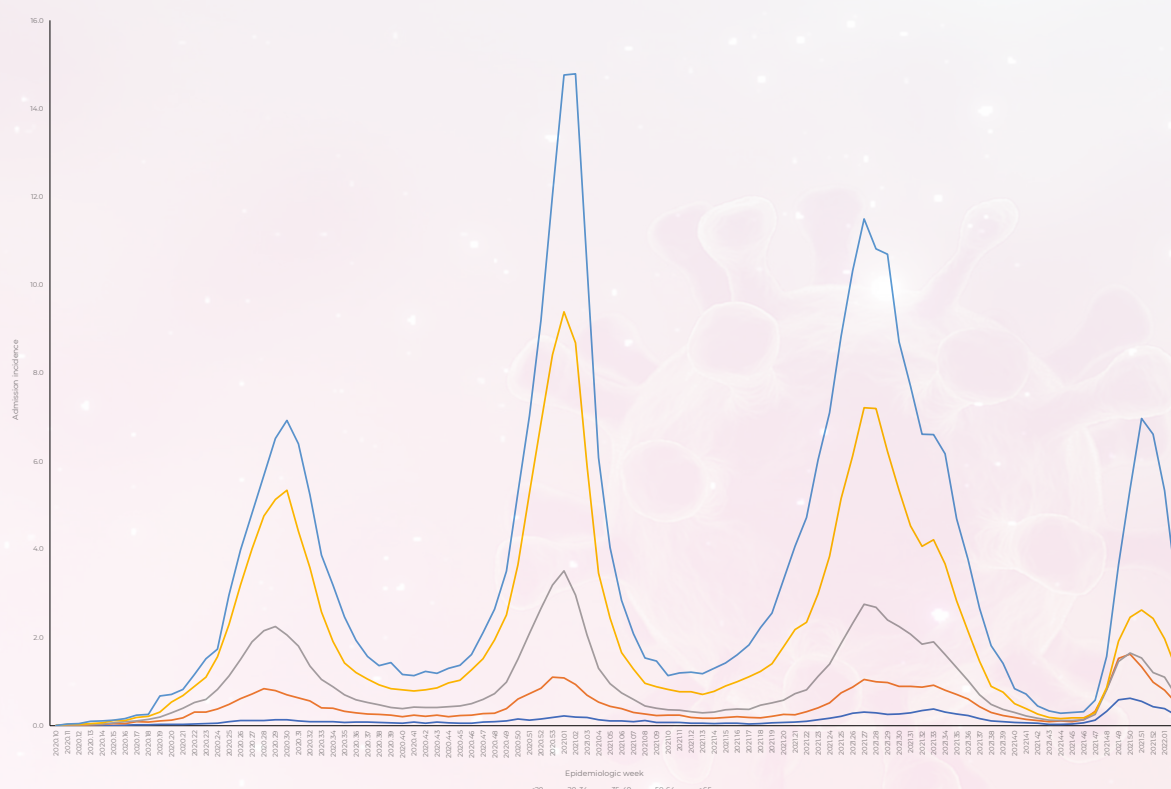


**Figure 2b.** Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-15 January 2022, N=489,384

# 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 7,448 admissions in <20 years, 17,474 in 20-39 years, 12,469 in 40-59 years, and 15,789 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 2020-15 January 2022, N=489,384

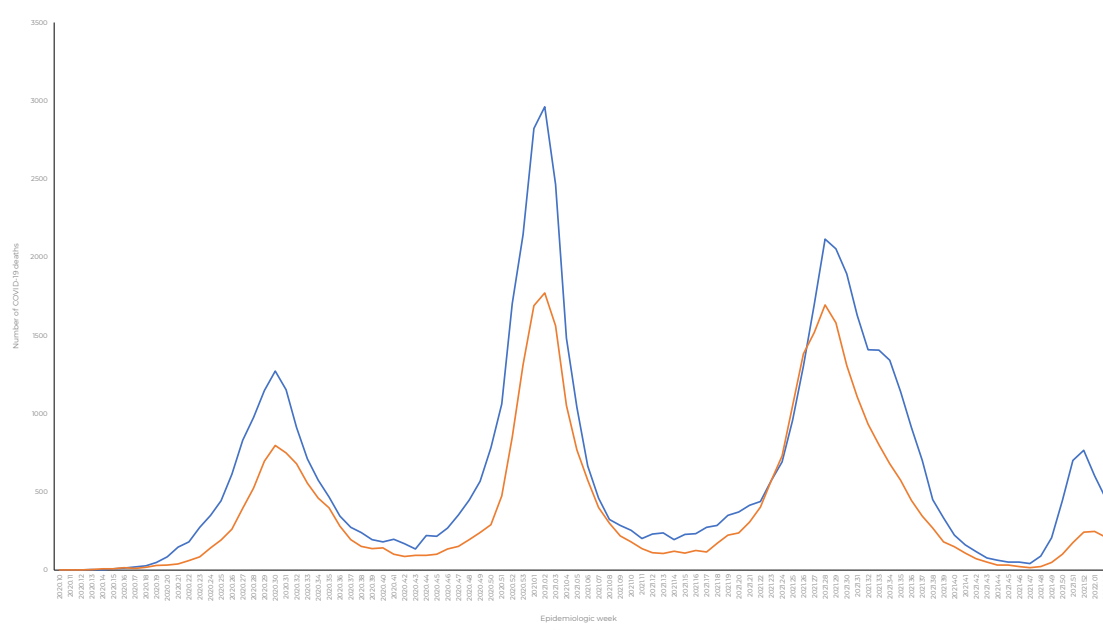


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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## EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

A total of 99,144 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 (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.

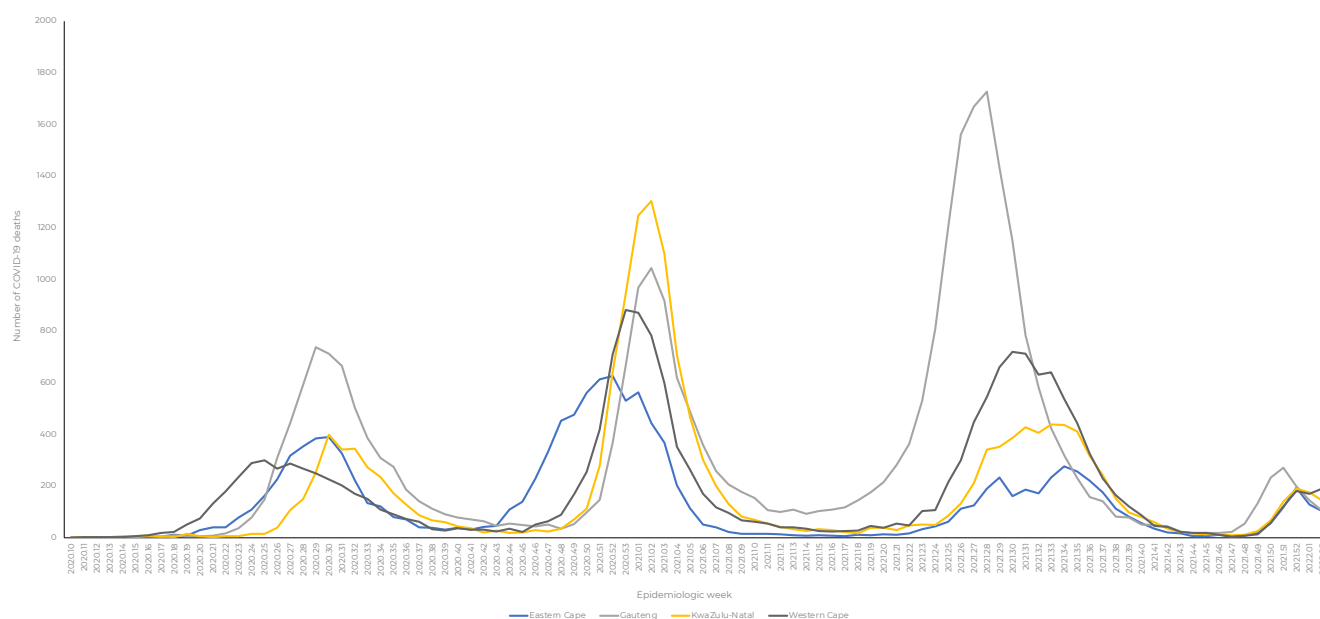


**Figure 4.** Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-15 January 2022, N=99,144

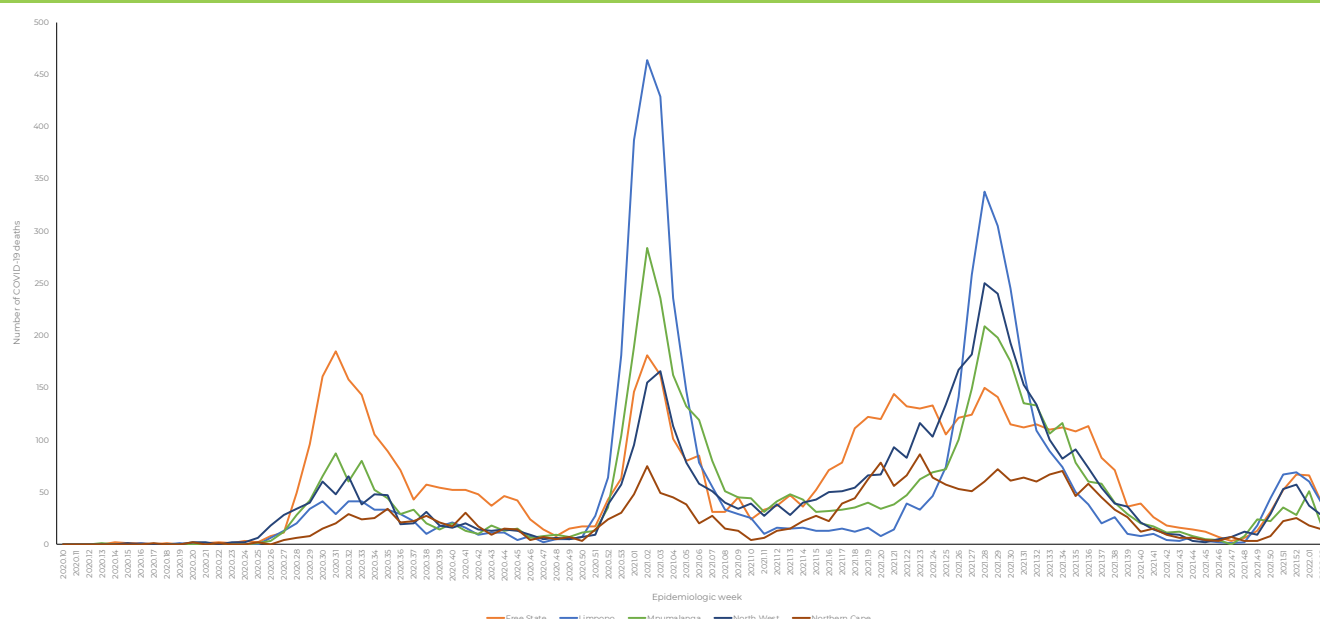
# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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Most deaths were reported in Gauteng 28,946 (29%), Western Cape 18,033 (18%), KwaZulu-Natal 16,562 (17%), and Eastern Cape 12,822 (13%). There has been a small 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 two weeks except Western Cape.



**Figure 5a.** Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-15 January 2022, N=99,144

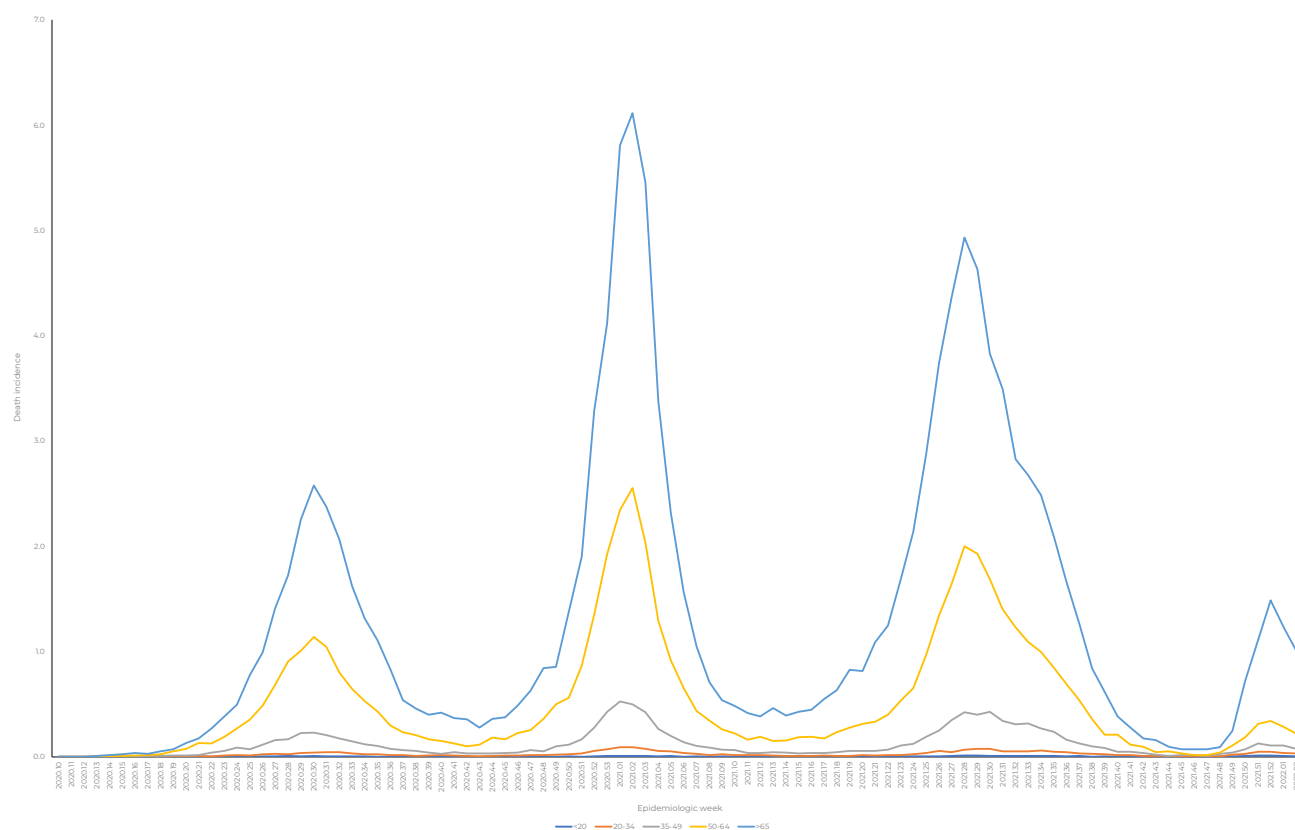


**Figure 5b.** Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-15 January 2022, N=99,144

# 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 128 deaths in <20 years, 603 in 20-39 years, 1,126 in 40-59 years, and 2,670 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 2020-15 January 2022, N=99,144



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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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 2020-15 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	46113	690.7	12822	192.0
Free State	2932441	29643	1010.9	5878	200.4
Gauteng	15810388	141 754	896.6	28945	183.1
KwaZulu-Natal	11513575	79859	693.6	16559	143.8
Limpopo	5926724	19632	331.2	5168	87.2
Mpumalanga	4743584	20632	434.9	4698	99.0
North West	4122854	31 495	763.9	4666	113.2
Northern Cape	1303047	11 052	848.2	2370	181.9
Western Cape	7113776	109 204	1535.1	18032	253.5
<b>South Africa</b>	<b>60142978</b>	<b>489 384</b>	<b>813.7</b>	<b>99 138</b>	<b>164.8</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 comparing the previous 14 days and the current 14 days in all provinces (Table 3). There has been a decrease in the average daily COVID-19 deaths comparing the previous 14 days and the current 14 days in all provinces except in Mpumalanga and Western Cape.

**Table 3.** Previous 14 days and current 14 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 18 December 2021-15 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	143.21	77.79	-45.69	22.14	16.43	-25.81
Free State	82.07	52.50	-36.03	8.50	7.43	-12.61
Gauteng	260.86	148.93	-42.91	33.43	17.64	-47.22
KwaZulu-Natal	256.07	161.21	-37.04	23.43	22.71	-3.05
Limpopo	56.71	32.57	-42.57	9.71	7.00	-27.94
Mpumalanga	50.29	28.64	-43.04	4.50	4.79	6.35
North West	65.36	34.86	-46.67	7.86	4.57	-41.82
Northern Cape	30.57	21.07	-31.07	3.36	2.29	-31.91
Western Cape	306.07	225.36	-26.37	21.50	25.64	19.27

\* 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 comparing the previous 7 days and the current 7 days in all provinces; and a decrease in deaths comparing the previous 7 days and the current 7 days in all provinces except in Western Cape (Table 4).

**Table 3.** Previous 7 days and current 7 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 18-15 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	102.57	53.00	-48.33	18.29	14.57	-20.31
Free State	63.43	41.57	-34.46	9.43	5.43	-42.42
Gauteng	175.86	122.00	-30.63	20.57	14.71	-28.47
KwaZulu-Natal	208.43	114.00	-45.31	24.86	20.57	-17.24
Limpopo	39.86	25.29	-36.56	8.57	5.43	-36.67
Mpumalanga	33.86	23.43	-30.80	7.29	2.29	-68.63
North West	40.14	29.57	-26.33	5.29	3.86	-27.03
Northern Cape	24.71	17.43	-29.48	2.57	2.00	-22.22
Western Cape	273.14	177.57	-34.99	24.29	27.00	11.18

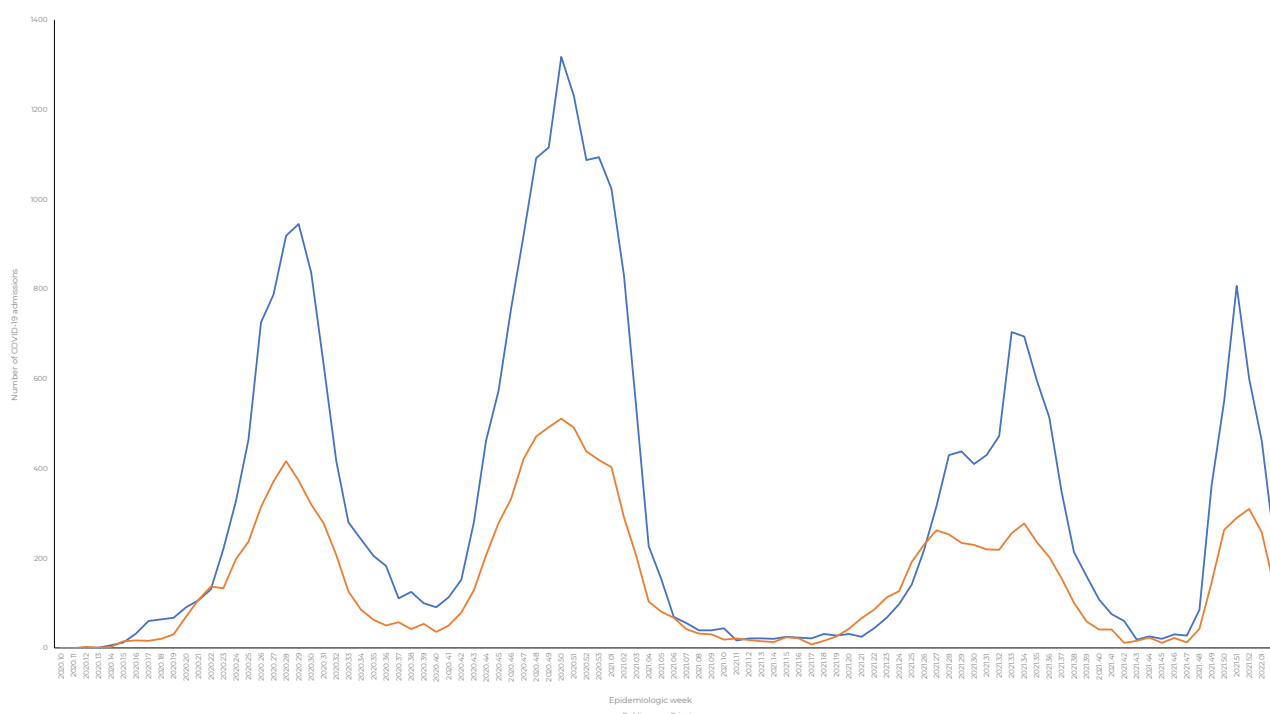
\* Reporting of new admissions in the most recent week may be delayed

# 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 in the past three weeks (Figure 7). Weekly admissions during the fourth wave were similar to the weekly numbers of admissions at the peak of the third wave in both sectors, and lower than the first and second waves.

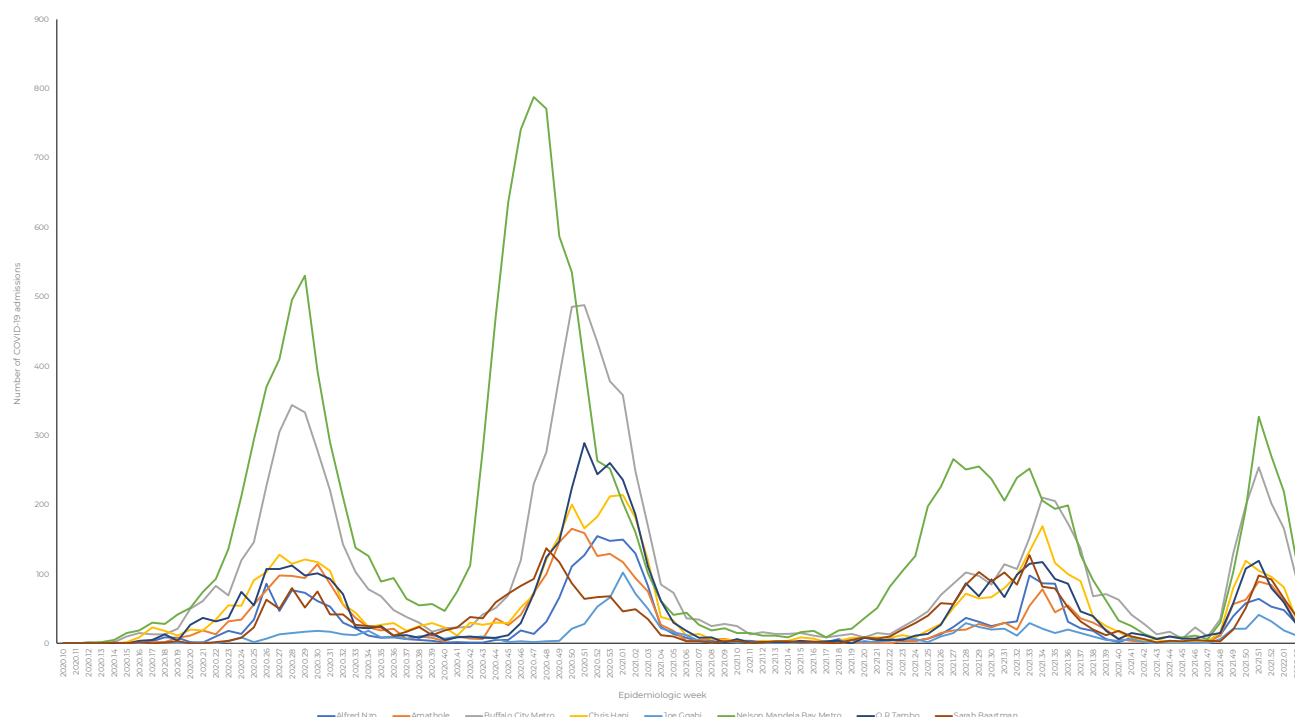


**Figure 7:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-15 January 2022, N=46,113

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

There has been an increase in admissions in all districts since week 46 and a decrease in all districts in the past three weeks (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



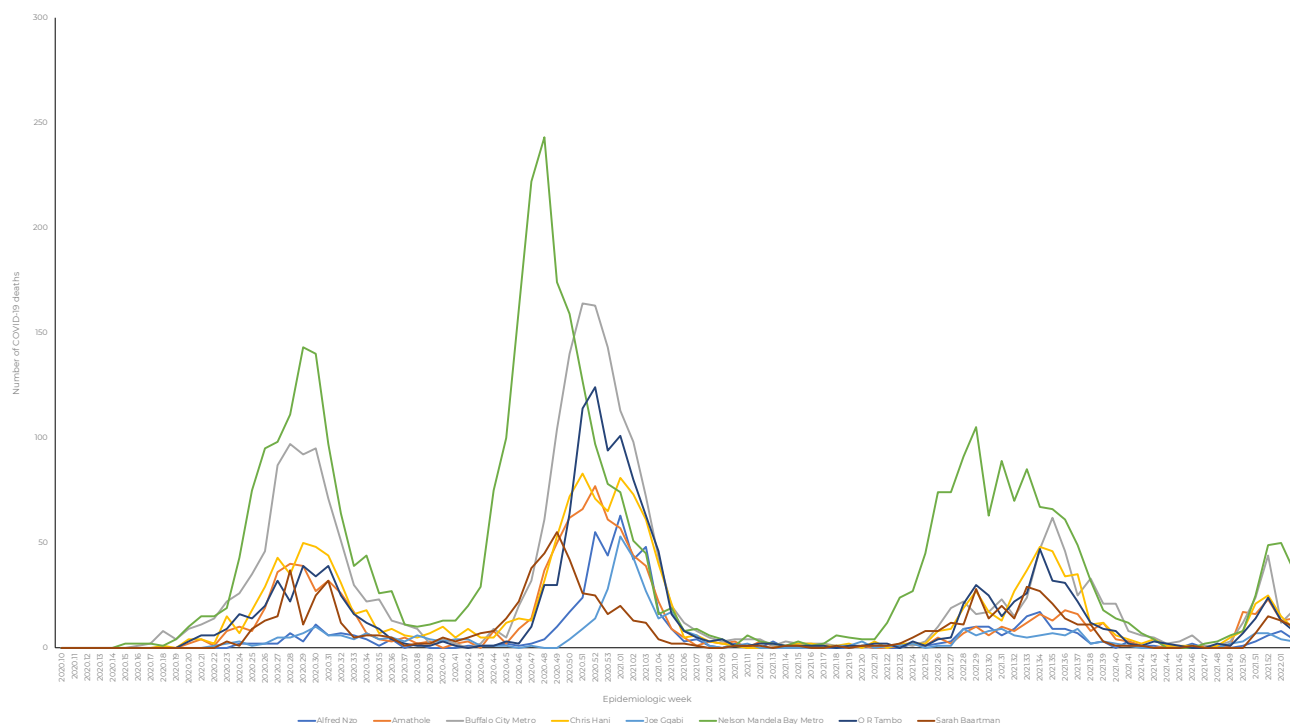
**Figure 8.** Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-15 January 2022, N=46,113



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

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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 2020-15 January 2022, N=12,822

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

There has been a decrease in the average daily COVID-19 admissions 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, 18 December 2021-15 January 2022.

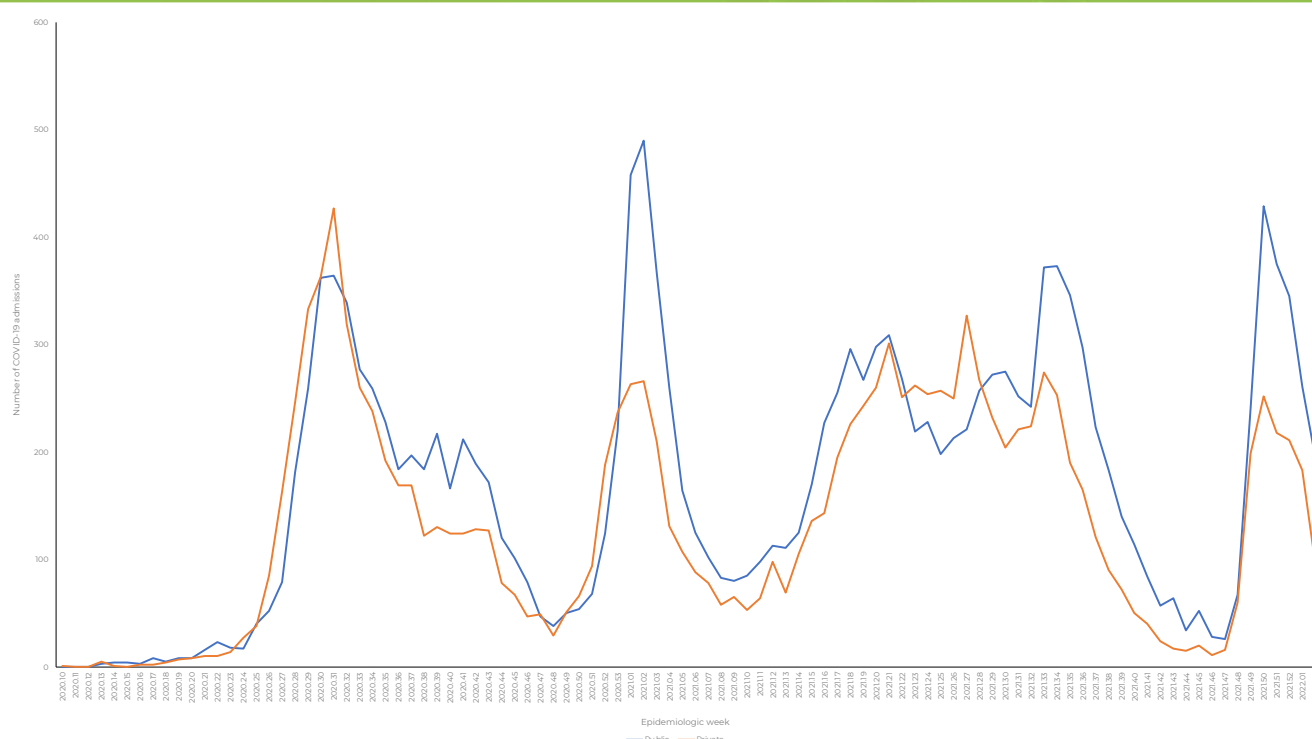
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Alfred Nzo	8.36	5.43	-35.04	0.64	0.86	33.33
Amathole	12.36	6.36	-48.55	2.79	1.86	-33.33
Buffalo City Metro	32.57	18.36	-43.64	4.86	2.14	-55.88
Chris Hani	14.36	8.14	-43.28	3.29	1.71	-47.83
Joe Gqabi	5.21	2.14	-58.90	1.00	0.50	-50.00
Nelson Mandela Bay	42.57	23.93	-43.79	5.29	6.21	17.57
O R Tambo	14.21	6.07	-57.29	2.71	1.50	-44.74
Sarah Baartman	13.57	7.36	-45.79	1.57	1.64	4.55

# 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.

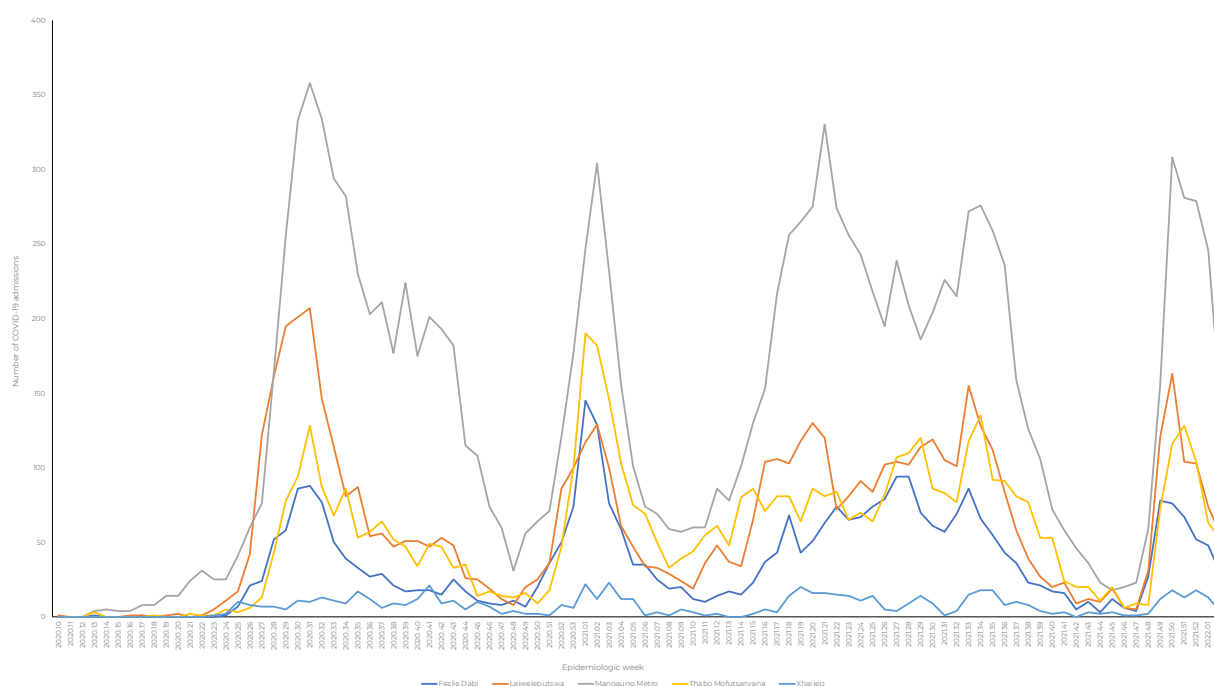


**Figure 10:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-15 January 2022, N=29,643

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

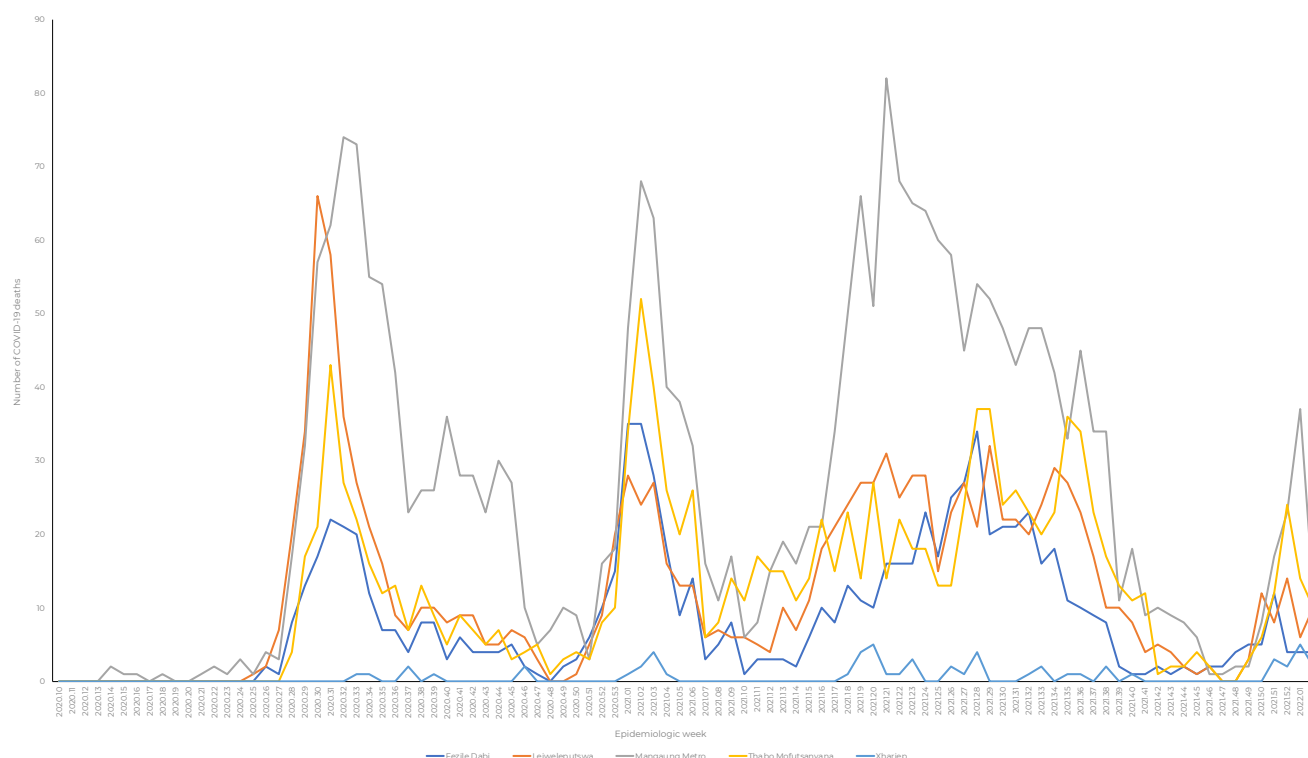


**Figure 11:** Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-15 January 2022, N=29,643

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

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 2020–15 January 2022, N=5,878



# 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, 18 December 2021-15 January 2022.

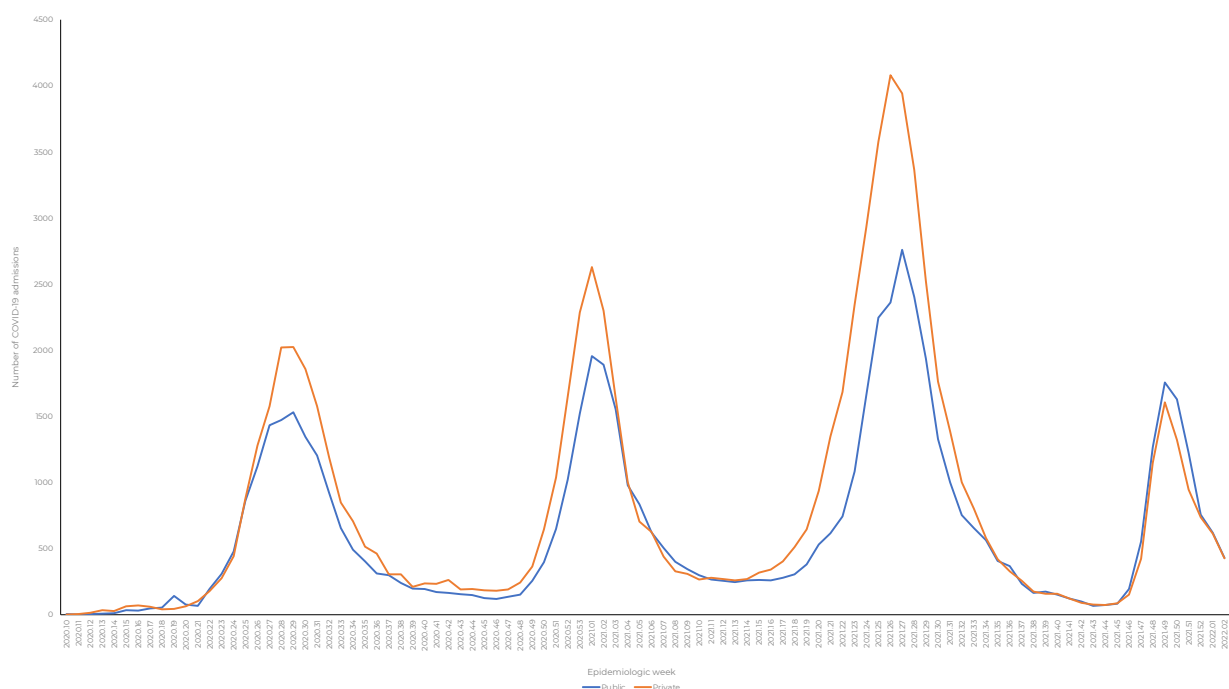
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Fezile Dabi	8.50	5.57	-34.45	1.14	0.57	-50.00
Lejweleputswa	14.79	9.29	-37.20	1.57	1.14	-27.27
Mangaung Metro	40.00	28.14	-29.64	2.86	3.50	22.50
Thabo Mofutsanyana	16.57	8.29	-50.00	2.57	1.71	-33.33
Xhariep	2.21	1.21	-45.16	0.36	0.50	40.00

# 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.

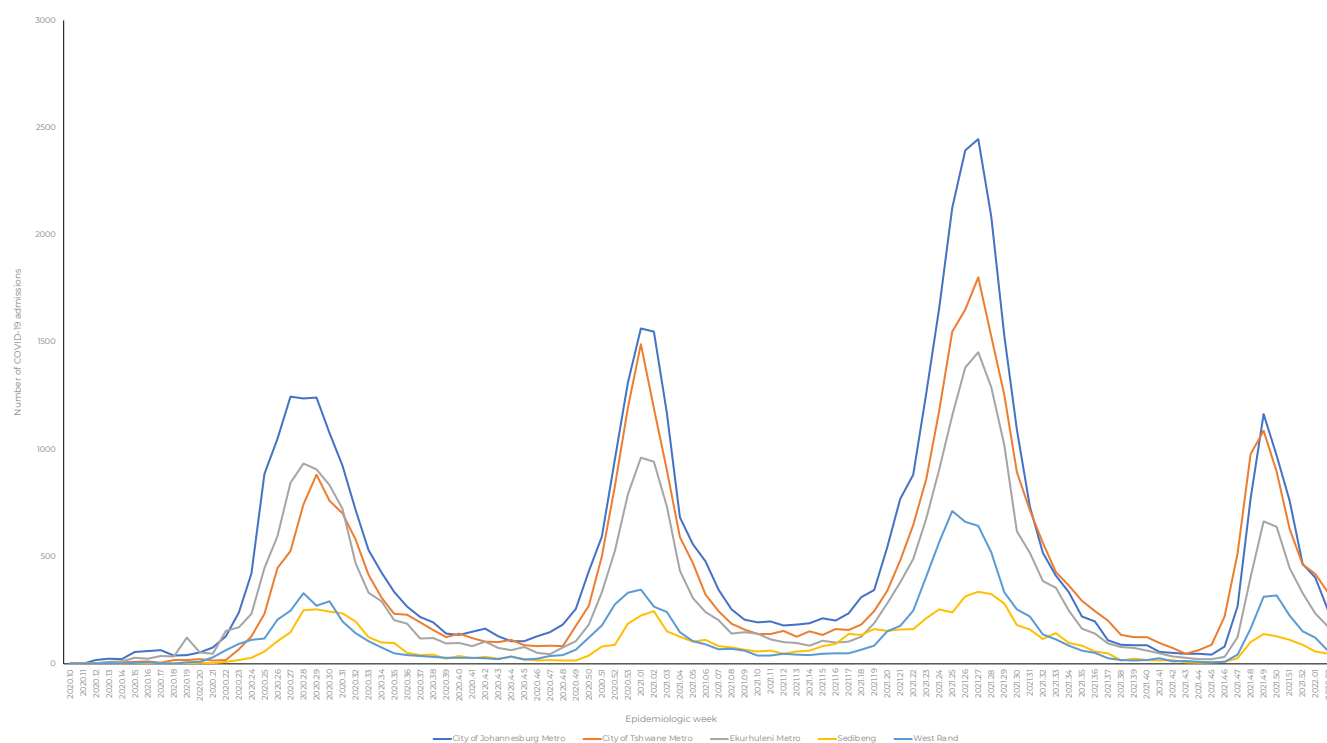


**Figure 13:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-15 January 2022, N=141,754

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

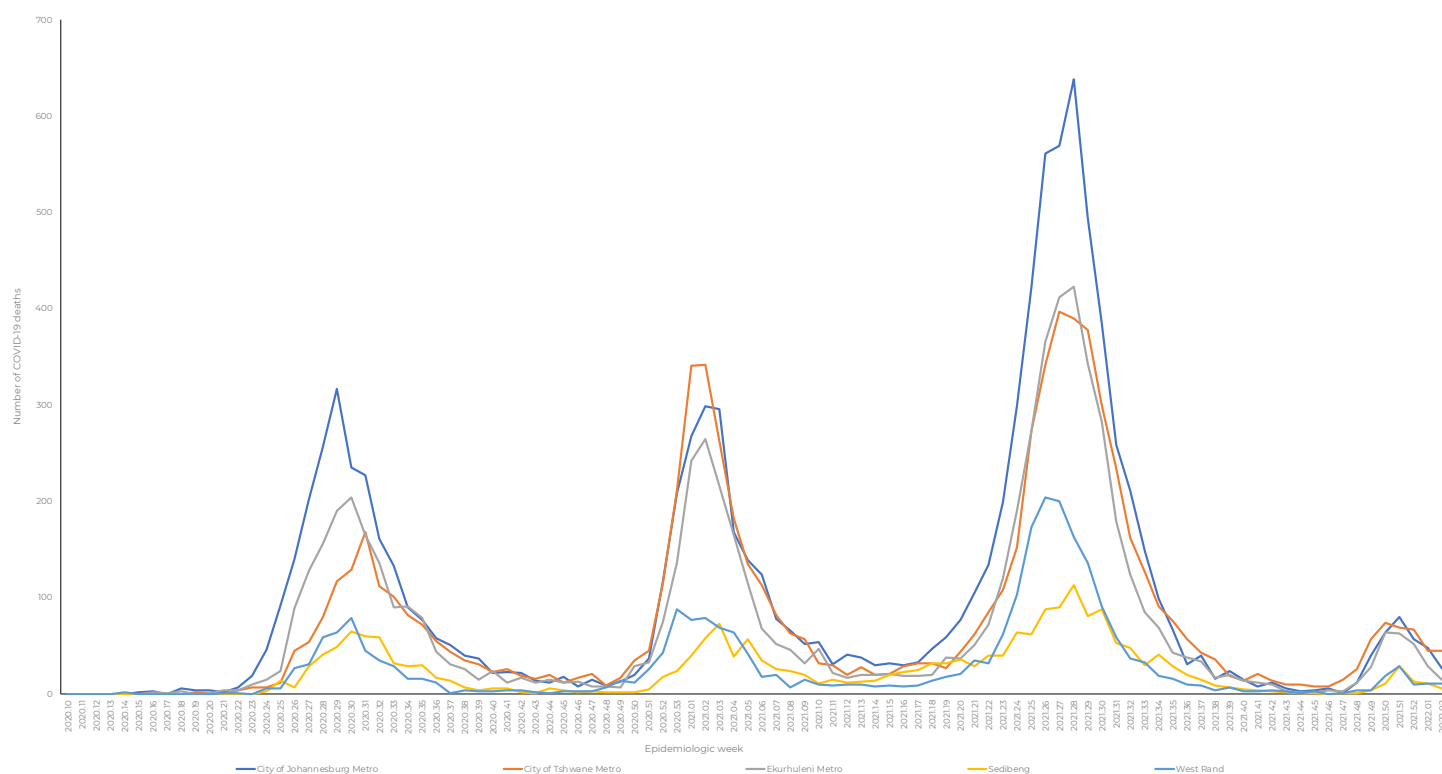


**Figure 14:** Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-15 January 2022, N=141,754

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

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 2020-15 January 2022, N=28,946

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 7).

**Table 7:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 18 December 2021-15 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	87.43	46.29	-47.06	9.79	5.29	-45.99
City of Tshwane Metro	77.36	53.36	-31.02	9.64	6.43	-33.33
Ekurhuleni Metro	55.29	29.07	-47.42	8.21	3.14	-61.74
Sedibeng	14.29	7.29	-49.00	3.00	1.21	-59.52
West Rand	26.50	12.93	-51.21	2.79	1.57	-43.59

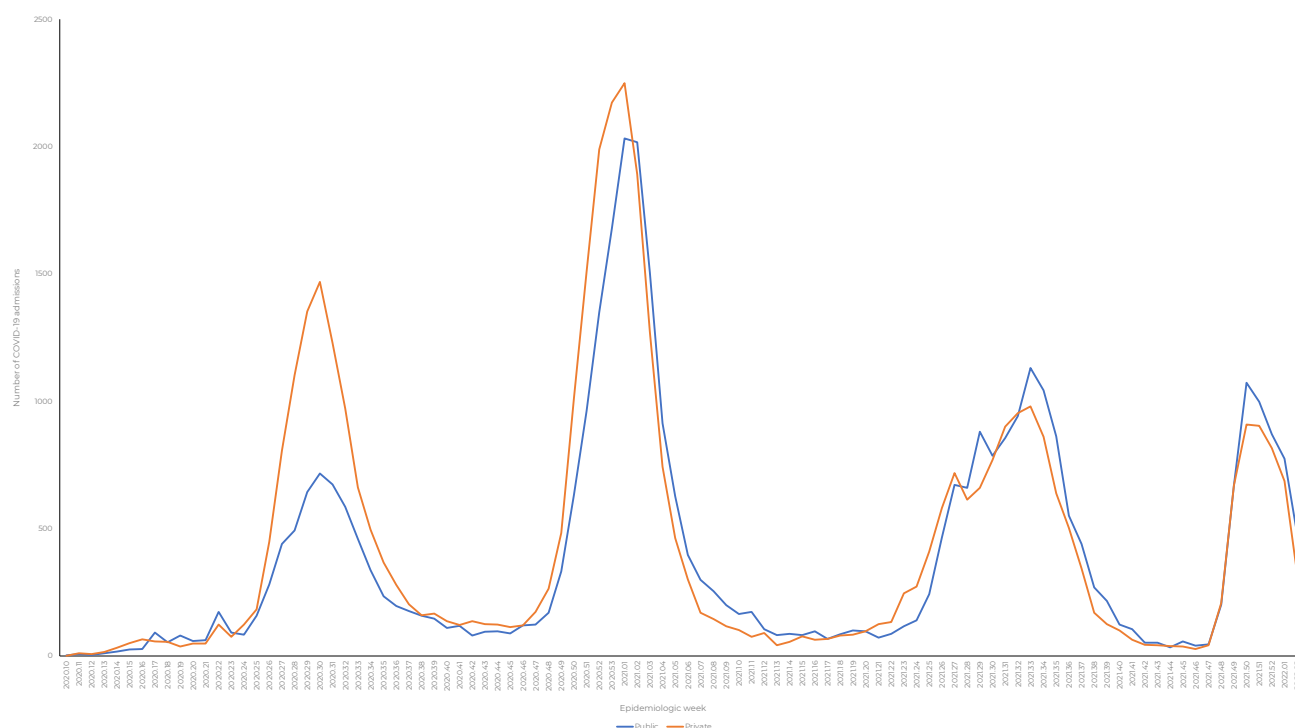


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

## 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.

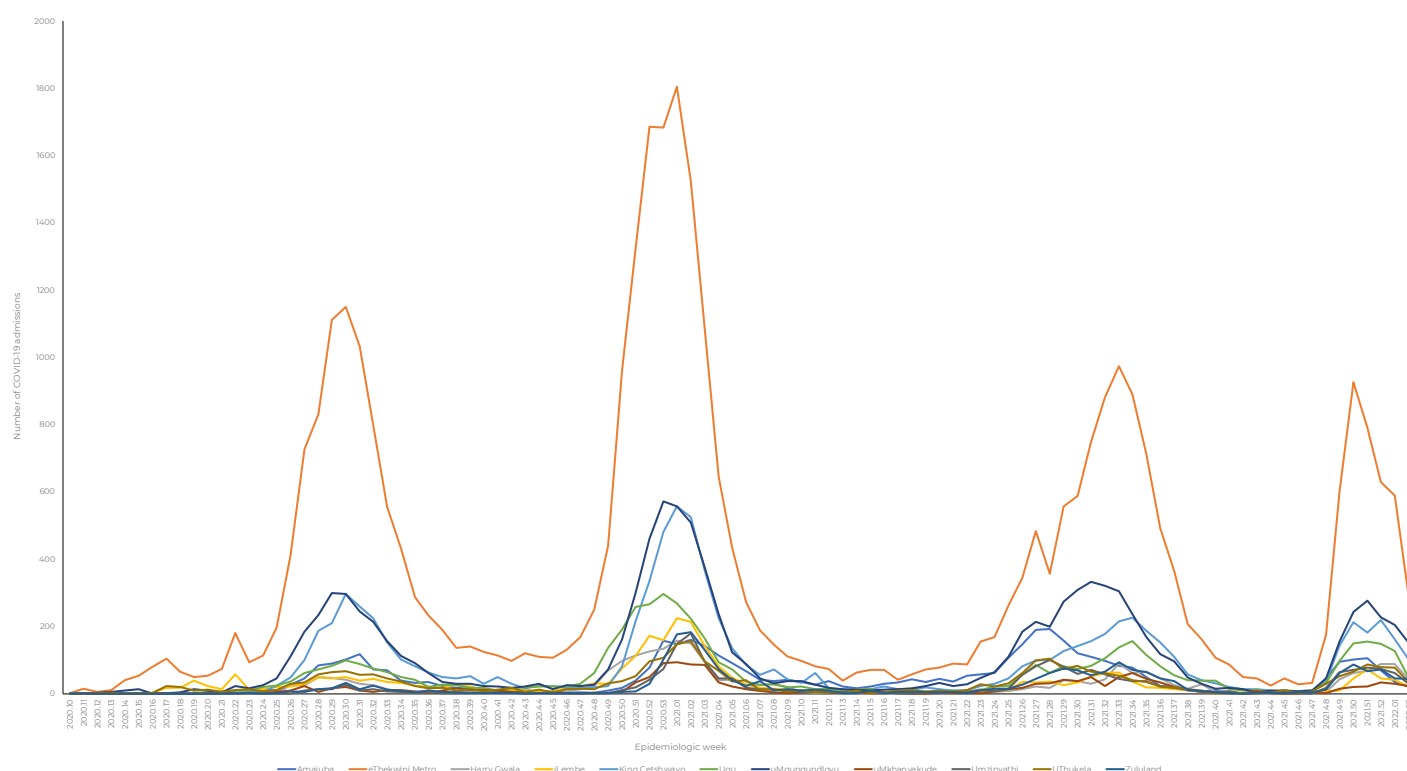


**Figure 16:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-15 January 2022, N=79,859

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

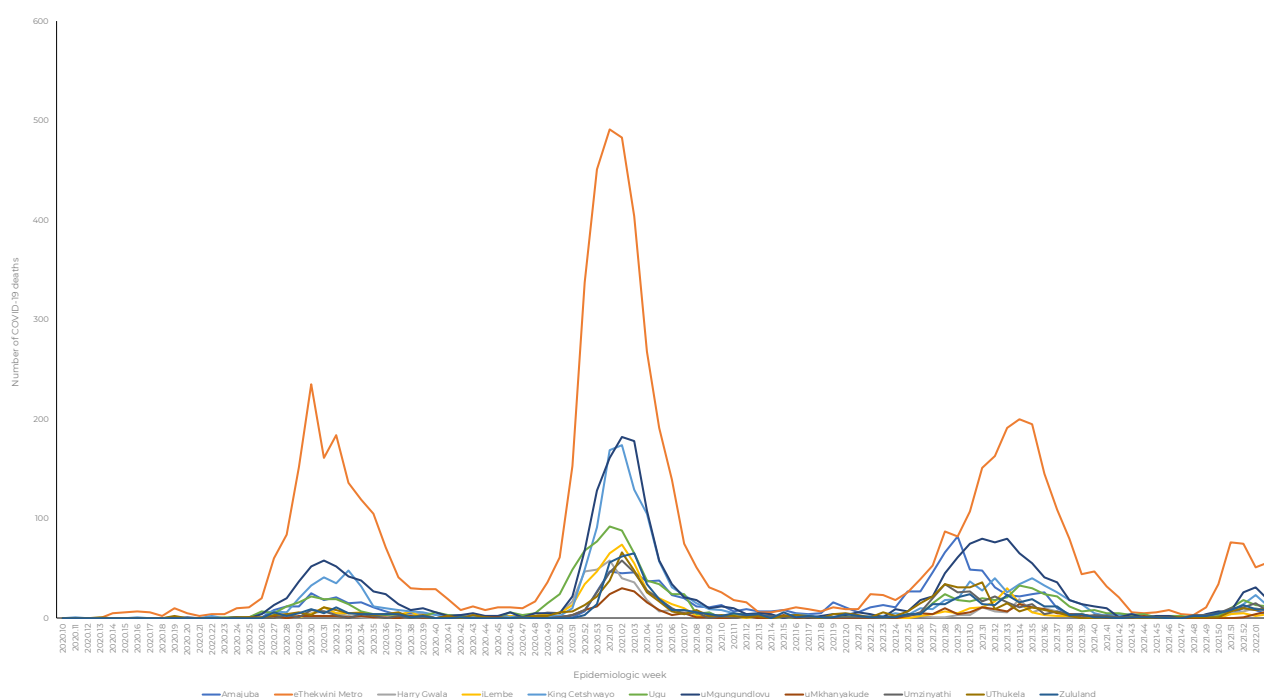


**Figure 17:** Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-15 January 2022, N=79,859

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

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 2020-15 January 2022, N=16,562

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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, 18 December 2021-15 January 2022.

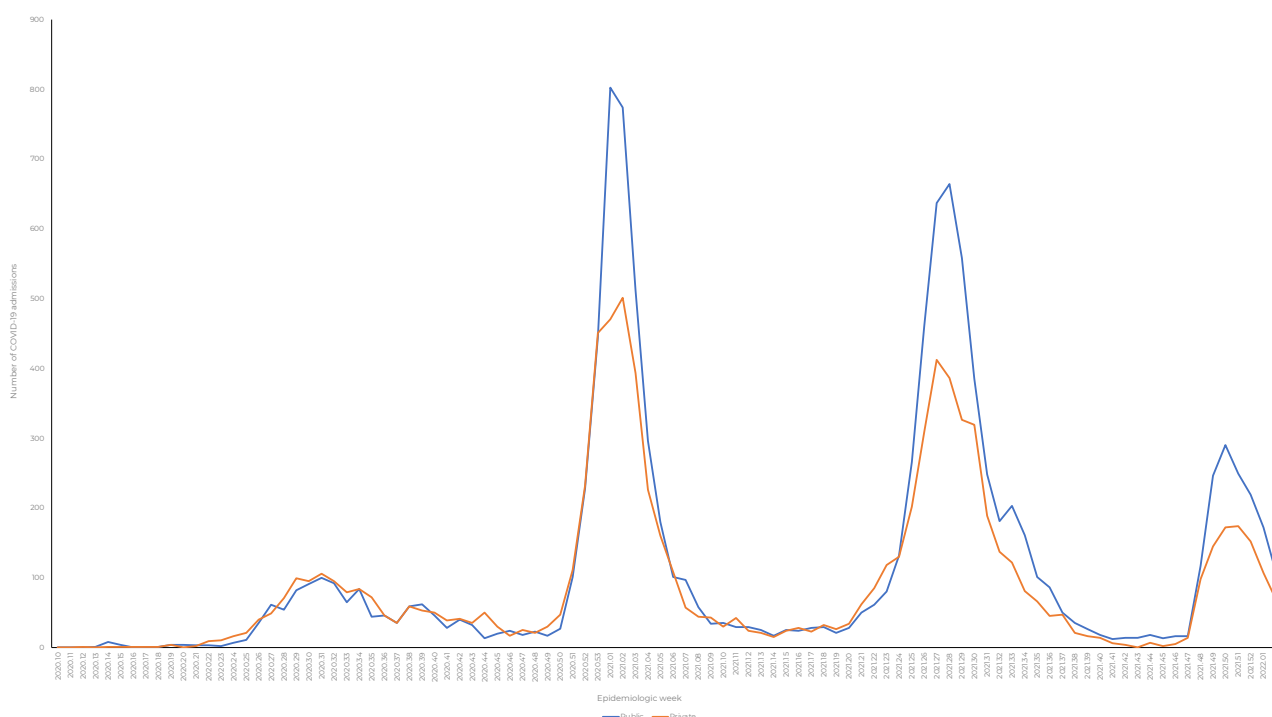
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Amajuba	12.43	3.93	-68.39	1.00	0.79	-21.43
eThekweni Metro	101.36	62.64	-38.20	10.79	7.64	-29.14
Harry Gwala	11.14	9.29	-16.67	0.86	1.21	41.67
iLembe	8.43	4.43	-47.46	0.64	0.43	-33.33
King Cetshwayo	28.57	18.57	-35.00	1.50	2.50	66.67
Ugu	21.64	12.43	-42.57	2.00	1.79	-10.71
uMgungundlovu	35.93	25.36	-29.42	2.36	3.50	48.48
uMkhanyakude	4.00	3.79	-5.36	0.07	0.79	1000.00
Umzinyathi	10.79	6.57	-39.07	1.50	1.57	4.76
UThukela	11.86	7.86	-33.73	1.21	1.29	5.88
Zululand	9.93	6.36	-35.97	1.50	1.21	-19.05

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

## 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.



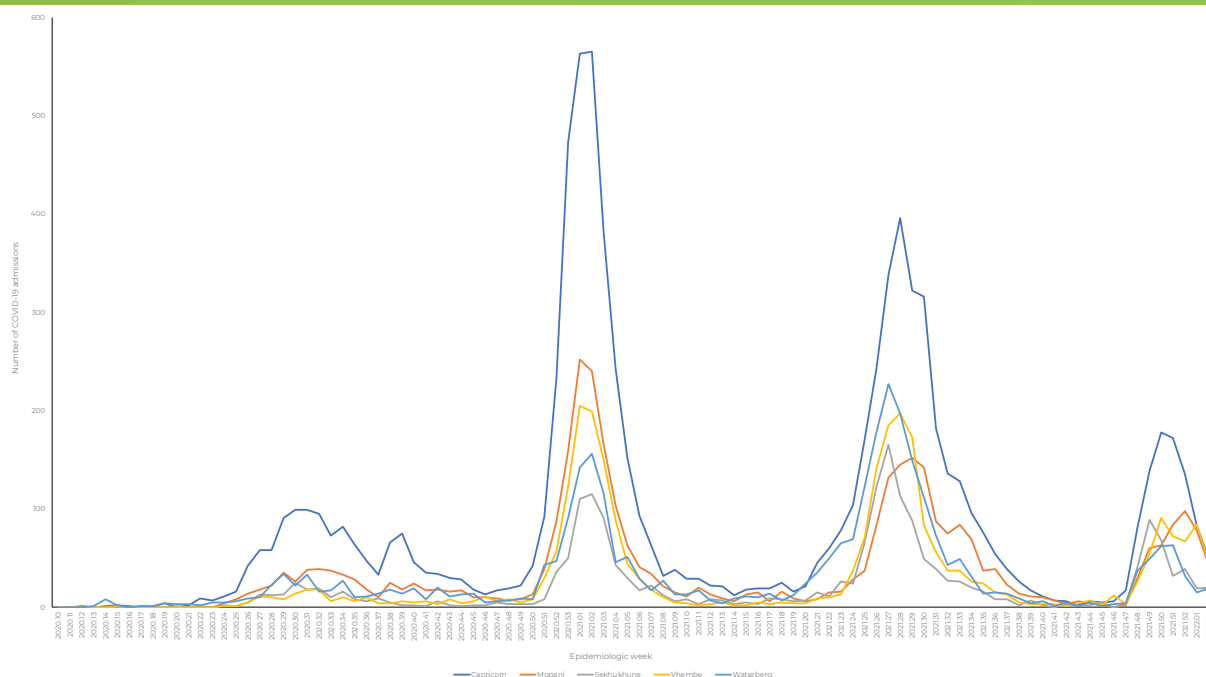
**Figure 19:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-15 January 2022, N=19,632



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

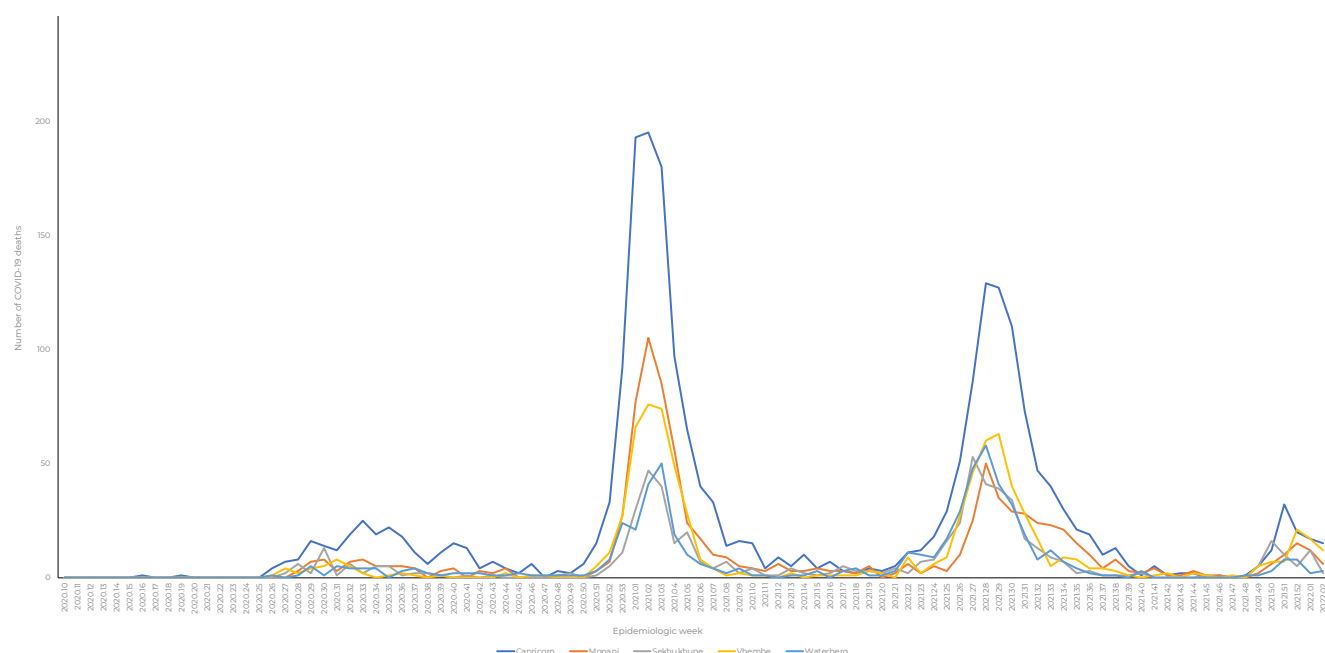


**Figure 20:** Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-15 January 2022, N=19,632

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 2020-15 January 2022, N=5,169

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 9).

**Table 8:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 18 December 2021-15 January 2022.

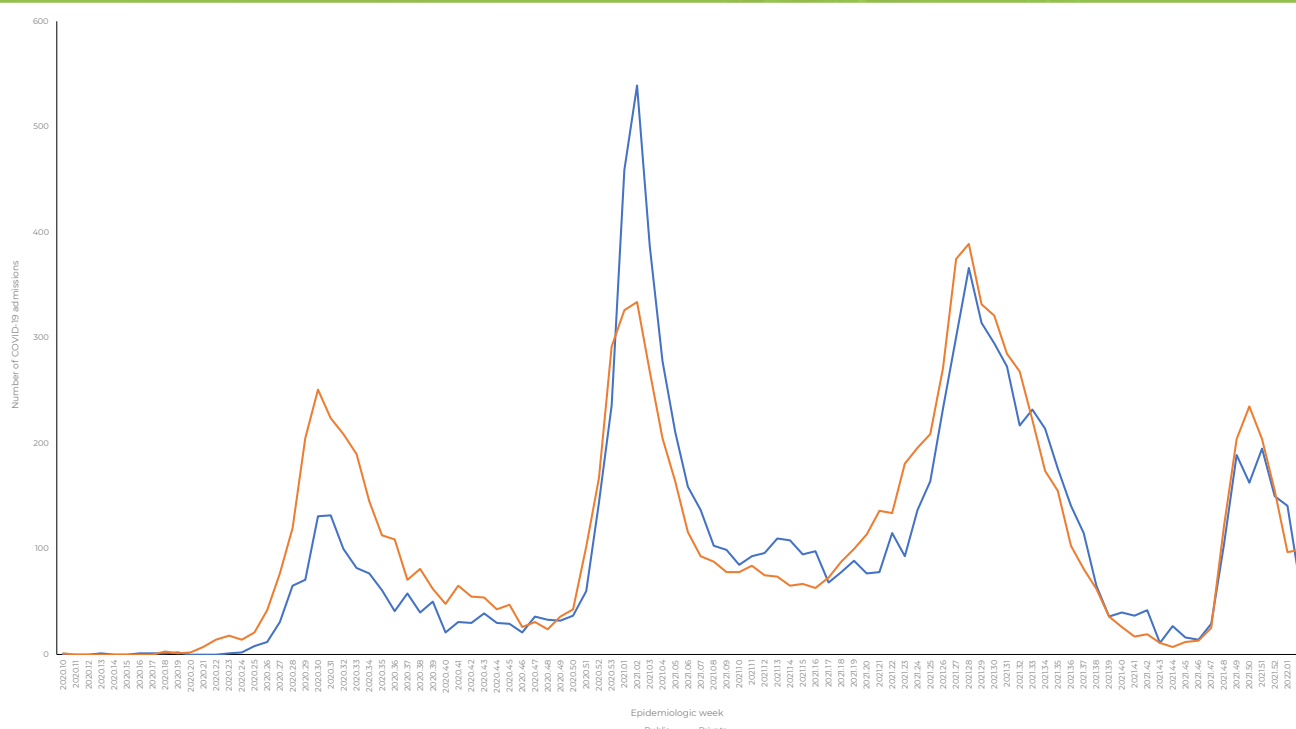
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Capricorn	21.93	9.43	-57.00	3.71	2.29	-38.46
Mopani	13.00	8.64	-33.52	1.79	1.29	-28.00
Sekhukhune	5.07	2.79	-45.07	1.07	1.00	-6.67
Vhembe	9.93	9.29	-6.47	2.00	2.07	3.57
Waterberg	6.79	2.43	-64.21	1.14	0.36	-68.75

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

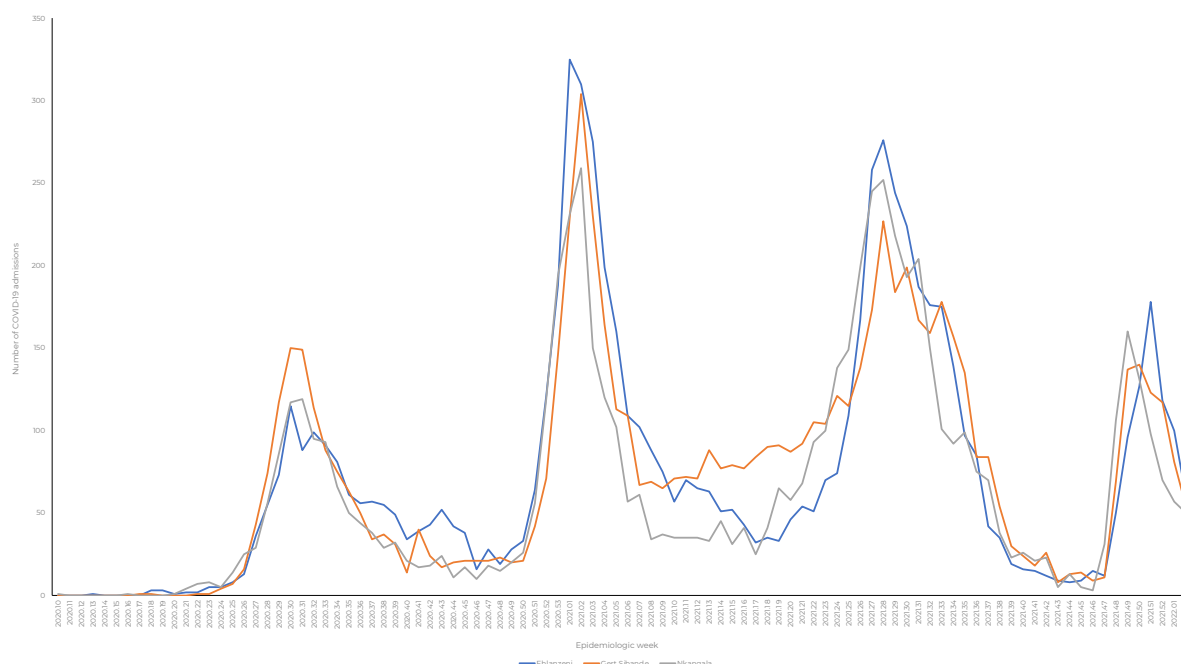


**Figure 22:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-15 January 2022, N=20,632

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

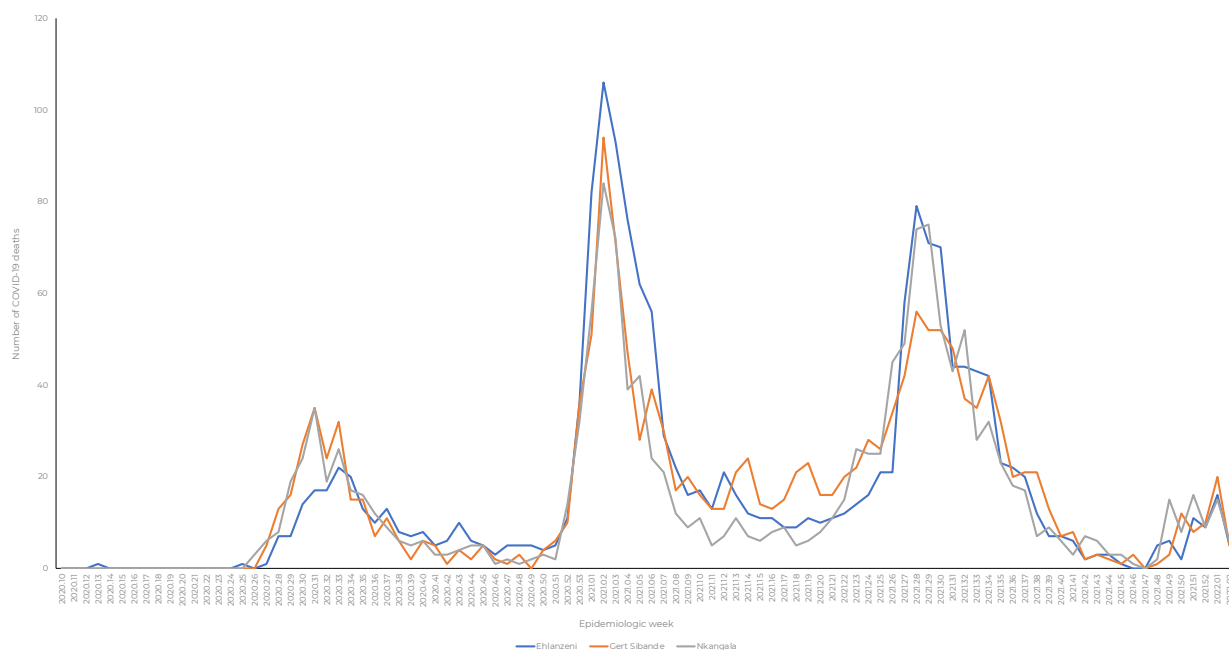


**Figure 23:** Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-15 January 2022, N=20,632

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 2020-15 January 2022, N=4,698

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 10).

**Table 10:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 18 December 2021-15 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	21.14	11.36	-46.28	1.43	1.50	5.00
Gert Sibande	17.14	9.64	-43.75	1.29	1.79	38.89
Nkangala	12.00	7.64	-36.31	1.79	1.50	-16.00

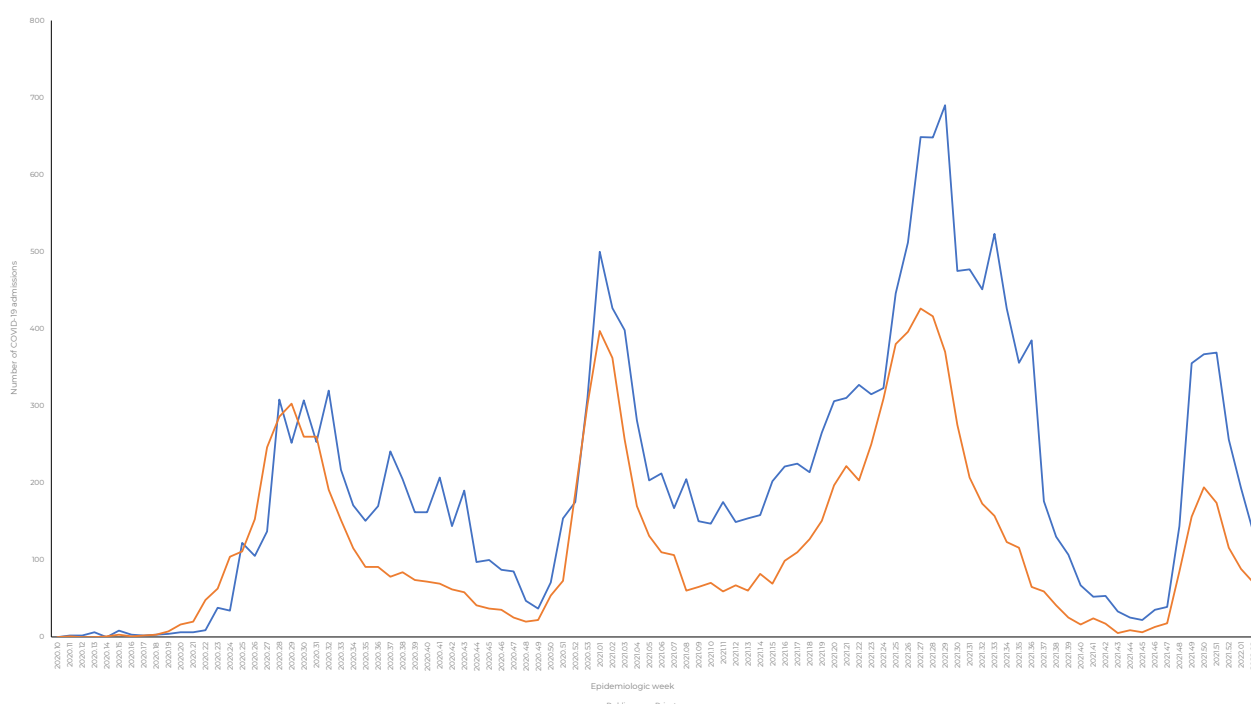


# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

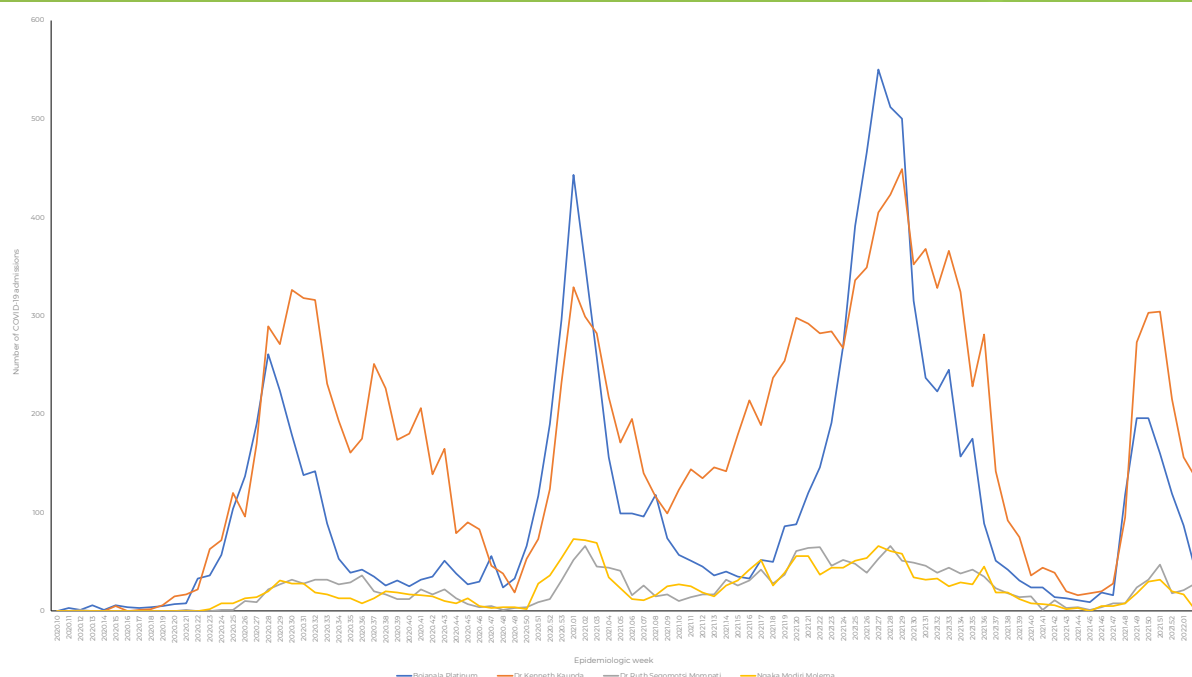


**Figure 25:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-15 January 2022, N=31,495

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

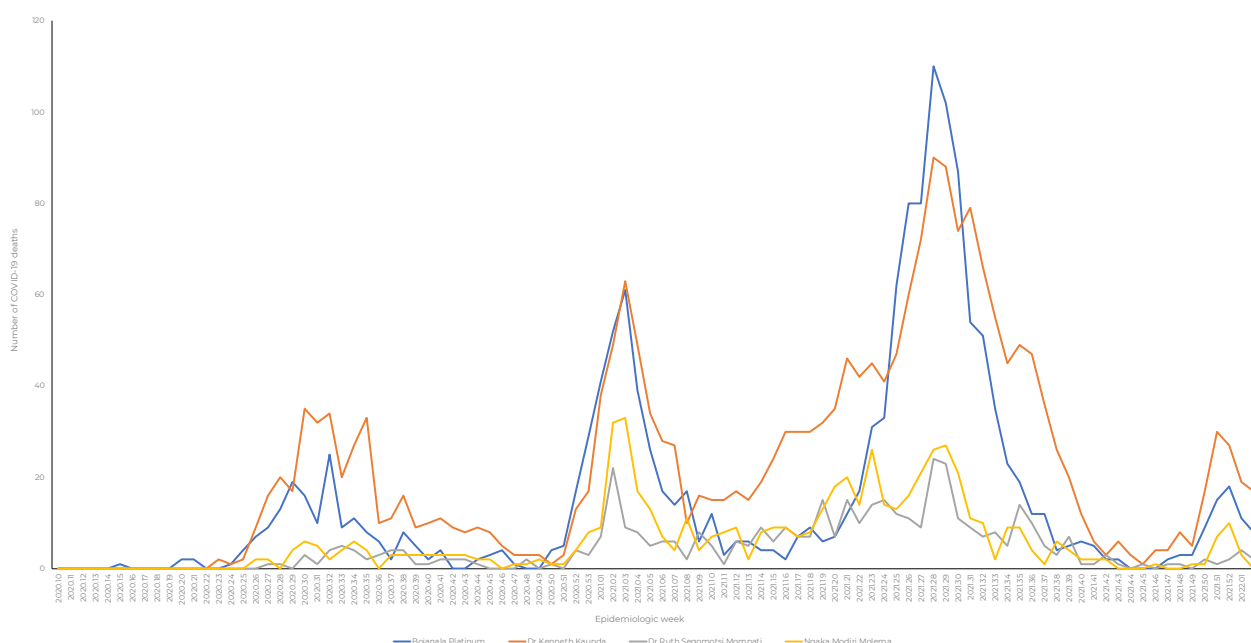


**Figure 26.** Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-15 January 2022, N=31,495

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 2020-15 January 2022, N=4,666

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 11).

**Table 11:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 18 December 2021-15 January 2022.

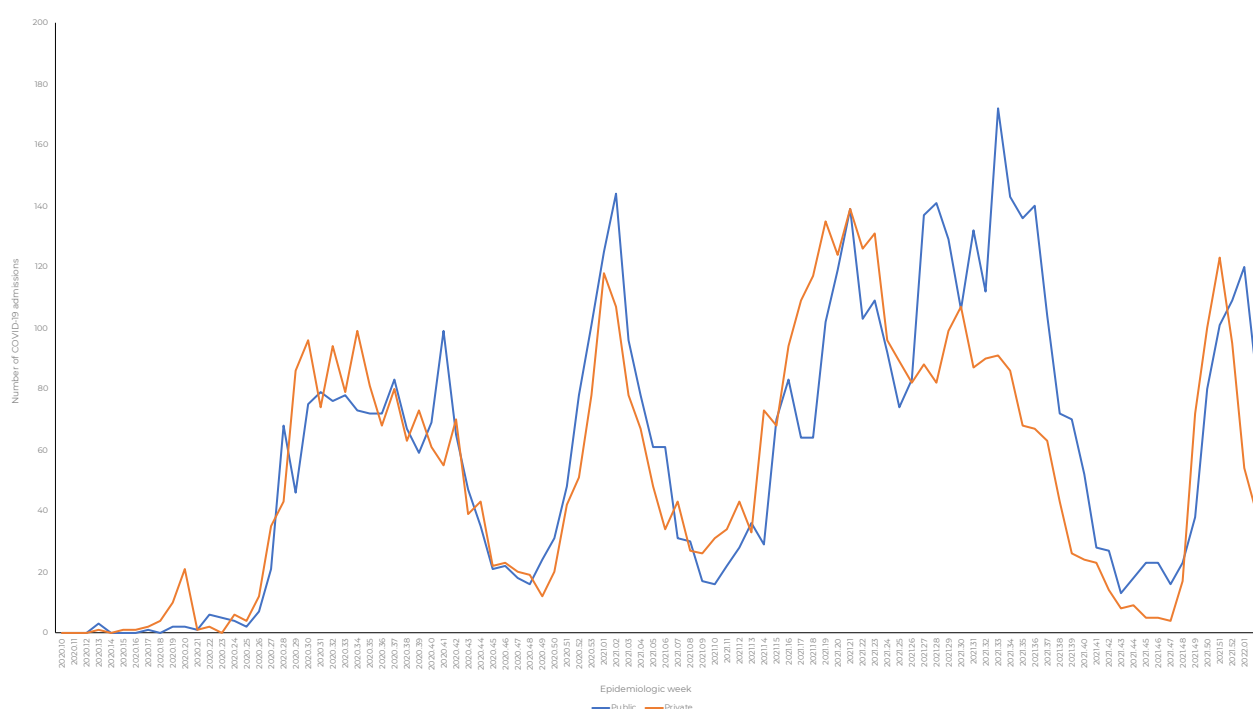
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum	19.93	9.21	-53.76	2.36	1.36	-42.42
Dr Kenneth Kaunda	37.07	20.86	-43.74	4.07	2.57	-36.84
Dr Ruth Segomotsi Mompoti	4.64	3.50	-24.62	0.21	0.43	100.00
Ngaka Modiri Molema	3.71	1.29	-65.38	1.21	0.21	-82.35

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

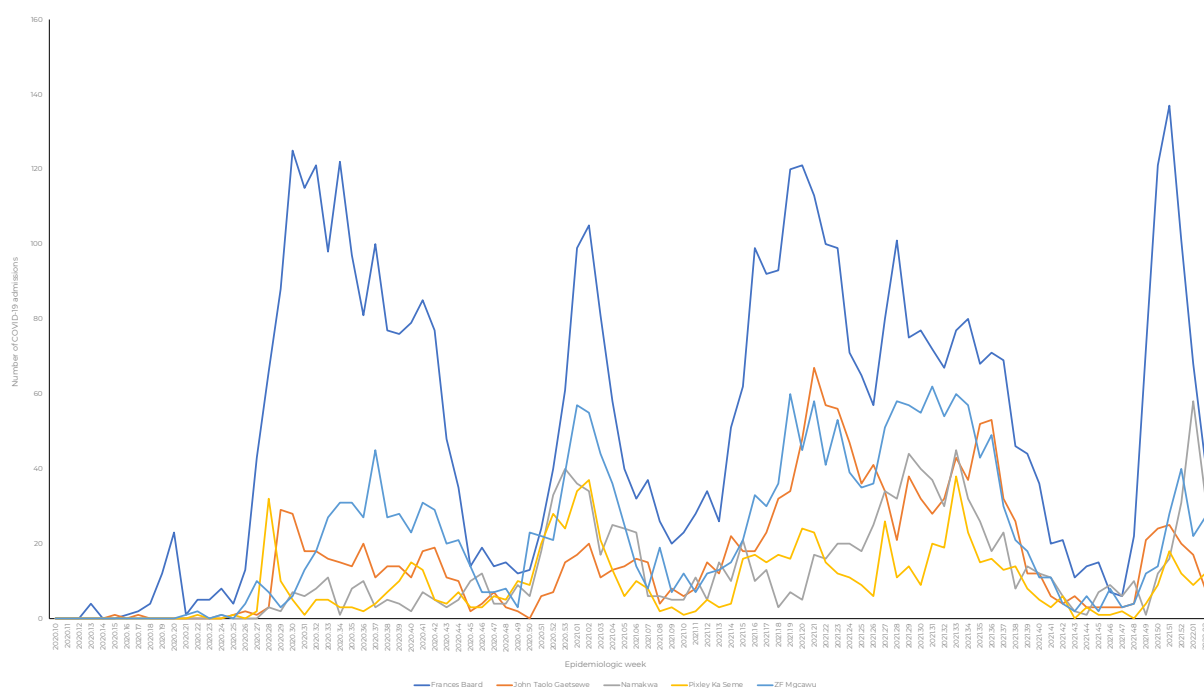


**Figure 28:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-15 January 2022, N=11,052

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.



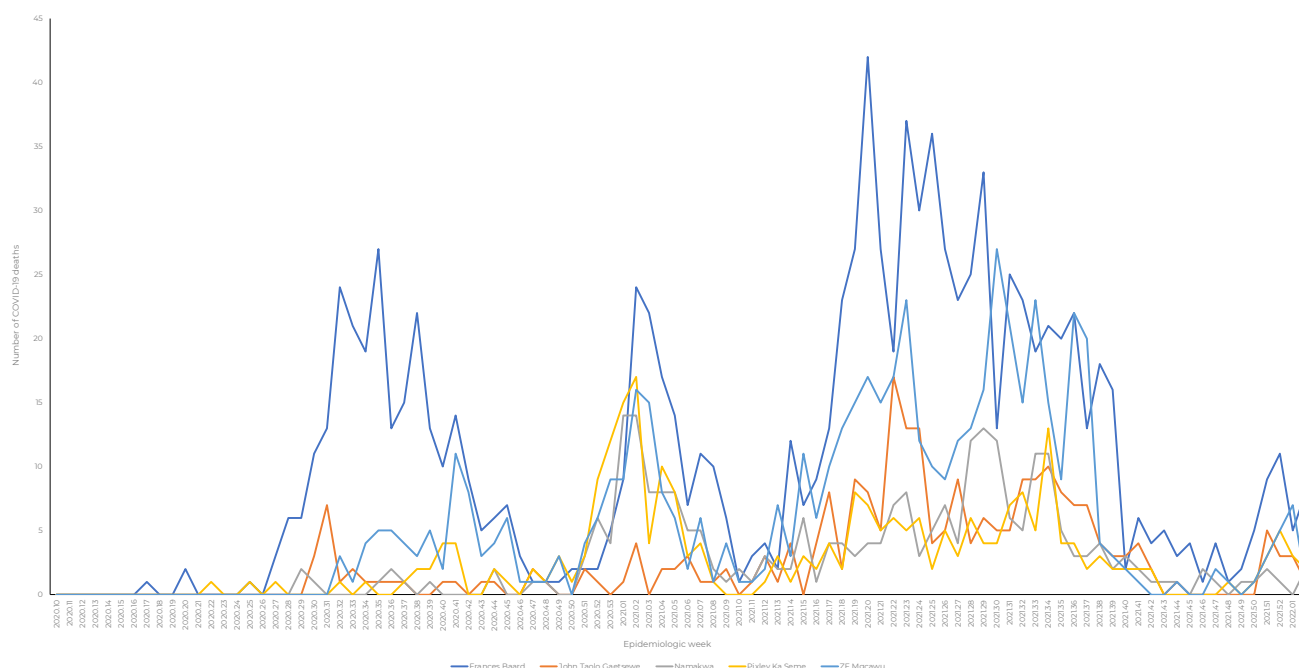
**Figure 29:** Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-15 January 2022, N=11,052



# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 2020-15 January 2022, N=2,370

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 in Namakwa (Table 12).

**Table 12:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 18 December 2021-15 January 2022.

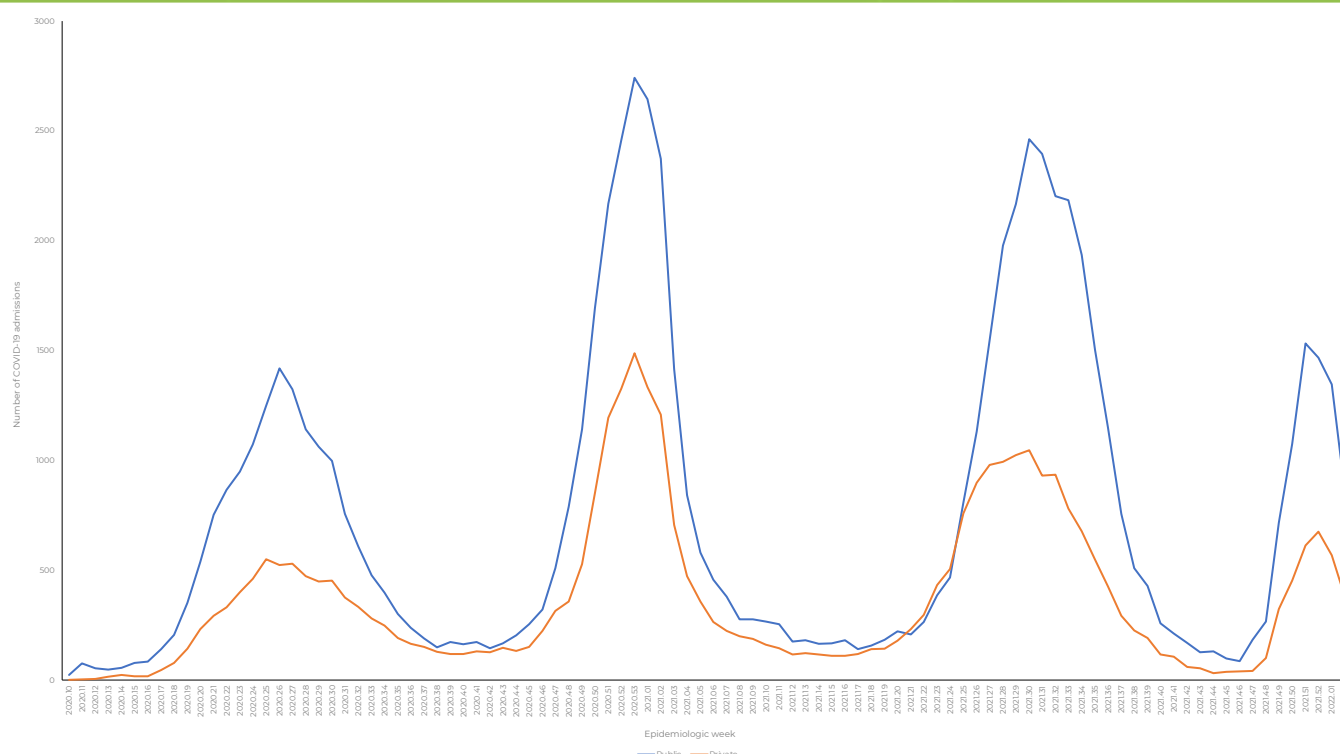
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Frances Baard	17.00	7.86	-53.78	1.43	0.93	-35.00
John Taolo Gaetsewe	3.21	1.79	-44.44	0.57	0.29	-50.00
Namakwa	3.36	6.43	91.49	0.21	0.14	-33.33
Pixley Ka Seme	2.14	1.50	-30.00	0.57	0.36	-37.50
ZF Mgcawu	4.86	3.50	-27.94	0.57	0.57	0.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 in the past two weeks (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.

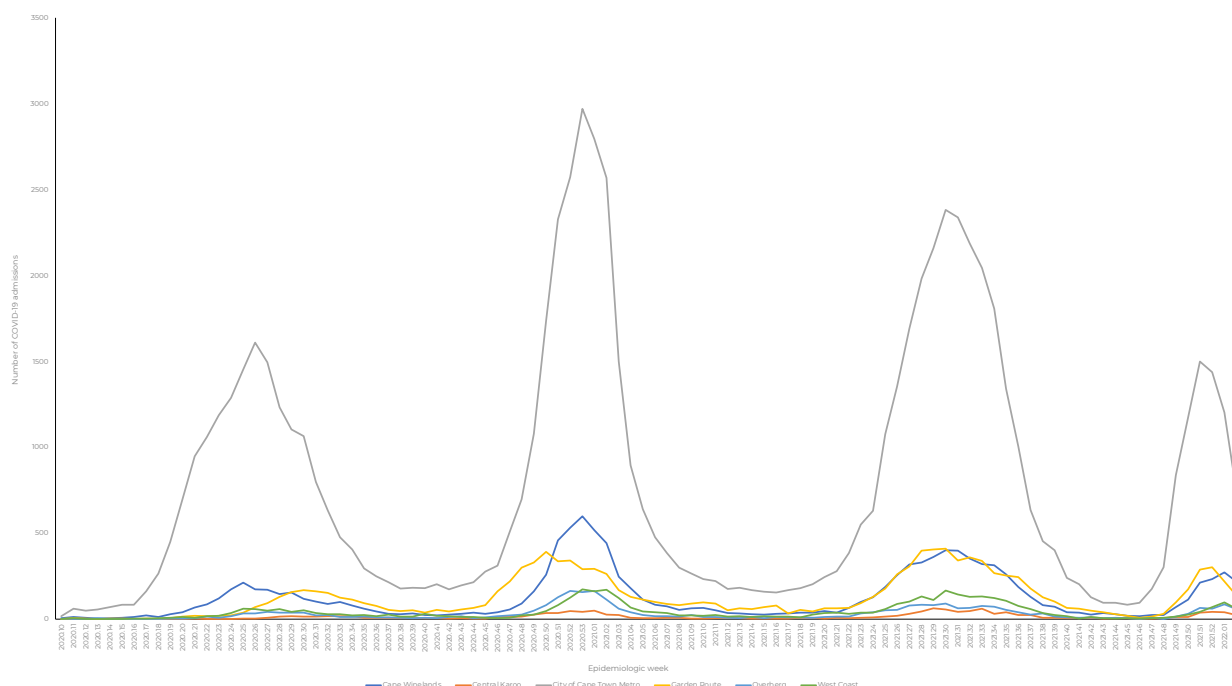


**Figure 31:** Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-15 January 2022, N=109,204

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

There has been an increase in admissions in all districts since week 47 and decreased admissions in the past two weeks (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.

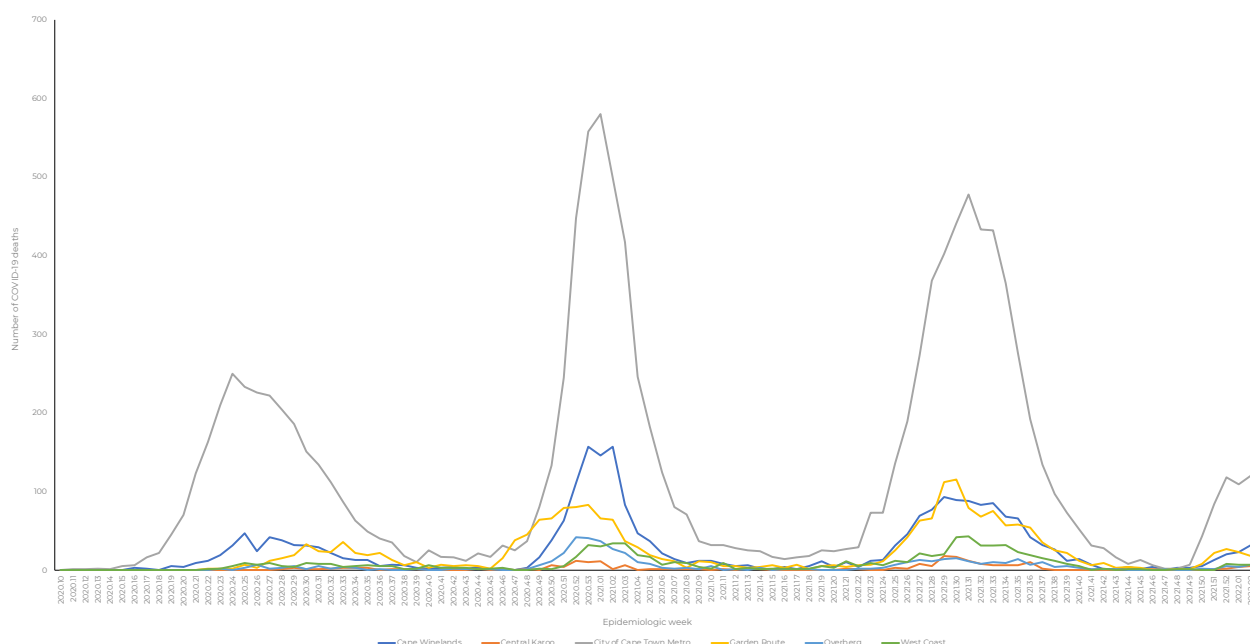


**Figure 32:** Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-15 January 2022, N=109,204

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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. Weekly deaths continue to increase in City of Cape Town Metro and Cape Winelands.



**Figure 33:** Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-15 January 2022, N=18,033

There has been a decrease in average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in Cape Winelands, Overberg and West Coast (Table 13).

**Table 13:** Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 18 December 2021-15 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	31.71	35.00	10.36	2.36	3.93	66.67
Central Karoo	5.64	4.50	-20.25	0.21	0.64	200.00
City of Cape Town Metro	209.86	139.14	-33.70	14.43	16.36	13.37
Garden Route	42.07	25.43	-39.56	3.50	2.93	-16.33
Overberg	8.86	10.14	14.52	0.43	0.79	83.33
West Coast	7.93	11.14	40.54	0.57	1.00	75.00

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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 2 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 2 2022

## APPENDIX

**Table 14:** Percentage incidence change in hospital admissions over 14 days, by district, South Africa, 25 December 2021-15 January 2022.

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	2610	316.55	31	3.76	-40.38
	Amathole	3224	411.98	30	3.83	-53.85
	Buffalo City Metro	10168	1284.66	93	11.75	-50.00
	Chris Hani	5032	706.19	35	4.91	-60.23
	Joe Gqabi	1146	334.19	12	3.50	-40.00
	Nelson Mandela Bay Metro	15891	1317.23	123	10.20	-45.58
	O R Tambo	4819	314.23	27	1.76	-55.74
	Sarah Baartman	3253	674.10	42	8.70	-37.31
Free State	Fezile Dabi	3478	679.89	32	6.26	-39.62
	Lejweleputswa	6098	933.58	65	9.95	-22.62
	Mangaung Metro	14057	1603.98	157	17.91	-42.28
	Thabo Mofutsanyana	5388	704.97	58	7.59	-20.55
	Xhariep	695	547.06	4	3.15	-69.23
Gauteng	City of Johannesburg Metro	50482	839.52	265	4.41	-38.66
	City of Tshwane Metro	39221	1026.63	384	10.05	-16.34
	Ekurhuleni Metro	30838	762.11	188	4.65	-26.56
	Sedibeng	8860	909.64	49	5.03	-16.95
	West Rand	12482	1305.08	64	6.69	-50.77
KwaZulu-Natal	Amajuba	4461	786.77	20	3.53	-44.44
	eThekweni Metro	36405	907.95	325	8.11	-48.82
	Harry Gwala	2537	501.25	43	8.50	-53.26
	iLembe	2932	421.44	22	3.16	-50.00
	King Cetshwayo	8731	915.08	104	10.90	-39.53
	Ugu	5380	668.78	47	5.84	-64.93
	uMgungundlovu	10767	944.54	160	14.04	-27.60

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	1430	207.85	24	3.49	-22.58
	Umzinyathi	2028	359.52	38	6.74	-39.68
	UThukela	3011	429.91	35	5.00	-56.79
	Zululand	2260	255.60	50	5.65	11.11
Limpopo	Capricorn	8240	620.98	50	3.77	-45.05
	Mopani	3574	297.17	46	3.82	-42.50
	Sekhukhune	1963	161.35	20	1.64	5.26
	Vhembe	2813	196.67	47	3.29	-46.59
	Waterberg	3090	411.92	20	2.67	11.11
Mpumalanga	Ehlanzeni	7208	394.23	63	3.45	-40.57
	Gert Sibande	7153	564.17	61	4.81	-28.24
	Nkangala	6288	381.71	53	3.22	-10.17
North West	Bojanala Platinum	10913	560.17	43	2.21	-52.75
	Dr Kenneth Kaunda	16312	2030.62	148	18.42	-13.45
	Dr Ruth Segomotsi Mompoti	2193	470.08	29	6.22	38.10
	Ngaka Modiri Molema	2090	230.97	1	0.11	-94.12
Northern Cape	Frances Baard	5204	1251.05	45	10.82	-37.50
	John Taolo Gaetsewe	1579	571.36	9	3.26	-47.06
	Namakwa	1226	1047.94	35	29.92	-46.97
	Pixley Ka Seme	885	420.60	12	5.70	20.00
	ZF Mgcawu	2175	767.70	27	9.53	17.39
Western Cape	Cape Winelands	12449	1302.45	305	31.91	-25.43
	Central Karoo	1308	1725.78	35	46.18	-30.00
	City of Cape Town Metro	77067	1647.12	1190	25.43	-38.21
	Garden Route	12449	1981.55	177	28.17	-42.35
	Overberg	2984	976.67	71	23.24	-26.80
	West Coast	4084	869.87	86	18.32	-36.30

# COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2022

## APPENDIX

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

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	5112	6350	33	11495	166	177	2	345
5-9	1443	1878	8	3329	26	27	0	53
10-14	2152	2107	9	4268	64	56	0	120
15-19	6199	3351	5	9555	138	123	0	261
20-24	9842	4887	6	14735	308	239	1	548
25-29	15638	7067	13	22718	694	462	1	1157
30-34	20116	11322	9	31447	1159	1000	1	2160
35-39	21044	15055	20	36119	1715	1609	4	3328
40-44	18910	16796	14	35720	2130	2207	0	4337
45-49	21115	20799	12	41926	3077	3258	1	6336
50-54	24707	23110	11	47828	4254	4381	2	8637
55-59	27591	24992	12	52595	6040	6040	4	12084
60-64	24398	22375	20	46793	6507	6683	6	13196
65-69	21064	18763	16	39843	6732	6290	6	13028
70-74	17842	15709	18	33569	5943	5779	4	11726
75-79	13331	10957	10	24298	4683	4365	3	9051
80-84	10167	7056	9	17232	3843	2960	4	6807
85-89	5469	3384	2	8855	2131	1545	0	3676
90-94	2380	1169	1	3550	1034	588	0	1622
>=95	752	357	2	1111	339	151	0	490
Unknown	1170	1183	45	2398	69	113	0	182
<b>Total</b>	<b>270442</b>	<b>218667</b>	<b>275</b>	<b>489384</b>	<b>51052</b>	<b>48053</b>	<b>39</b>	<b>99144</b>