

COVID-19 HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 5 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 5 February 2022.

HIGHLIGHTS

- As of 5 February 2022, 499,535 COVID-19 admissions and 100,514 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 from week 45 and a decrease in admissions since the peak in week 50. The weekly admissions during the fourth wave were lower than the numbers of admissions at the peaks of the second and third waves in both private and public sectors. The number of admissions has decreased in all provinces in the last five weeks. However, districts with small increases in admissions in the past two weeks are Joe Gqabi (Eastern Cape), uMkhanyakude (KwaZulu-Natal), Sekhukhune (Limpopo) and John Taolo Gaetsewe (Northern Cape).
- In-hospital COVID-19 deaths increased in both public and private sectors in all provinces since week 48 until the peak in weekly deaths in week 1 (2022). The weekly deaths during the fourth wave have been lower than the numbers of deaths at the peaks of the prior three waves in both public and private sectors. The number of deaths has decreased in all provinces in the last four weeks.

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 5 February 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 2020-5 February 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
South Africa	407	259

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

RESULTS

Epidemiological and geographic trends in admissions

From 5 March 2020 to 5 February 2022, a total of 499,535 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 and peaked in week 51 (Figure 1). The weekly admissions during the fourth wave were lower than the numbers of admissions at the peak of the second and third waves in both sectors.

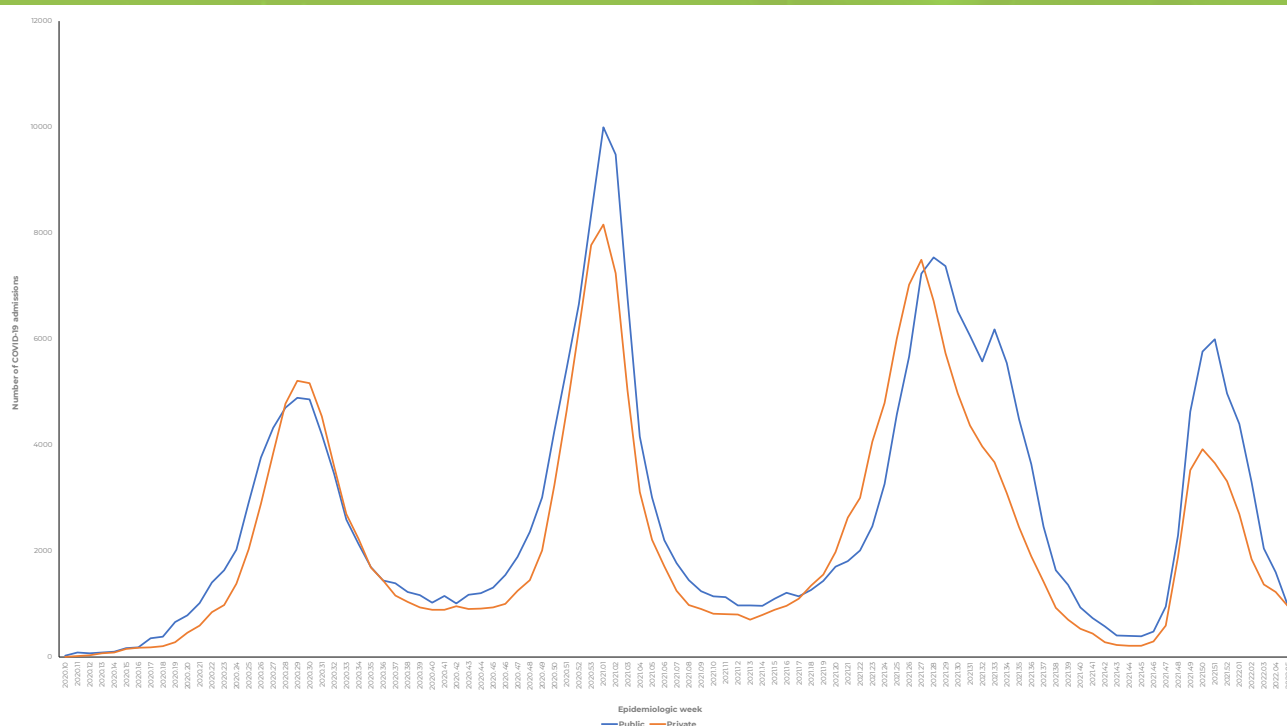


Figure 1. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-5 February 2022, N=499,535

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

The majority of admissions were recorded in four provinces, Gauteng 144,097 (29%), Western Cape 111,843 (22%), KwaZulu-Natal 81,761 (16%) and Eastern Cape 46,861 (9%) provinces. There has been a decrease in admissions in all provinces over the past five weeks (Figures 2a and 2b).

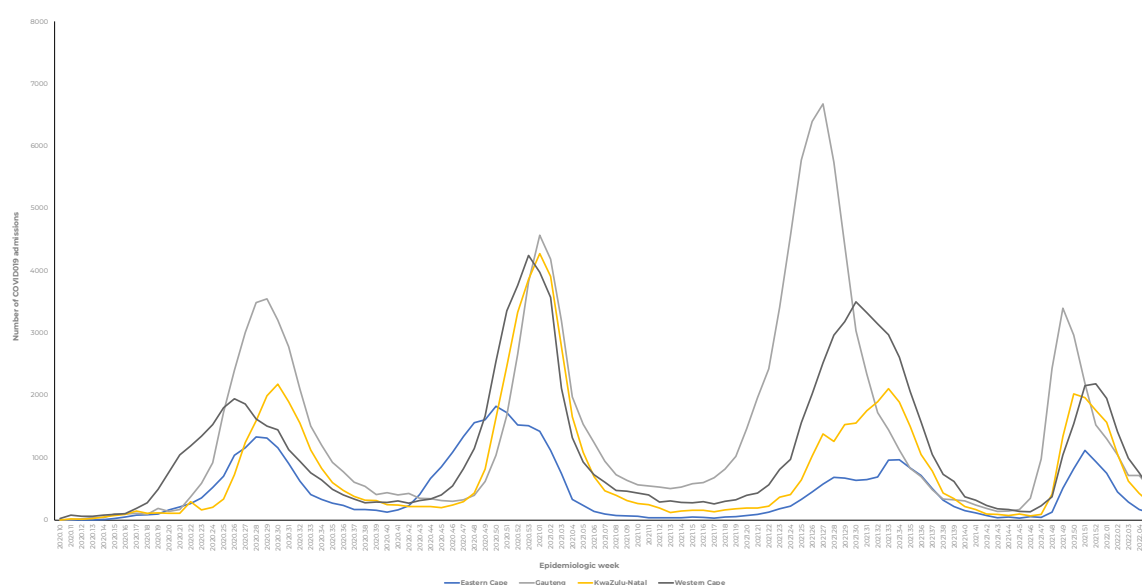


Figure 2a. Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-5 February 2022, N=499,535

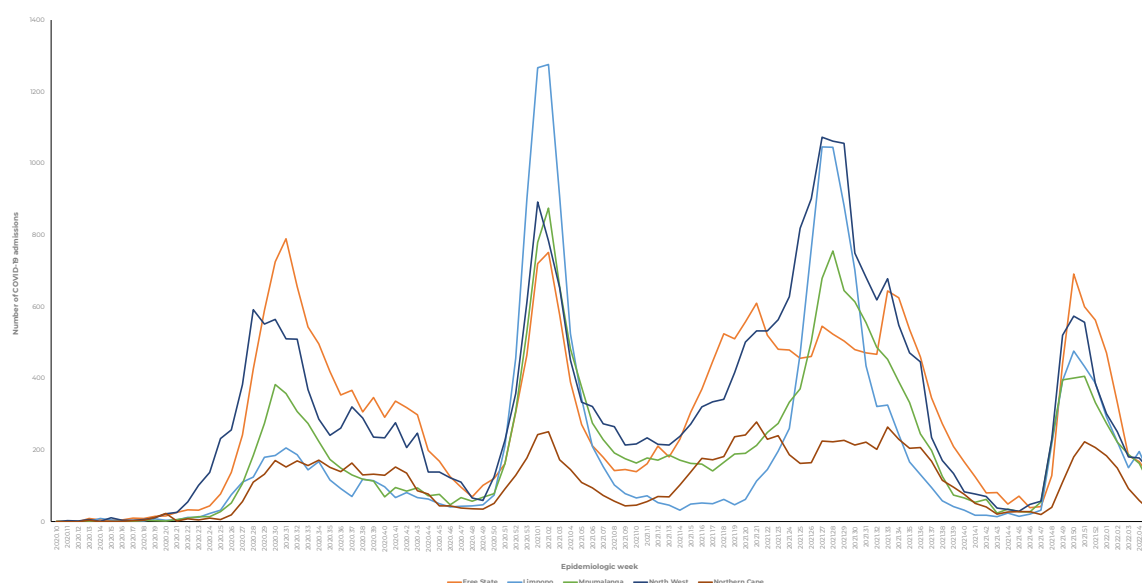


Figure 2b. Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-5 February 2022, N=499,535

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

The incidence risk of COVID-19 admissions increased with age and was highest amongst individuals aged 65 years and older (Figure 3). There was higher incidence of admissions in individuals aged <35 years in the fourth wave compared to previous waves. During the fourth wave, there were 9,102 admissions in <20 years, 15,092 in 20-34 years, 13,132 in 35-49 years, 11,299 in 50-64 years, and 14,747 in ≥65 years.

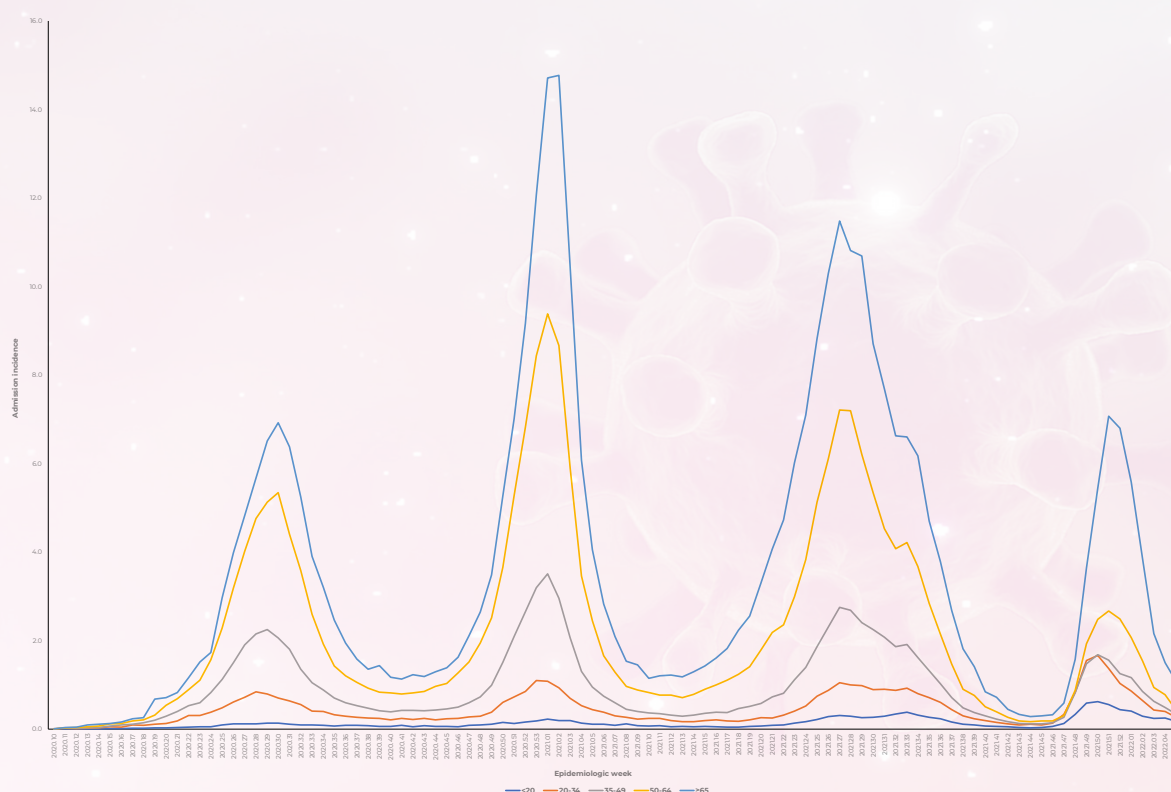


Figure 3. Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, South Africa, 5 March 2020-5 February 2022, N=499,535

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

A total of 100,514 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 was an increase in in-hospital COVID-19 deaths in both sectors since week 48, followed by a decrease since the peak in week 1 (2022) (Figure 4). The weekly deaths during the fourth wave were lower than the numbers of deaths at the peak of the prior three waves in both sectors.

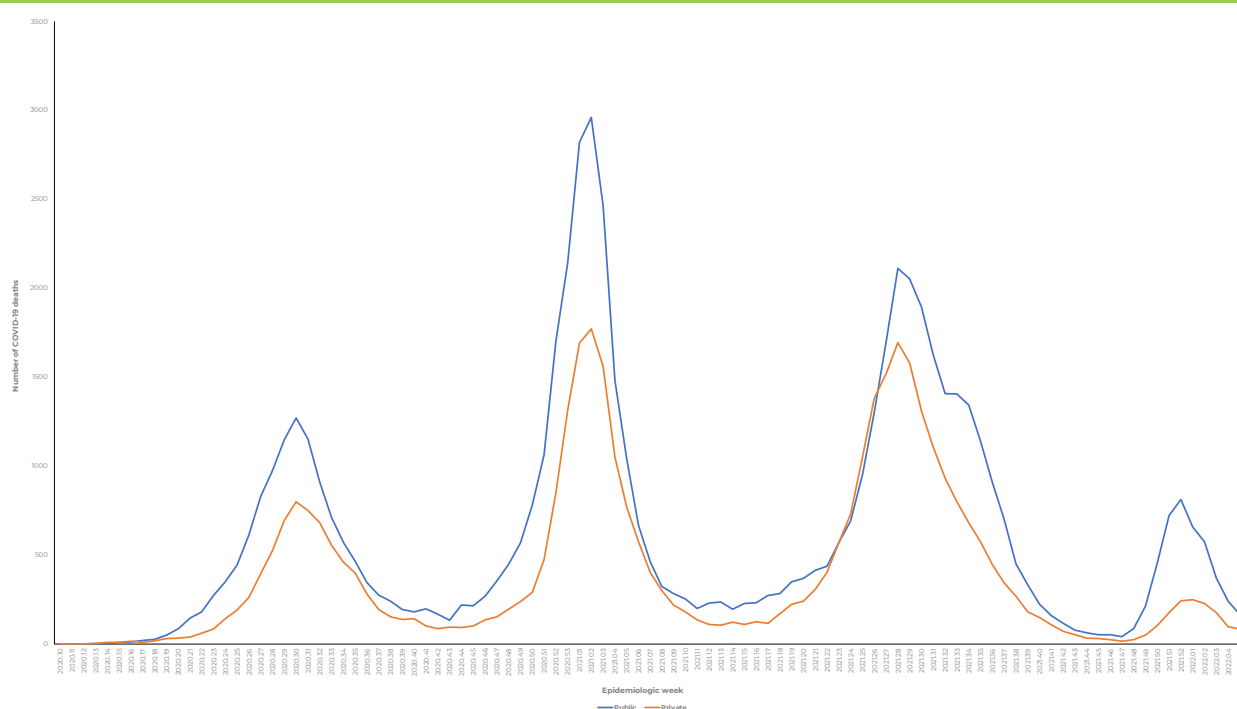


Figure 4. Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-5 February 2022, N=100,514

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Most deaths were reported in Gauteng 29,179 (29%), Western Cape 18,328 (18%), KwaZulu-Natal 16,935 (17%), and Eastern Cape 13,020 (13%). There was an increase in deaths in all provinces until the peak in week 1 (2022) (Figures 5a and 5b). The weekly deaths during the fourth wave were 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 four weeks.

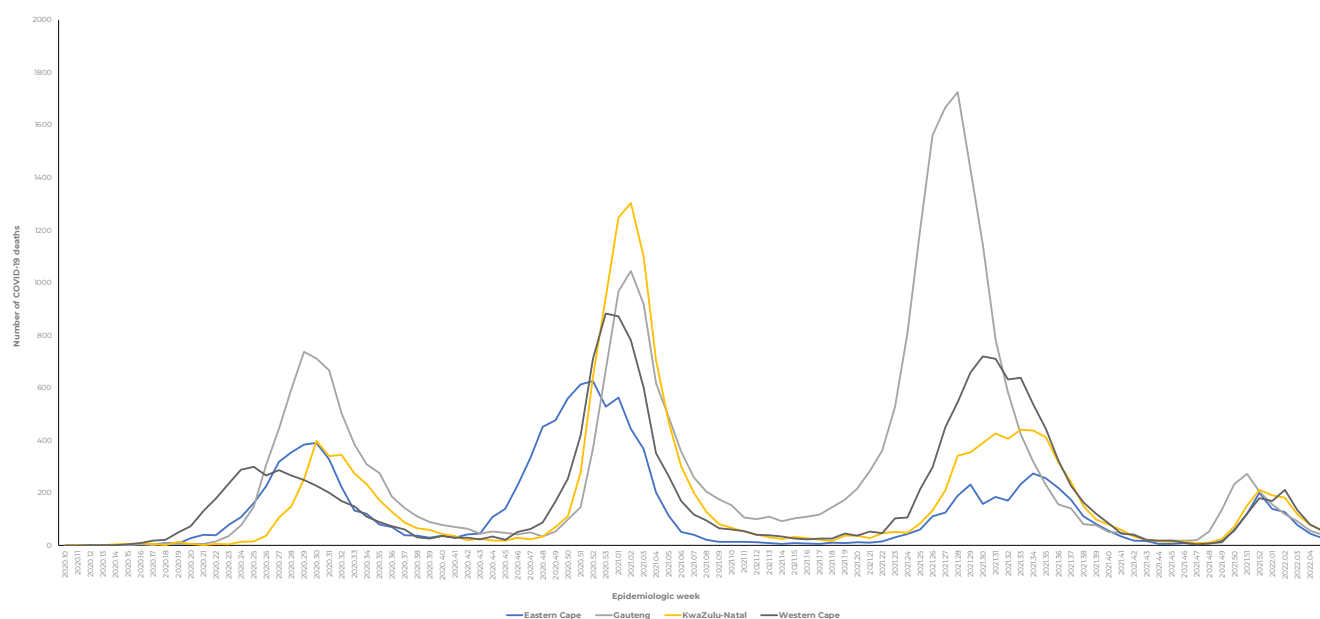


Figure 5a. Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-5 February 2022, N=100,514

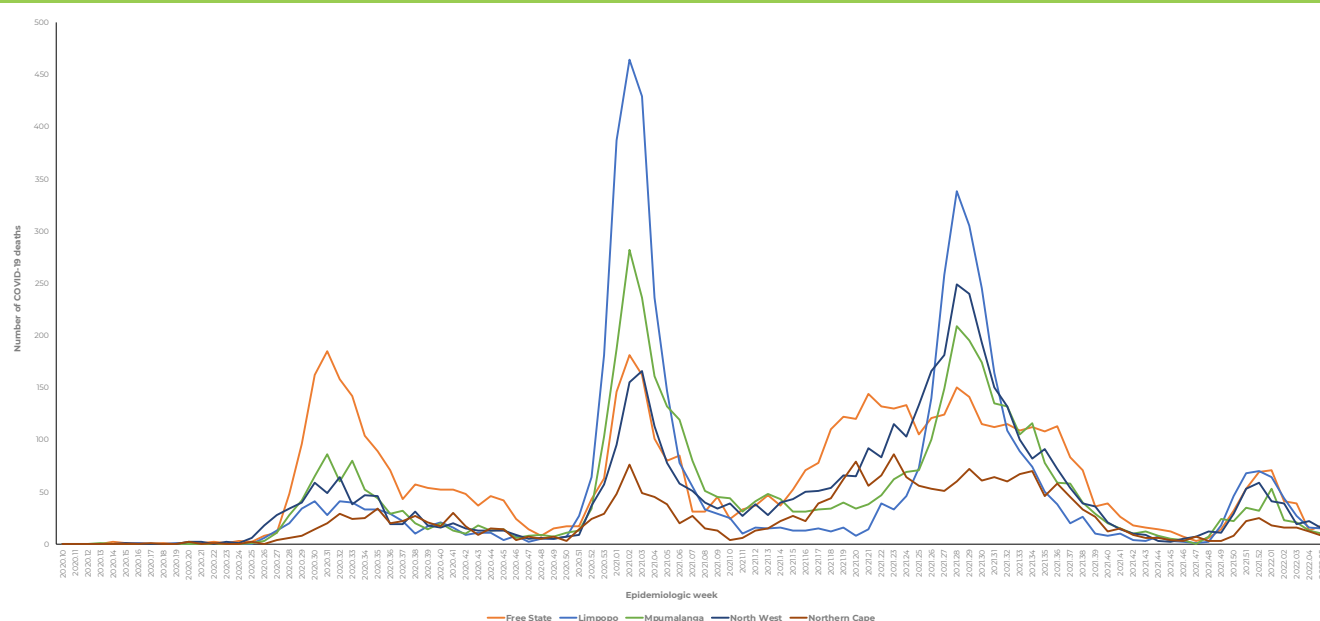


Figure 5b. Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-5 February 2022, N=100,514

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 153 deaths in <20 years, 534 in 20-349 years, 986 in 35-49 years, 1,352 in 50-64 years and 2,908 in ≥65 years.

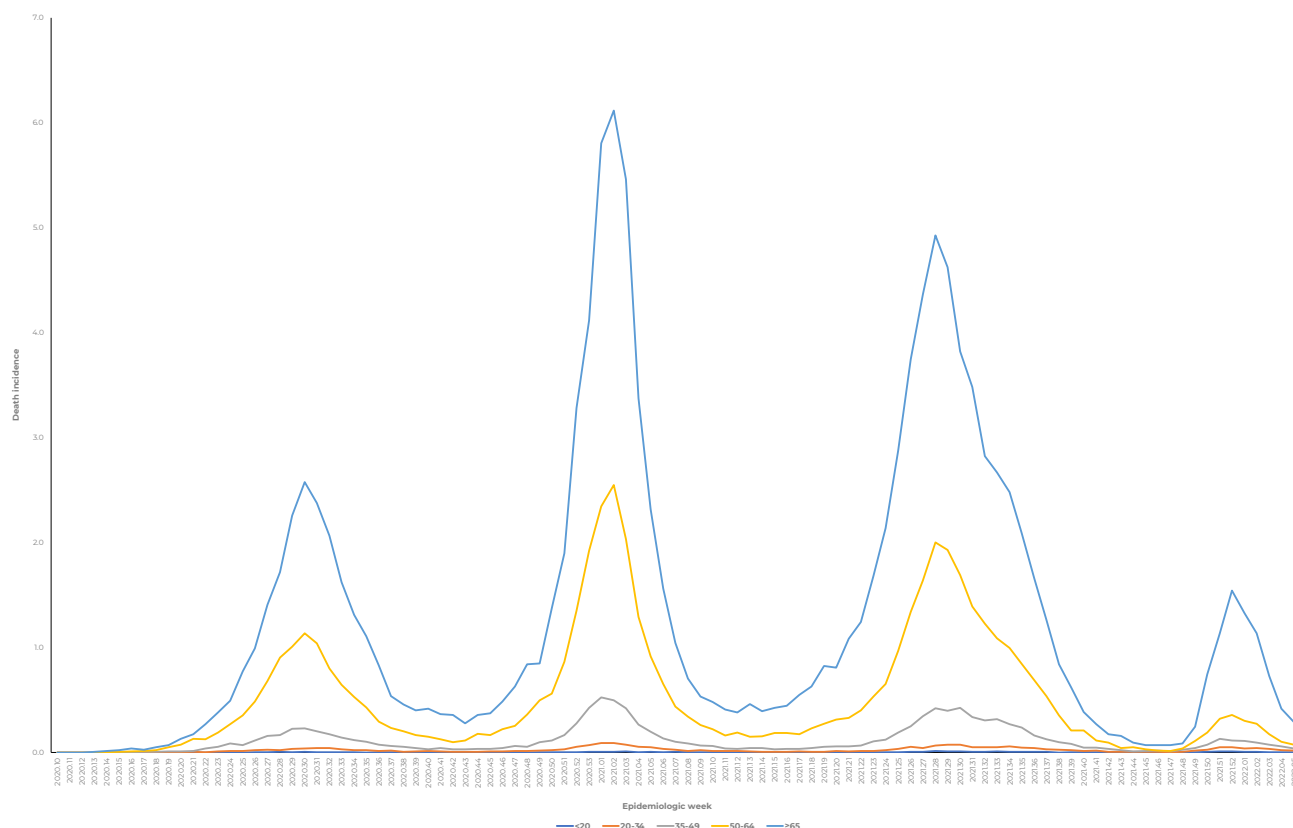


Figure 6. Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, by age group and epidemiologic week of death, South Africa, 5 March 2020-5 February 2022, N=100,514

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 2020-5 February 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	46861	701.9	13020	195.0
Free State	2932441	30211	1030.2	5958	203.2
Gauteng	15810388	144 097	911.4	29179	184.6
KwaZulu-Natal	11513575	81761	710.1	16932	147.1
Limpopo	5926724	20206	340.9	5235	88.3
Mpumalanga	4743584	21226	447.5	4730	99.7
North West	4122854	32 056	777.5	4722	114.5
Northern Cape	1303047	11 274	865.2	2406	184.6
Western Cape	7113776	111 843	1572.2	18326	257.6
South Africa	60142978	499 535	830.6	100 508	167.1

*StatsSA mid-year population estimates 2020

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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, 8 January-5 February 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	52.71	20.29	-61.52	14.64	5.21	-64.39
Free State	36.86	20.79	-43.60	5.71	2.21	-61.25
Gauteng	125.50	87.43	-30.34	15.07	7.00	-53.55
KwaZulu-Natal	119.64	50.00	-58.21	21.50	9.64	-55.15
Limpopo	26.71	22.93	-14.17	5.07	2.21	-56.34
Mpumalanga	29.29	18.93	-35.37	3.14	1.64	-47.73
North West	30.86	22.86	-25.93	4.14	2.64	-36.21
Northern Cape	17.29	6.43	-62.81	2.29	1.43	-37.50
Western Cape	171.93	89.71	-47.82	24.64	9.71	-60.58

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

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 an increase in the average daily COVID-19 deaths in Free State (Table 4).

Table 3. Previous 7 days and current 7 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 22 January-5 February 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	24.00	16.57	-30.95	6.43	4.00	-37.78
Free State	24.00	17.57	-26.79	1.86	2.57	38.46
Gauteng	102.29	72.57	-29.05	8.14	5.86	-28.07
KwaZulu-Natal	60.43	39.57	-34.52	11.14	8.14	-26.92
Limpopo	27.86	18.00	-35.38	2.29	2.14	-6.25
Mpumalanga	23.29	14.57	-37.42	1.86	1.43	-23.08
North West	25.43	20.29	-20.22	3.14	2.14	-31.82
Northern Cape	8.43	4.43	-47.46	1.71	1.14	-33.33
Western Cape	108.43	71.00	-34.52	11.43	8.00	-30.00

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

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 were decreased admissions since the peak in 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.

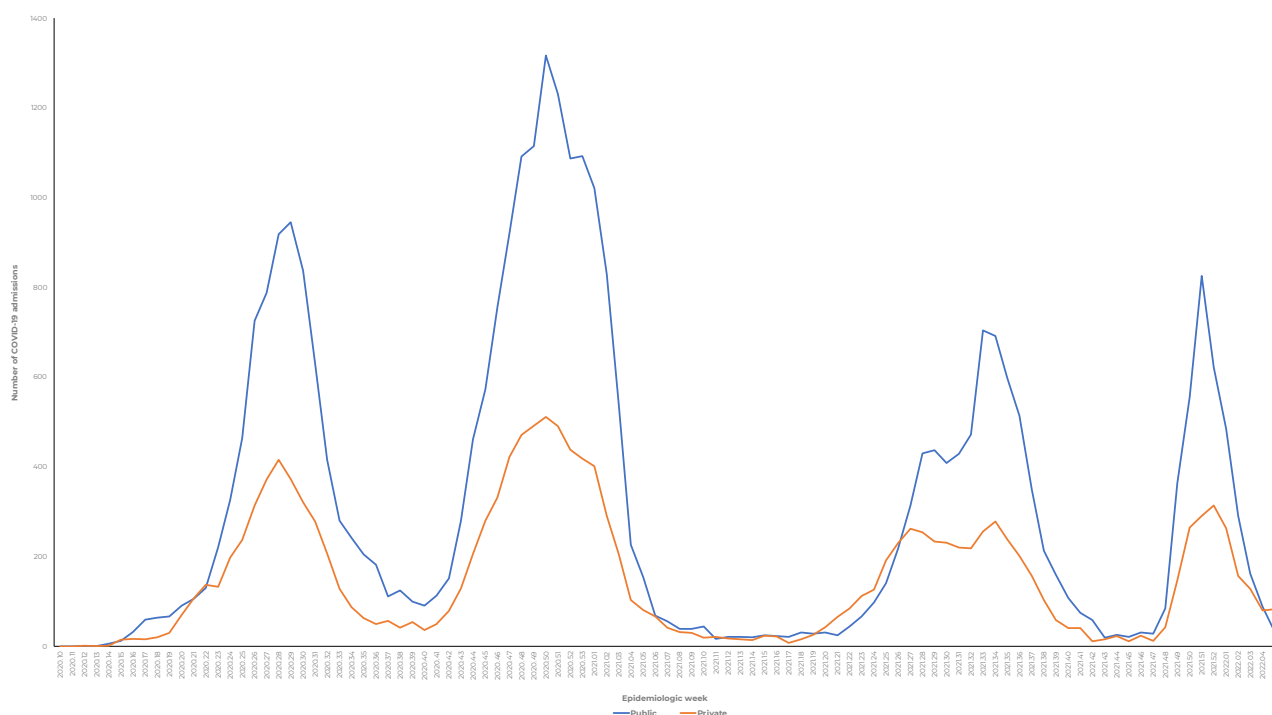


Figure 7: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-5 February 2022, N=46,861

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions in all districts since week 46, there were decreased admissions in all districts since the peak in 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.

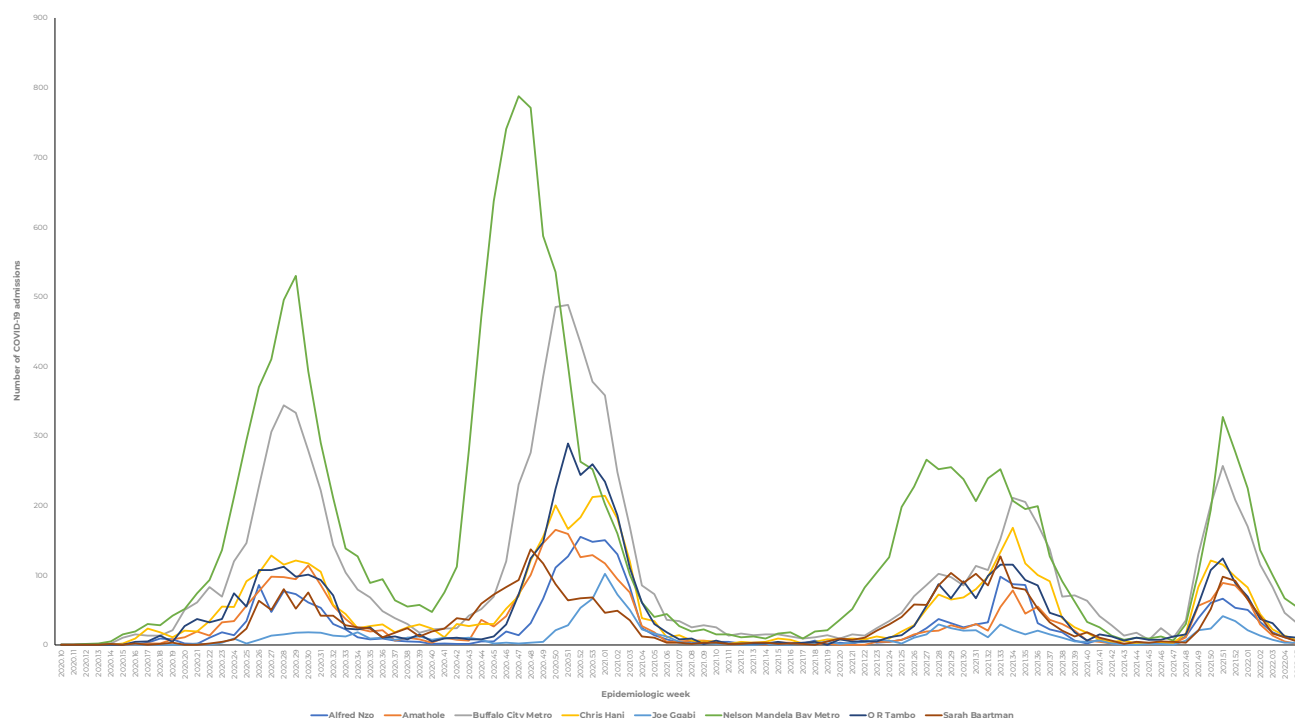


Figure 8. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-5 February 2022, N=46,861

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in weekly numbers of deaths in all districts since week 50, there were decreased deaths since the peak in week 1 (2022) (Figure 9). The weekly deaths in the fourth wave were lower than the numbers of deaths in the prior three waves in all districts.

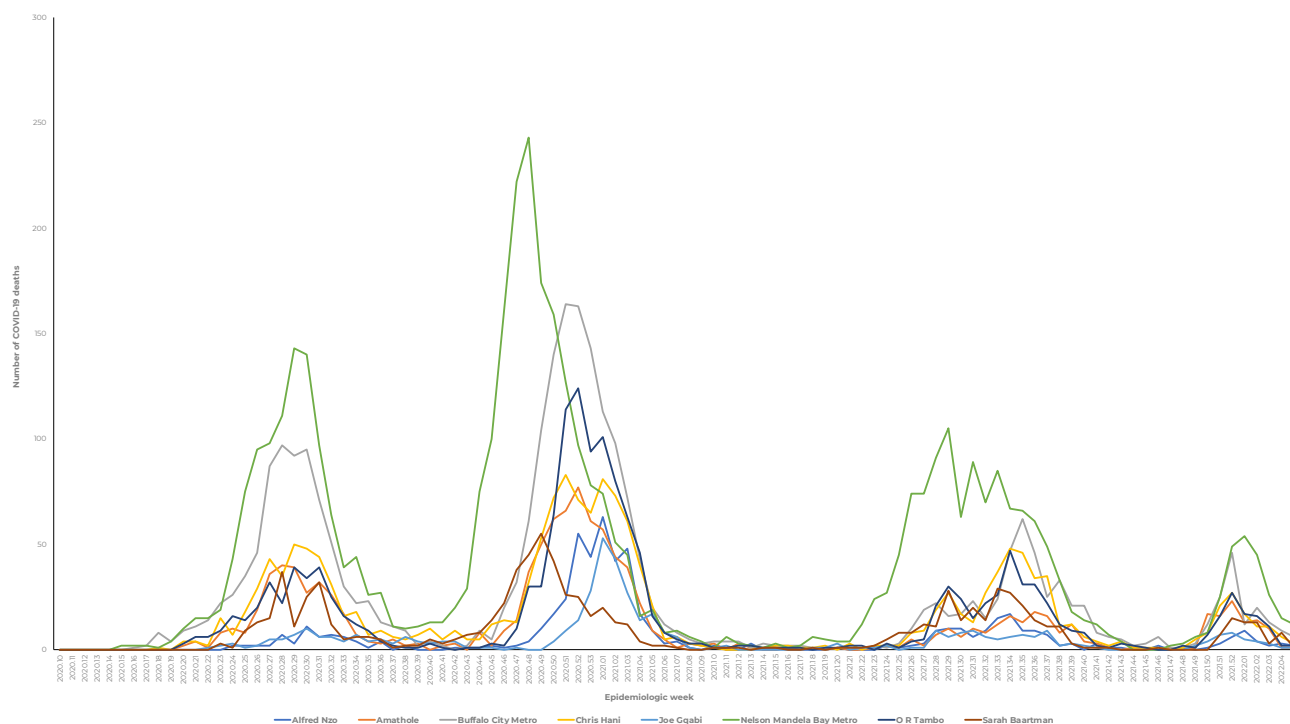


Figure 9. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-5 February 2022, N=13,020

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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, 8 January-5 February 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	3.64	1.21	-66.67	0.43	0.36	-16.67
Amathole	3.00	0.43	-85.71	1.64	0.14	-91.30
Buffalo City Metro	14.14	5.50	-61.11	2.36	1.07	-54.55
Chris Hani	4.71	1.36	-71.21	1.57	0.64	-59.09
Joe Gqabi	1.43	0.43	-70.00	0.50	0.14	-71.43
Nelson Mandela Bay	16.86	8.64	-48.73	5.07	1.93	-61.97
O R Tambo	4.86	1.57	-67.65	1.93	0.29	-85.19
Sarah Baartman	4.07	1.14	-71.93	1.14	0.64	-43.75

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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 were decreased admissions since the peak in 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.

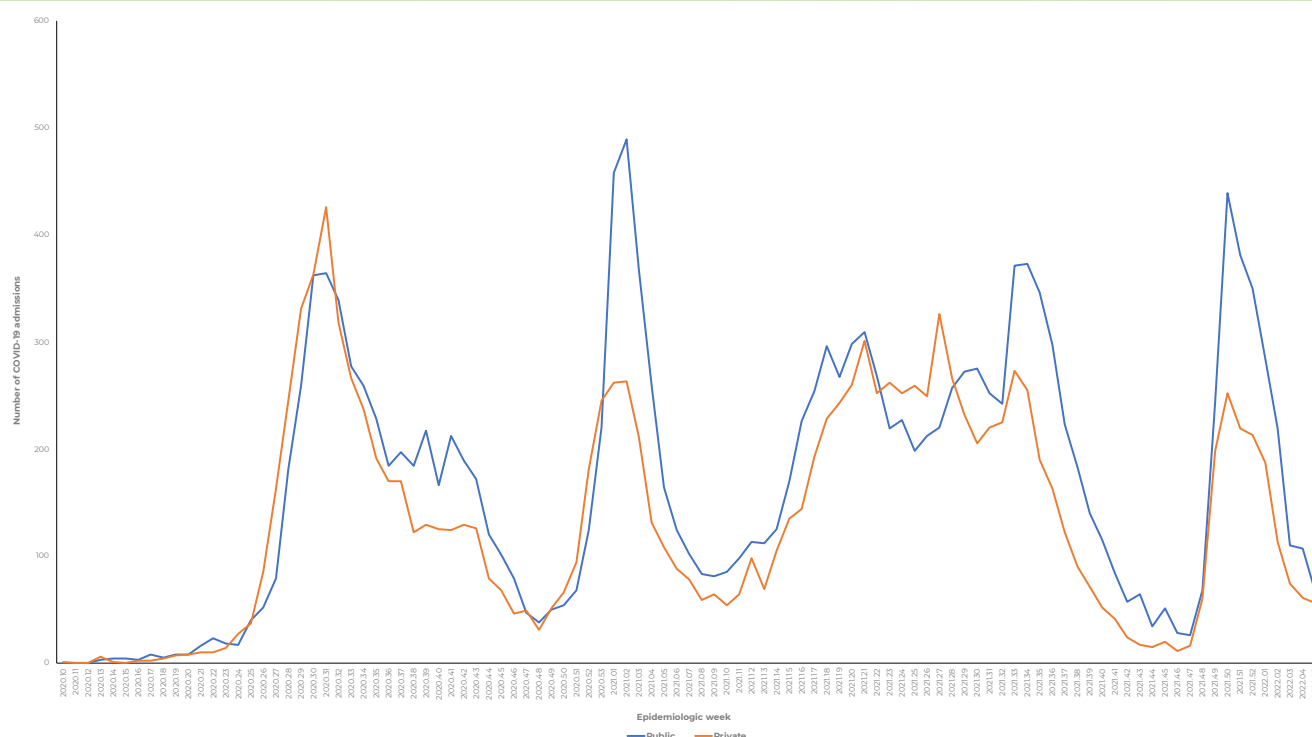


Figure 10: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-5 February 2022, N=30,211

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions in all districts since week 46, there were decreased admissions since the peak in 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.

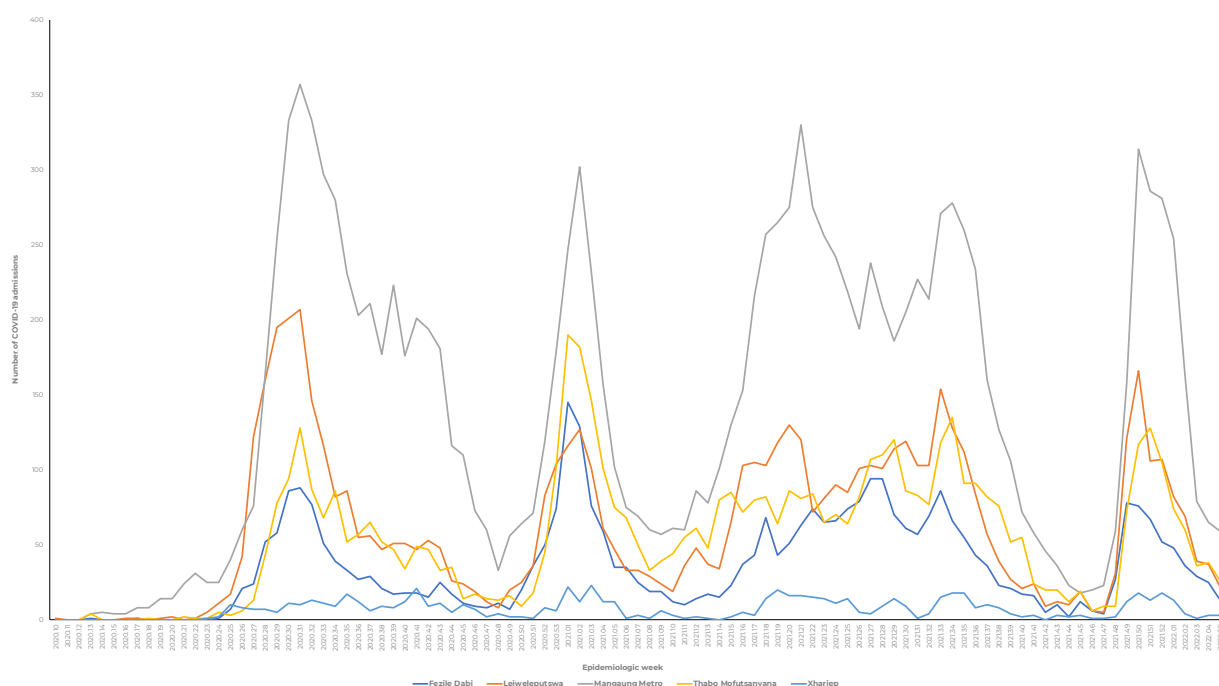


Figure 11: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-5 February 2022, N=30,211

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was an increase in deaths in all districts since week 49 and a decrease in deaths since the peak in week 1 (2022) (Figure 12). Weekly deaths in the fourth wave were lower than the weekly numbers of deaths at the peaks of the prior three waves in all districts.

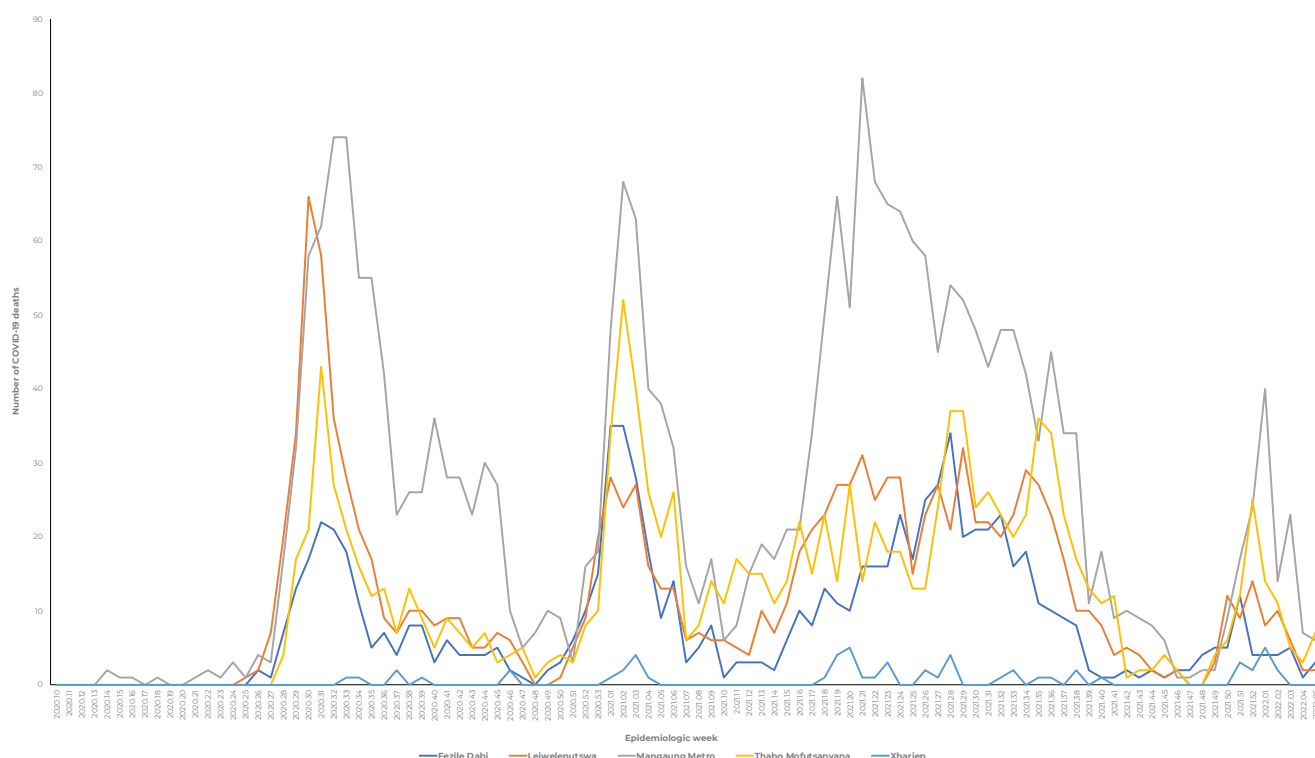


Figure 12: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-5 February 2022, N=5,958

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 except Xhariep (Table 6).

Table 5: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 8 January-5 February 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	4.64	2.71	-41.54	0.64	0.29	-55.56
Lejweleputswa	7.71	4.21	-45.37	1.14	0.29	-75.00
Mangaung Metro	17.29	8.86	-48.76	2.64	0.93	-64.86
Thabo Mofutsanyana	6.86	4.57	-33.33	1.14	0.71	-37.50
Xhariep	0.36	0.43	20.00	0.14	0.00	-100.00

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

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, there were decreased admissions in both sectors since the peak in 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.

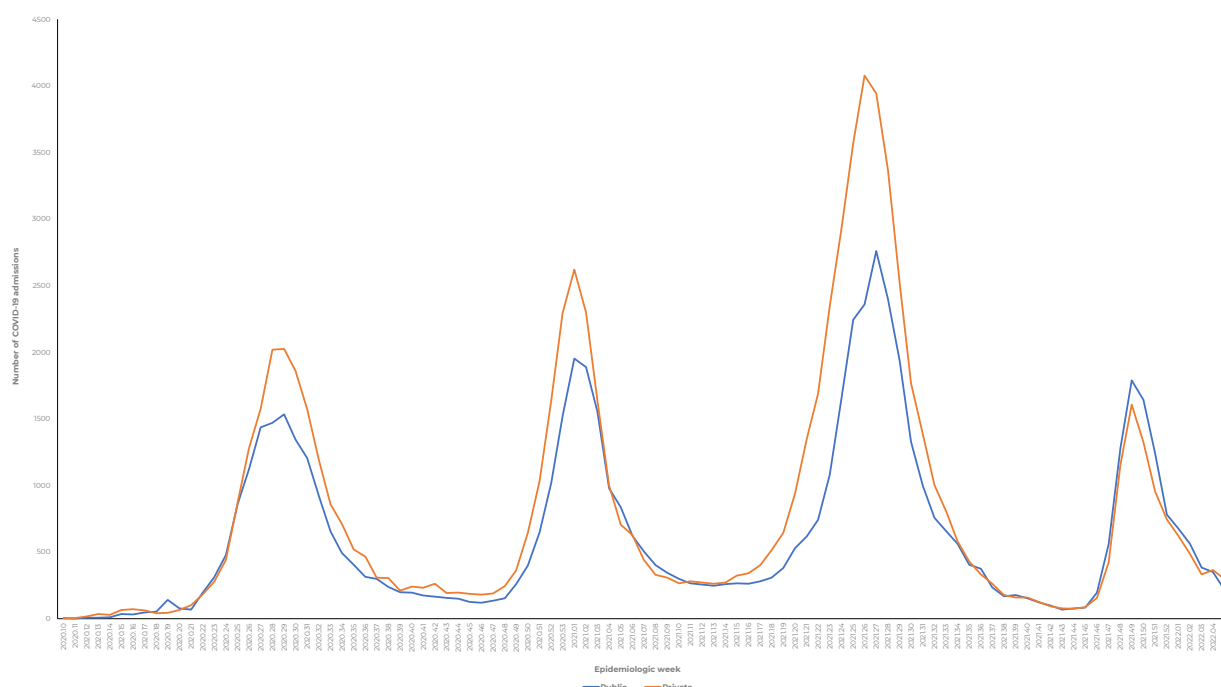


Figure 13: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-5 February 2022, N=144,097

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions since week 45, there were decreased admissions in all districts since the peak in week 49 (Figure 14). An increase in admissions was reported in City of Tshwane Metro in week 4, but admissions have since decreased. 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.

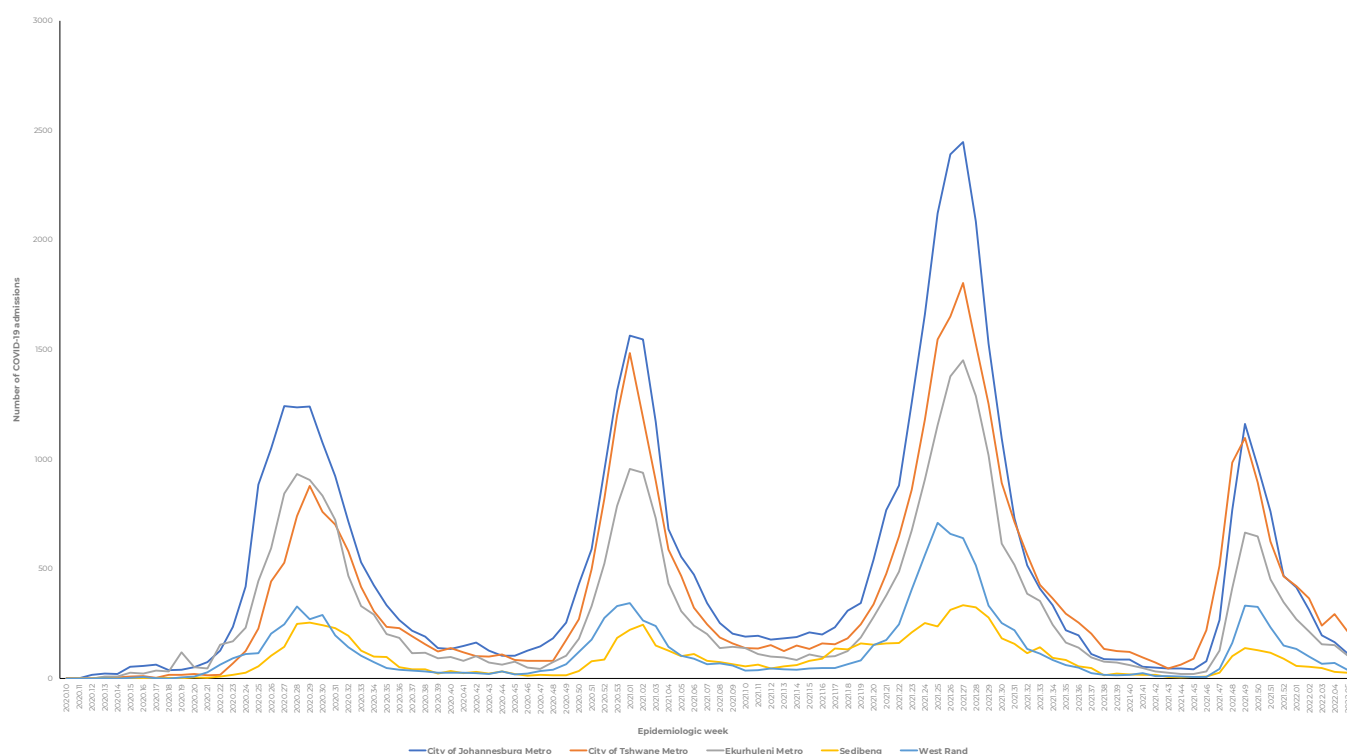


Figure 14: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-5 February 2022, N=144,097

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was an increase in deaths in all districts since week 48 and a decrease since the peak in week 50 (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.

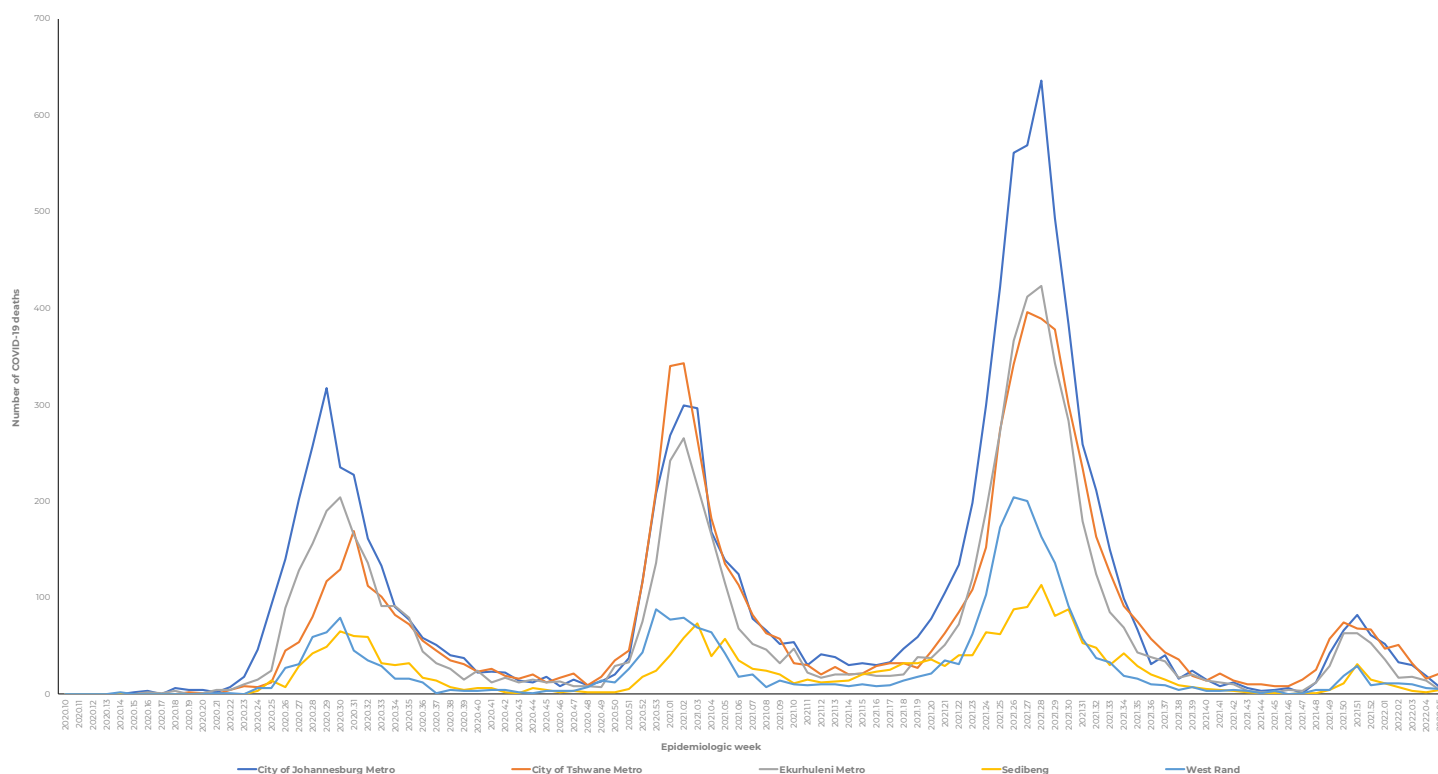


Figure 15: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-5 February 2022, N=29,179

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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, 8 January-5 February 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	36.50	20.21	-44.62	4.43	1.86	-58.06
City of Tshwane Metro	43.21	36.50	-15.54	5.93	2.64	-55.42
Ekurhuleni Metro	26.43	18.50	-30.00	2.50	1.29	-48.57
Sedibeng	7.36	4.14	-43.69	0.71	0.43	-40.00
West Rand	12.00	8.07	-32.74	1.50	0.79	-47.62

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were decreased admissions since the peak in 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.

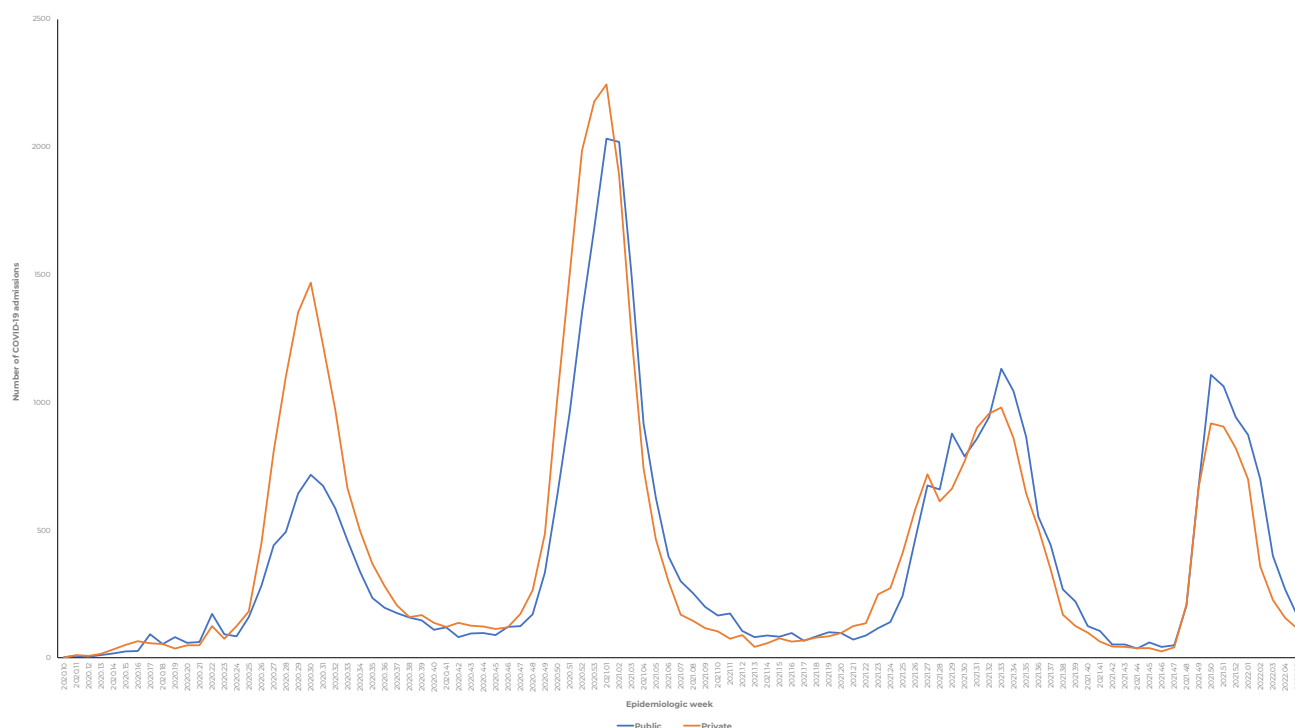


Figure 16: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-5 February 2022, N=81,761

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions in all districts since week 47, there were decreased admissions since the peak in 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.

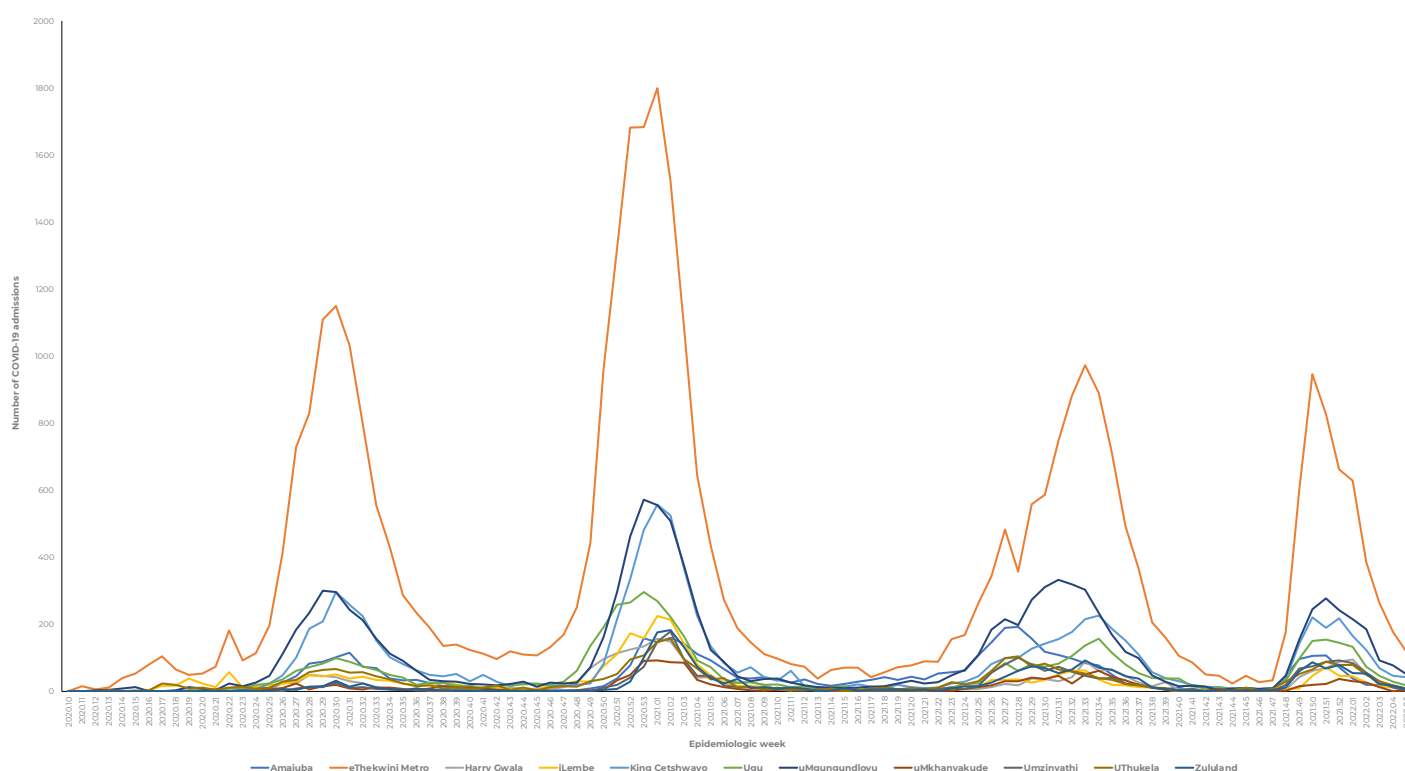


Figure 17: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-5 February 2022, N=81,761

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was an increase in numbers of deaths in eThekwin Metro and uMgungundlovu since week 50 and decrease since the peak in week 1 (2022) (Figure 18). Weekly deaths during the fourth wave were lower than the weekly numbers of deaths in the prior three waves in all districts.

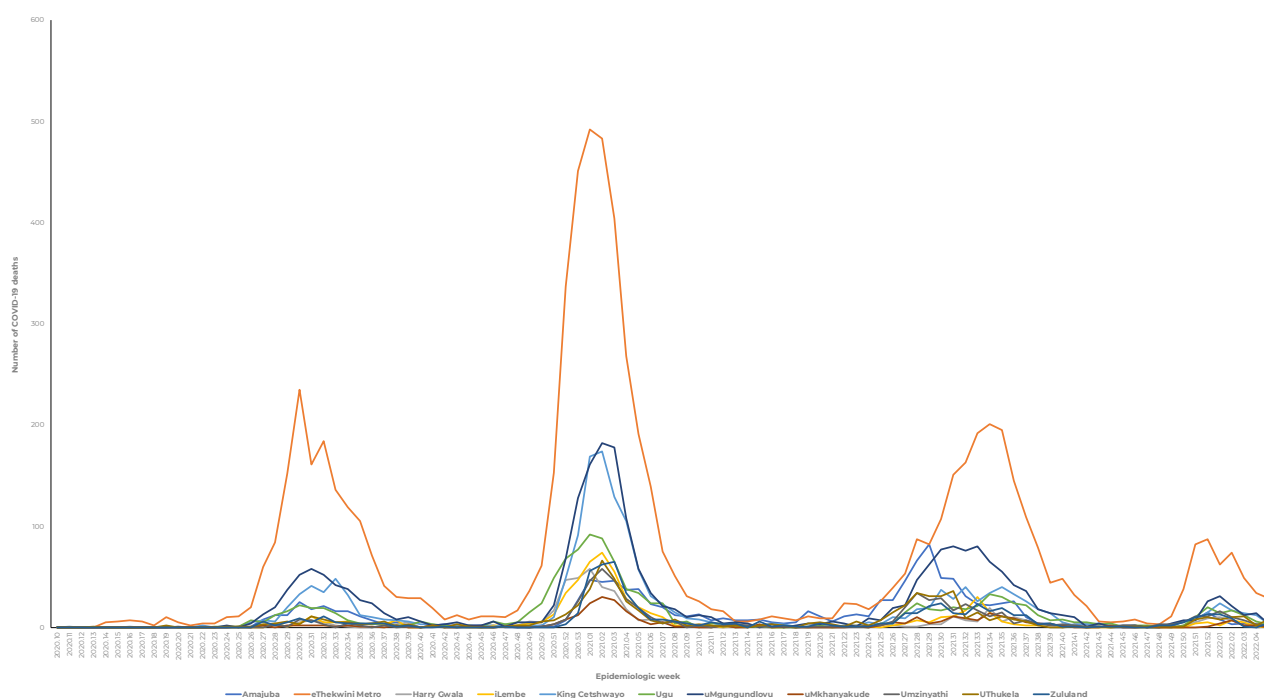


Figure 18: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-5 February 2022, N=16,935

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 8).

Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 8 January-5 February 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	2.86	1.79	-37.50	0.50	0.07	-85.71
eThekweni Metro	46.43	21.21	-54.31	8.79	4.50	-48.78
Harry Gwala	5.29	1.86	-64.86	0.64	0.43	-33.33
iLembe	2.86	1.36	-52.50	0.86	0.07	-91.67
King Cetshwayo	13.64	6.29	-53.93	2.21	1.14	-48.39
Ugu	8.64	3.36	-61.16	2.07	0.64	-68.97
uMgungundlovu	19.93	9.21	-53.76	2.36	1.29	-45.45
uMkhanyakude	2.86	0.29	-90.00	0.64	0.14	-77.78
Umzinyathi	6.07	0.93	-84.71	1.21	0.36	-70.59
UThukela	5.71	1.93	-66.25	1.50	0.71	-52.38
Zululand	5.36	1.79	-66.67	0.71	0.29	-60.00

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were decreased admissions since the peak in week 50 (Figure 19). An increase in admissions was reported in both sectors in week 4, but admissions have since decreased. 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.

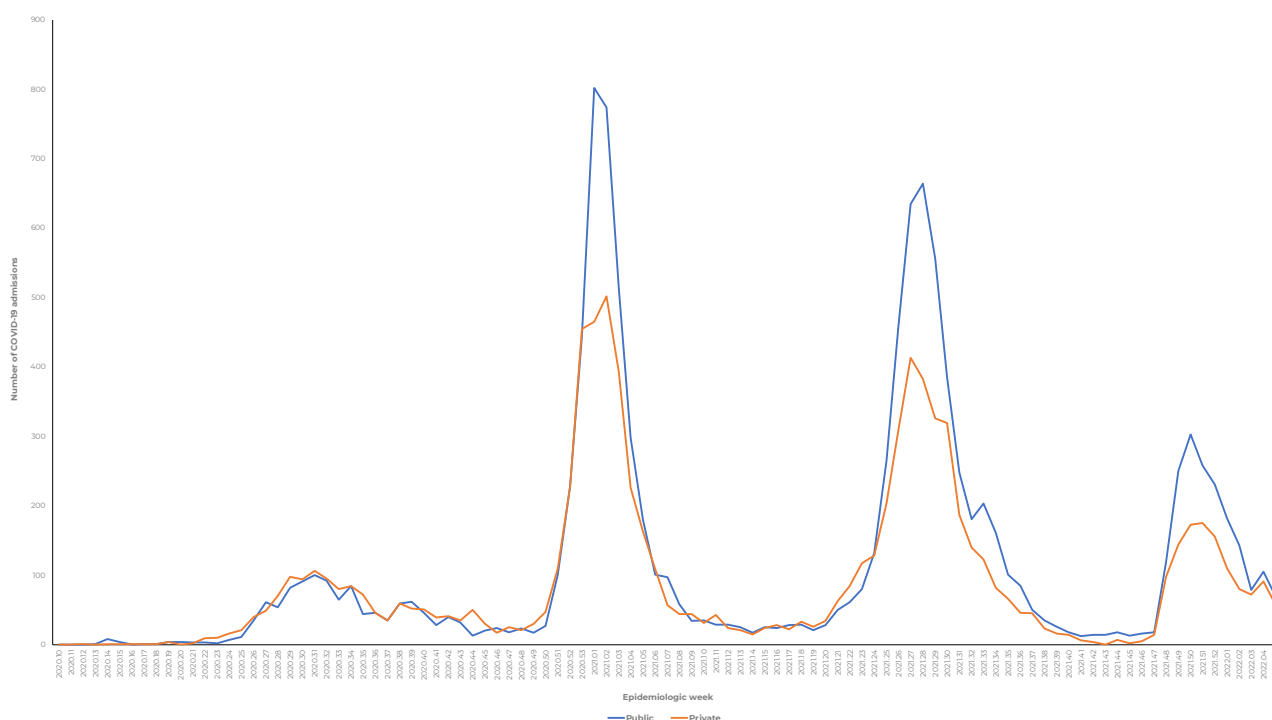


Figure 19: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-5 February 2022, N=20,206

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions in all districts since week 46, there were decreased admissions since the peak in week 50 (Figure 20). There has been an increase in admissions in Waterberg in the past week. 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.

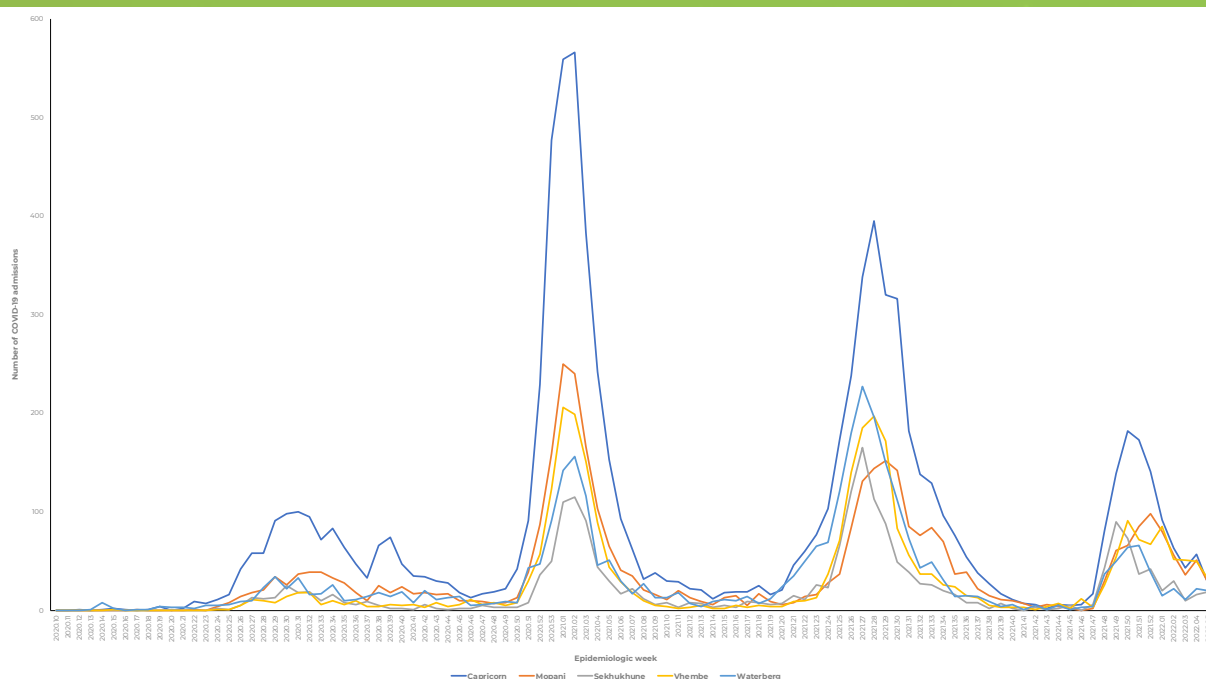


Figure 20: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-5 February 2022, N=20,206

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was a small increase in the numbers of deaths in all districts since week 50 and decrease since the peak in week 1 (2022) (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.

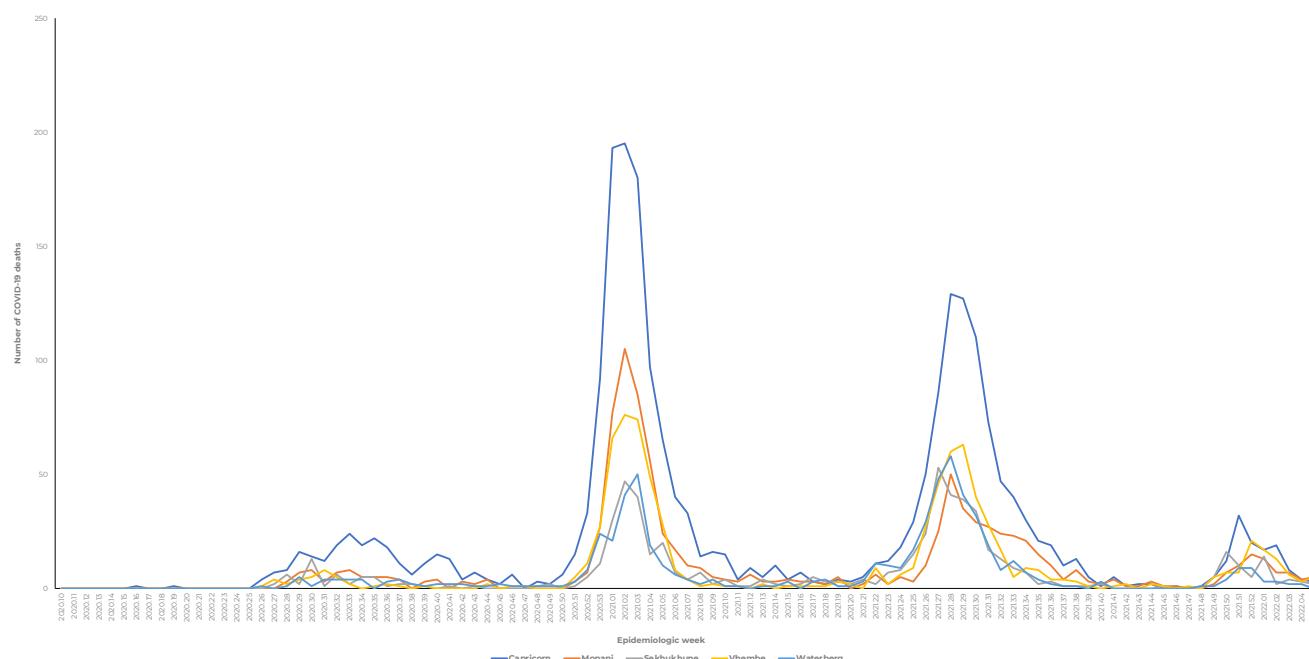


Figure 21: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-5 February 2022, N=5,236

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 except Waterberg (Table 9).

Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 8 January-5 February 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	7.57	6.00	-20.75	1.93	0.50	-74.07
Mopani	6.57	5.64	-14.13	1.00	0.64	-35.71
Sekhukhune	2.86	2.50	-12.50	0.43	0.36	-16.67
Vhembe	7.36	5.86	-20.39	1.36	0.57	-57.89
Waterberg	2.36	2.93	24.24	0.36	0.14	-60.00

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were decreased admissions since the peak in 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.

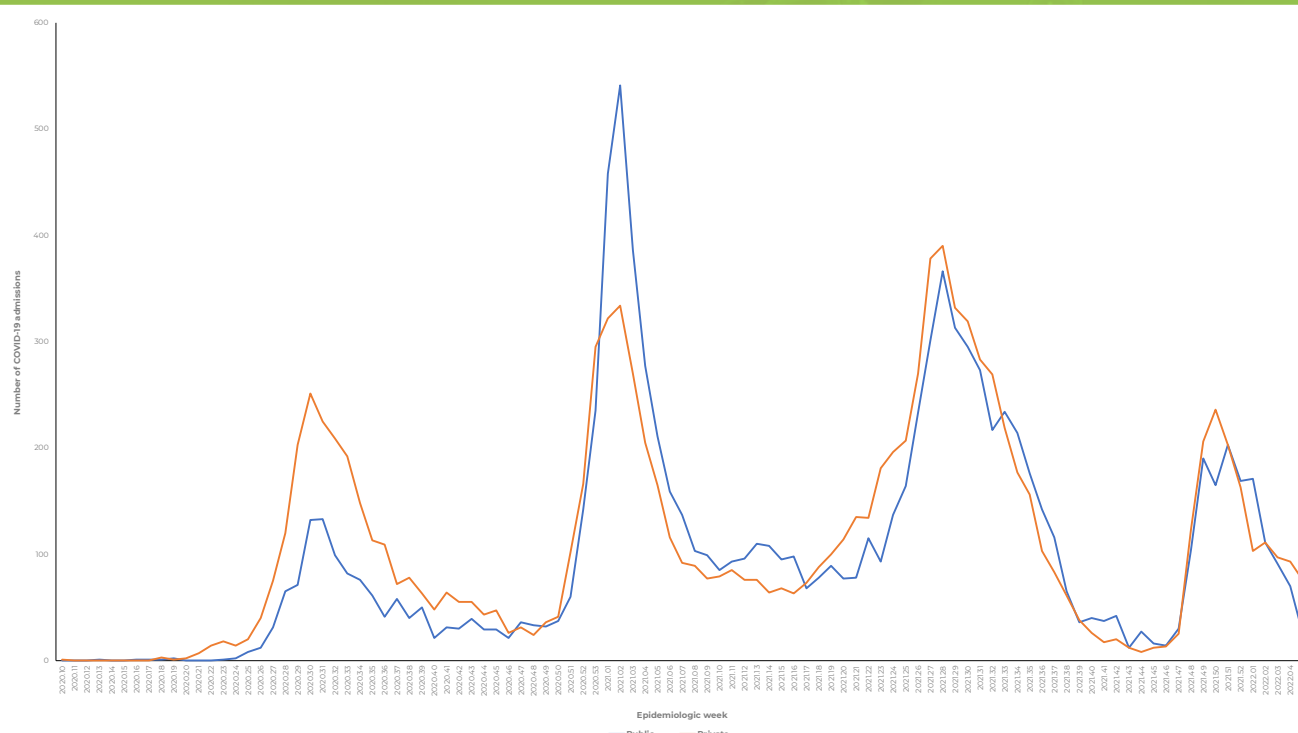


Figure 22: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-5 February 2022, N=21,226

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in the number of weekly admissions in all districts since week 46, there were decreased admissions since the peak in 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.

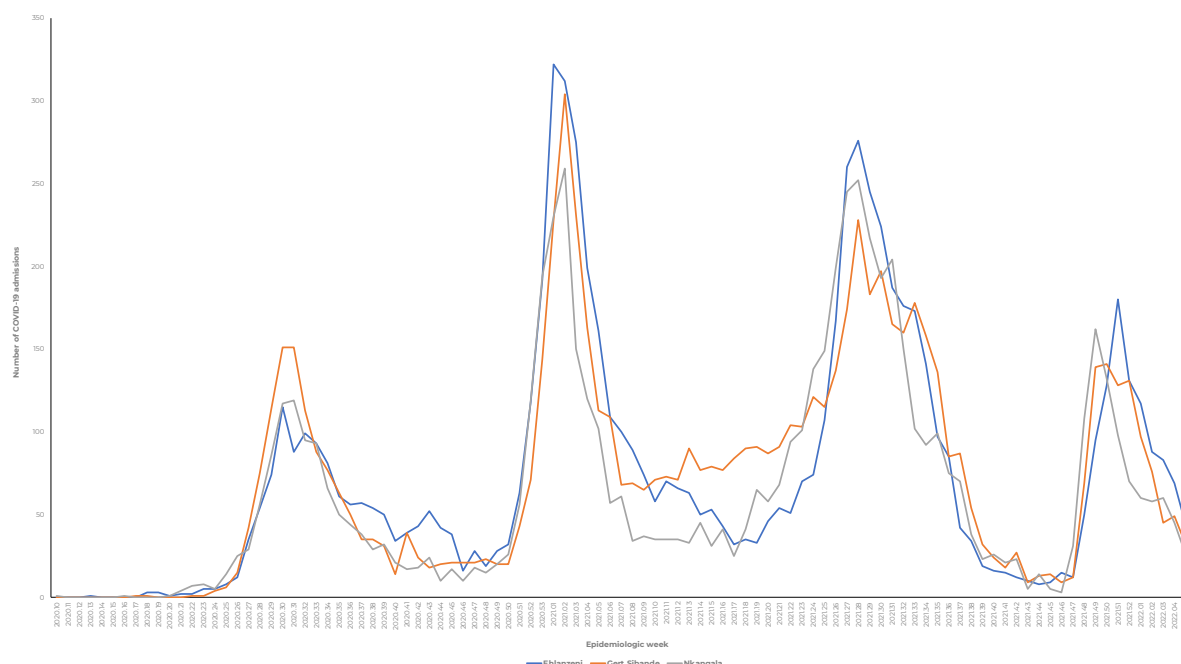


Figure 23: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-5 February 2022, N=21,226

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was a small increase in the number of deaths in all districts since week 49 and decrease since the peak in week 1 (2022 (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.

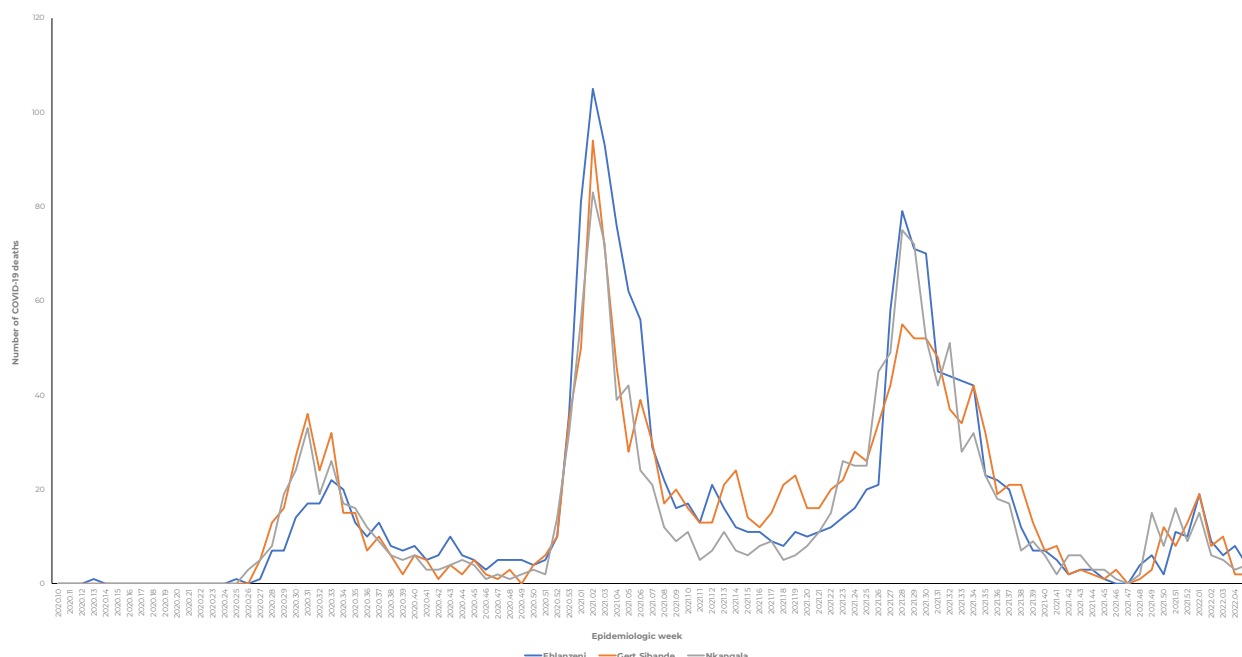


Figure 24: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-5 February 2022, N=4,730

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, 8 January -5 February 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	12.21	8.07	-33.92	1.07	0.86	-20.00
Gert Sibande	8.64	5.79	-33.06	1.29	0.29	-77.78
Nkangala	8.43	5.07	-39.83	0.79	0.50	-36.36

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were decreased admissions since the peak in 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.

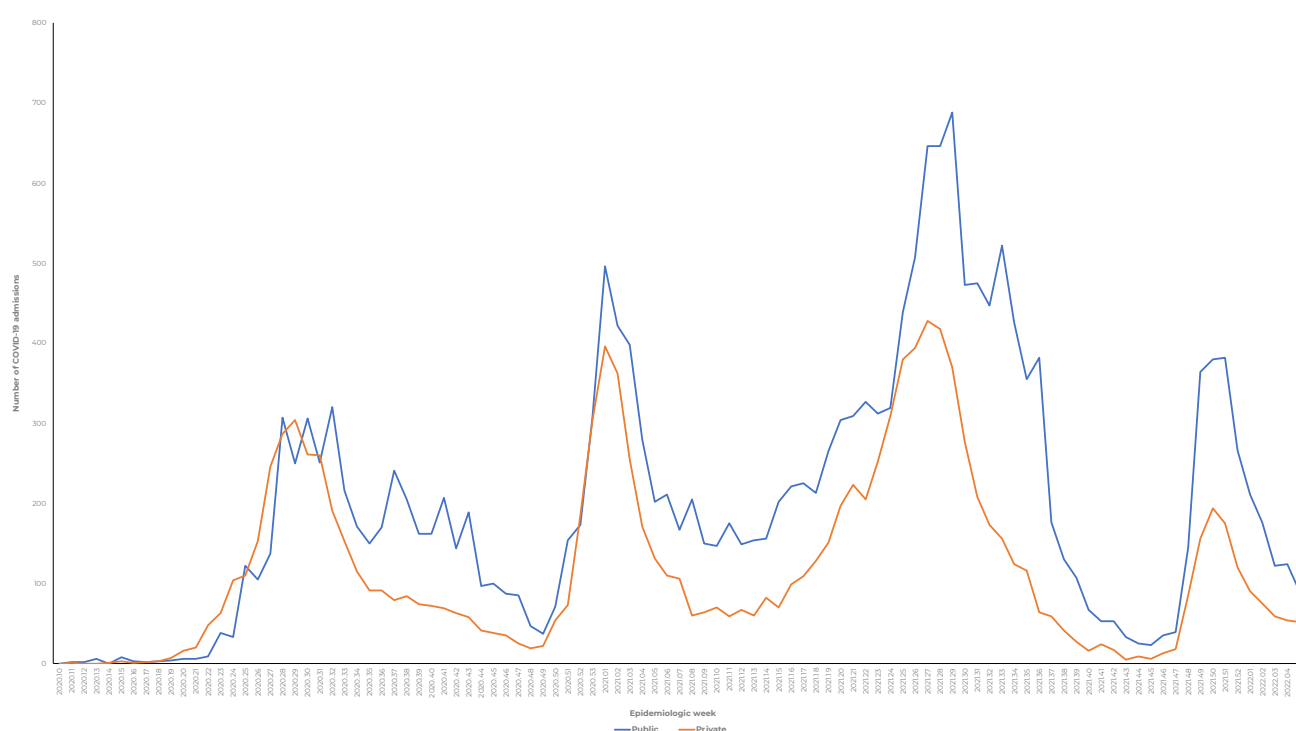


Figure 25: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-5 February 2022, N=32,056

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in the numbers of weekly admissions in all districts since week 46, there were decreased admissions since the peak in week 50 (Figure 26). There has been an increase in admissions in Ngaka Modiri Molema district in the past week. 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.

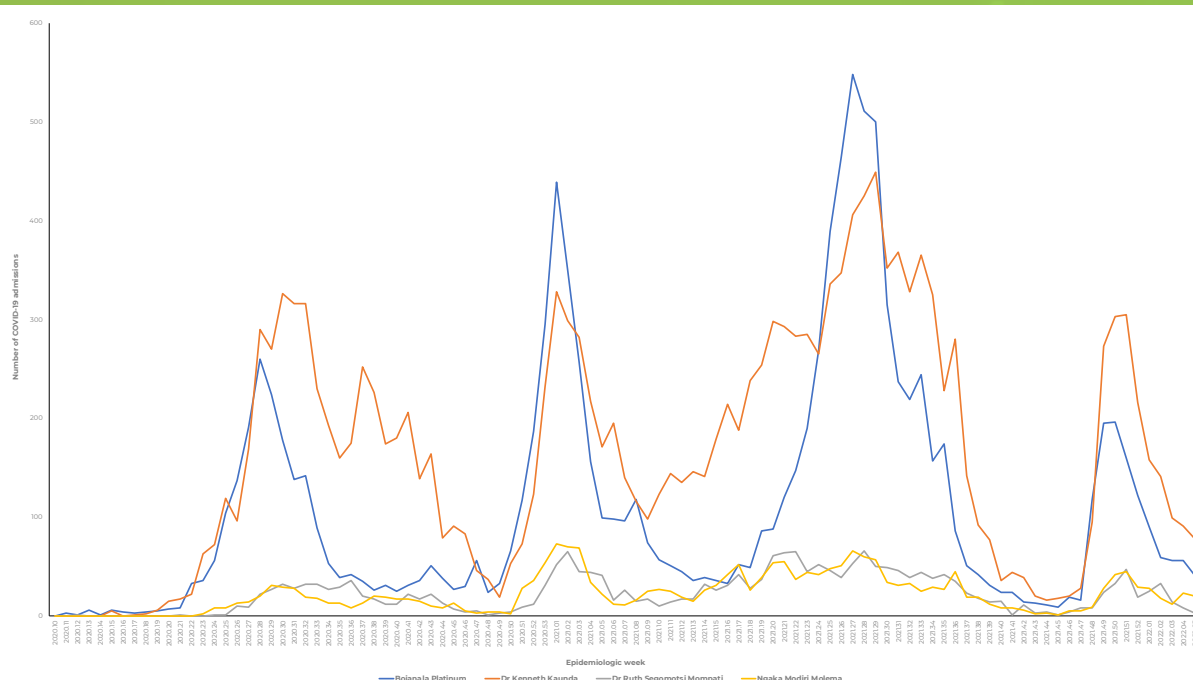


Figure 26. Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-5 February 2022, N=32,056

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was an increase in deaths in Dr Kenneth Kaunda and Bojanala Platinum district since week 49 and decrease since the peak in week 52 (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.

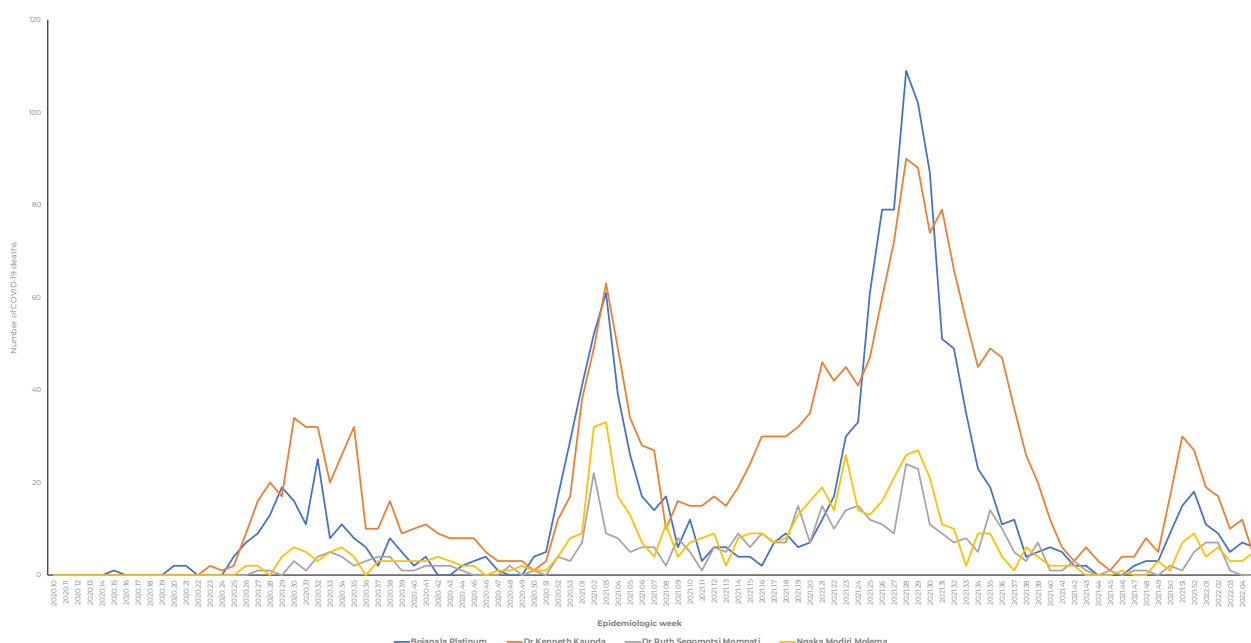


Figure 27: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-5 February 2022, N=4,722

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 except Ngaka Modiri Molema (Table 11).

Table 11: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 8 January -5 February 2022.

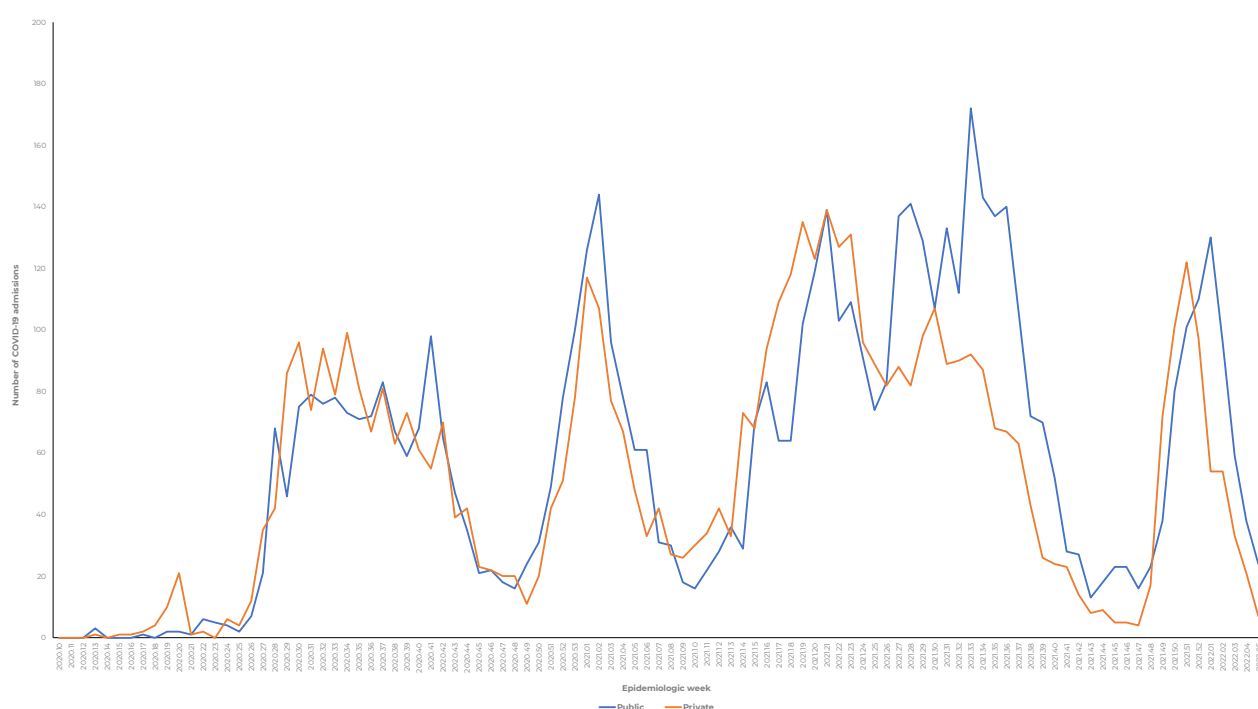
District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum	8.21	6.93	-15.65	1.00	0.93	-7.14
Dr Kenneth Kaunda	17.14	12.07	-29.58	1.93	1.14	-40.74
Dr Ruth Segomotsi Mompoti	3.36	0.79	-76.60	0.57	0.00	-100.00
Ngaka Modiri Molema	2.14	3.07	43.33	0.64	0.57	-11.11

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were decreased admissions since the peak in week 1 (2022) (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 5 2022

Following an increase in weekly admissions in all districts since week 47, there were decreased admissions since the peak in week 1 (2022) (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.

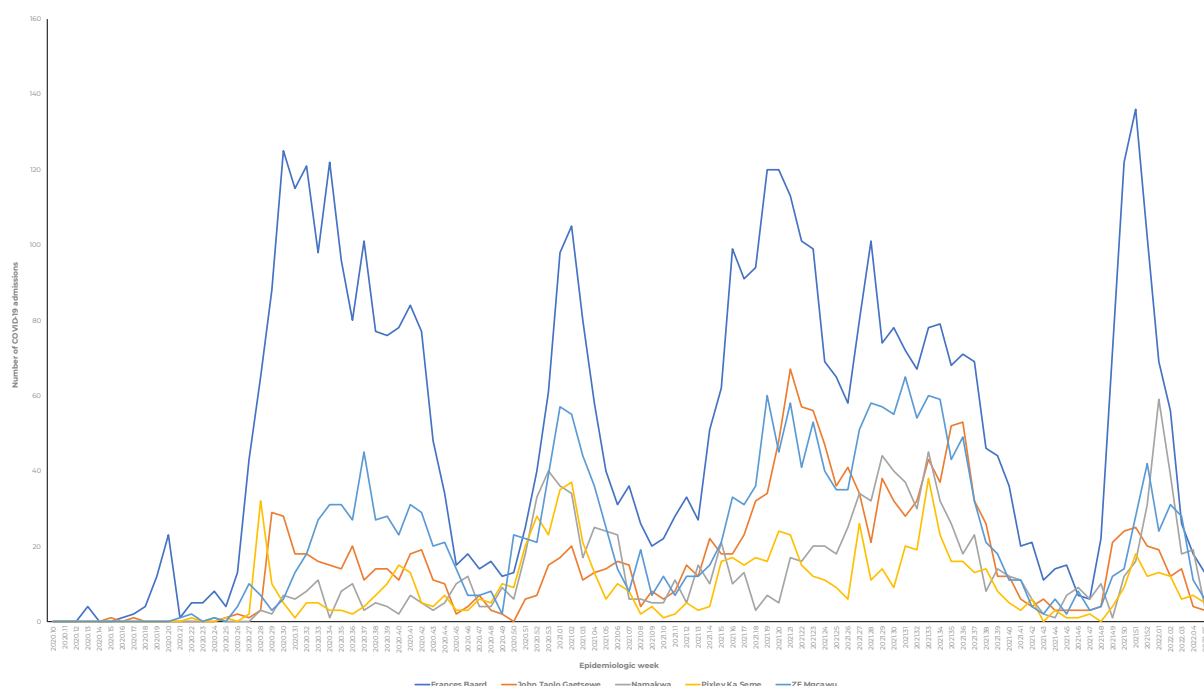


Figure 29: Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-5 February 2022, N=11,274

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There was a small increase in deaths in all districts since week 49 and decreased deaths since the peak in week 52 (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.

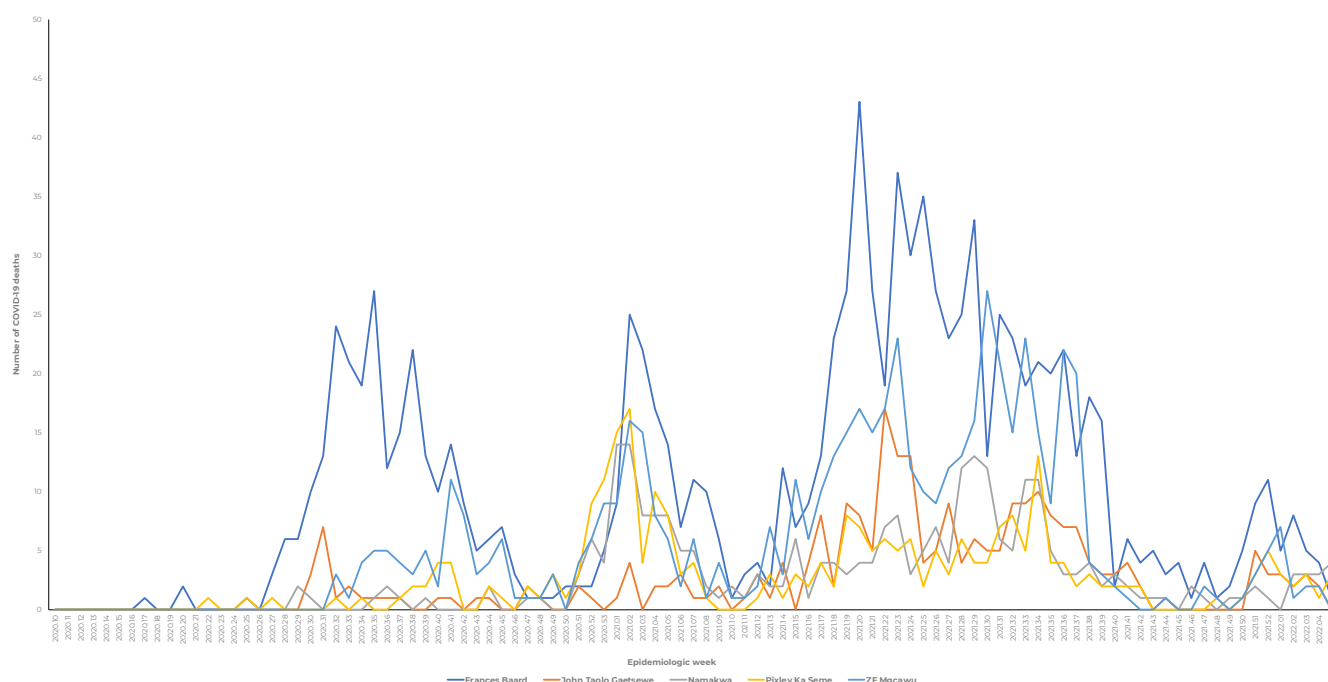


Figure 30: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-5 February 2022, N=2,406

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

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 8 January-5 February 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	5.86	2.21	-62.20	0.93	0.36	-61.54
John Taolo Gaetsewe	1.86	0.50	-73.08	0.36	0.14	-60.00
Namakwa	4.07	1.64	-59.65	0.43	0.50	16.67
Pixley Ka Seme	1.29	0.86	-33.33	0.36	0.29	-20.00
ZF Mgcawu	4.21	1.21	-71.19	0.21	0.14	-33.33

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 were 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.

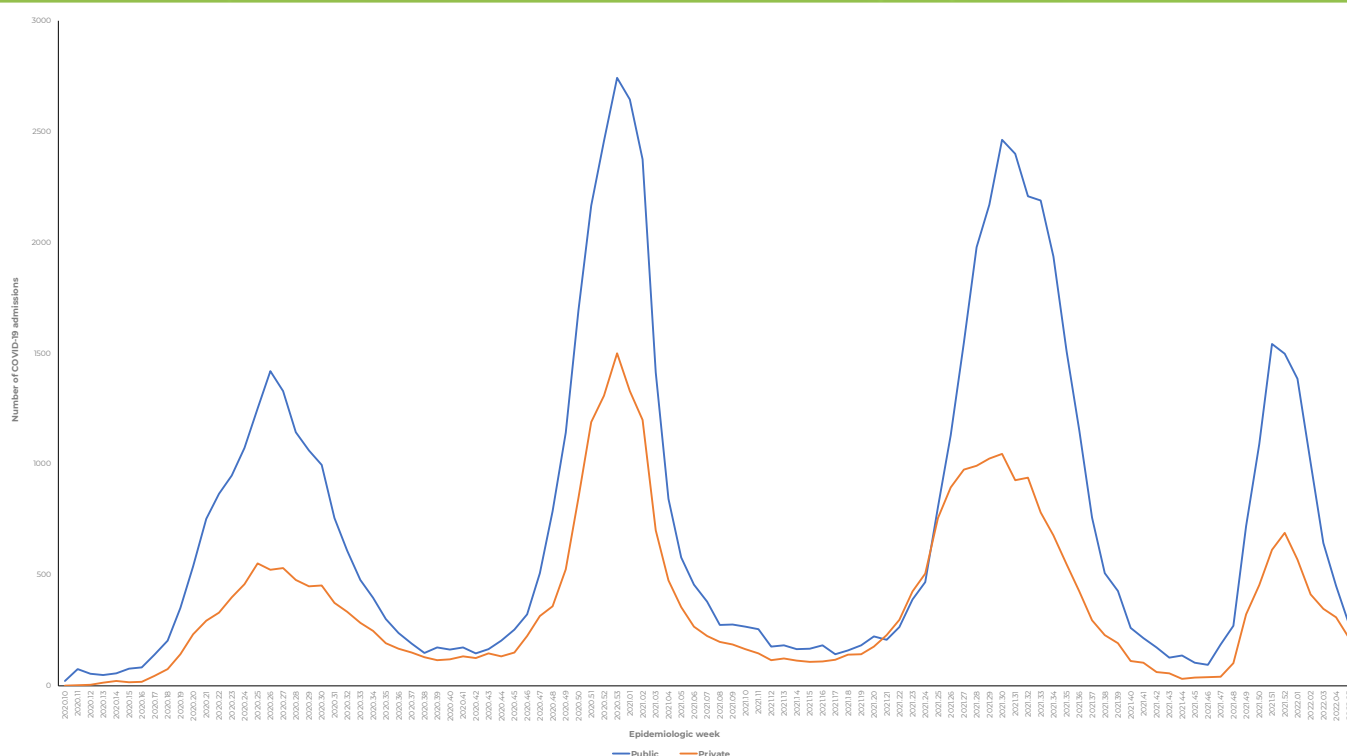


Figure 31: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-5 February 2022, N=111,843

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Following an increase in admissions in all districts since week 47, there were decreased admissions since the peak in 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.

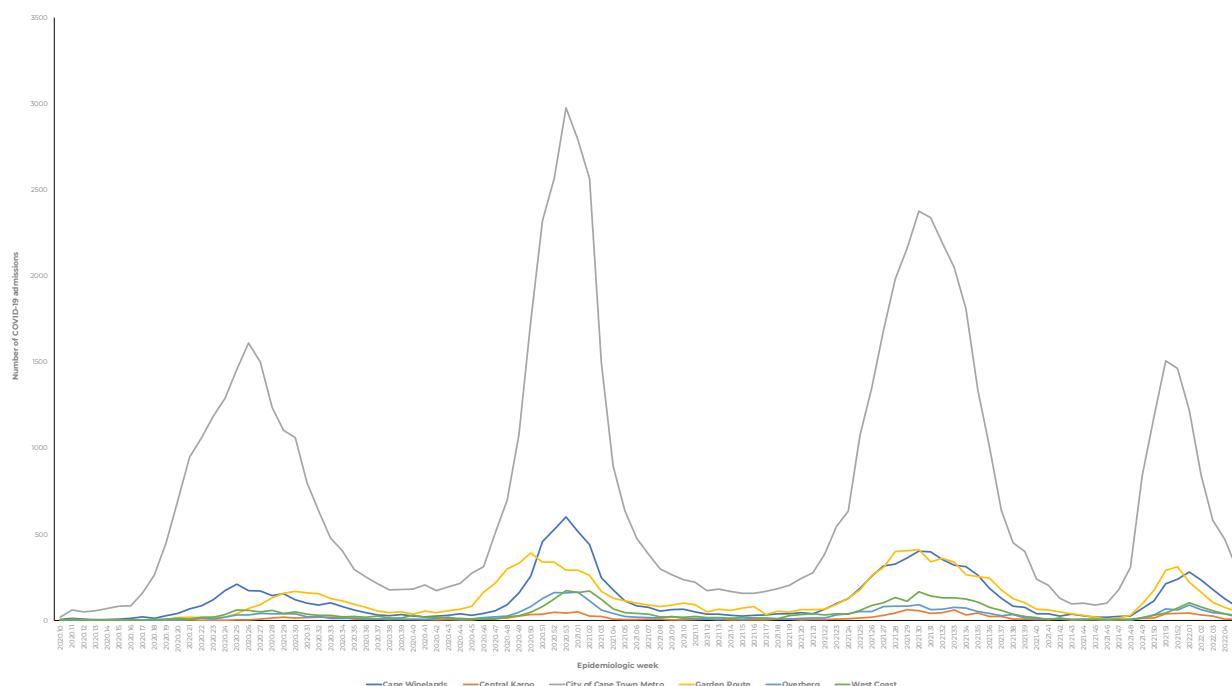


Figure 32: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-5 February 2022, N=111,843

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

There has been an increase in the numbers of deaths in City of Cape Town Metro since week 49 and decreased deaths since week 2 (2022) (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.

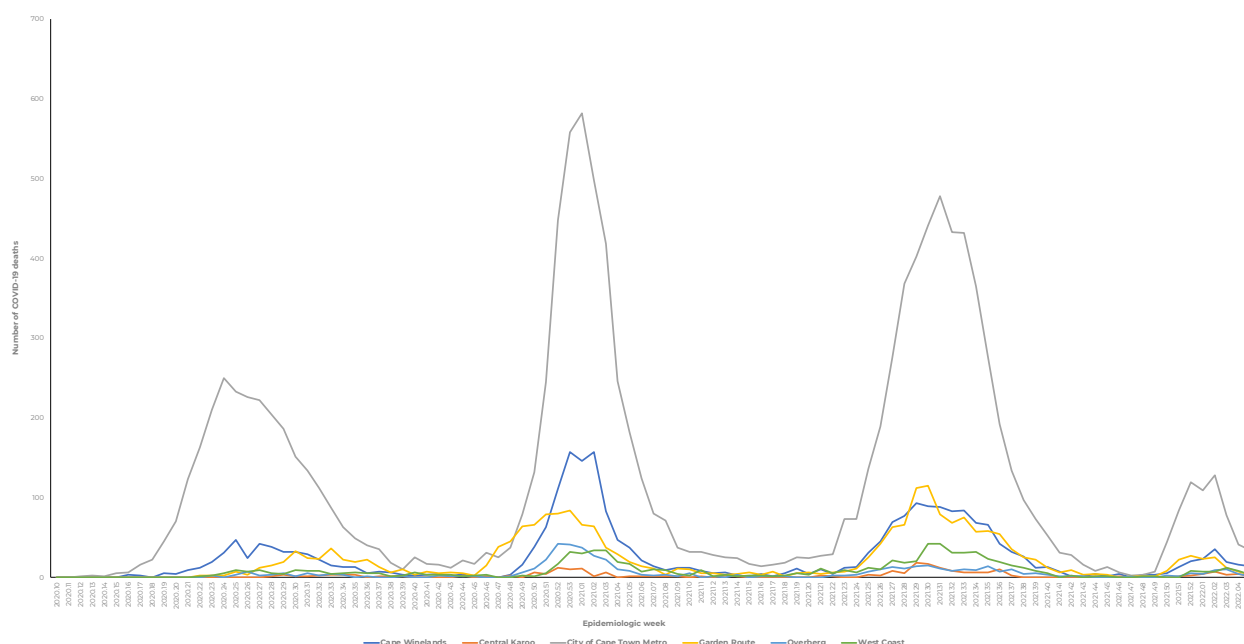


Figure 33: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-5 February 2022, N=18,328

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 13).

Table 13: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 8 January-5 February 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	29.57	15.00	-49.28	3.86	2.14	-44.44
Central Karoo	4.07	1.07	-73.68	0.71	0.36	-50.00
City of Cape Town Metro	101.86	55.64	-45.37	14.71	5.36	-63.59
Garden Route	19.21	9.07	-52.79	2.64	0.71	-72.97
Overberg	7.64	4.29	-43.93	1.36	0.36	-73.68
West Coast	9.57	4.64	-51.49	1.36	0.79	-42.11

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 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 5 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 5 2022

APPENDIX

Table 14: Percentage incidence change in hospital admissions over 14 days, by district, South Africa, 22 January 2022-5 February 2022.

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	2650	321.40	6	0.73	-45.45
	Amathole	3249	415.18	1	0.13	-80.00
	Buffalo City Metro	10372	1310.44	40	5.05	-18.37
	Chris Hani	5102	716.01	11	1.54	-26.67
	Joe Gqabi	1168	340.61	4	1.17	33.33
	Nelson Mandela Bay Metro	16154	1339.03	55	4.56	-25.68
	O R Tambo	4898	319.38	10	0.65	-33.33
	Sarah Baartman	3284	680.53	5	1.04	-54.55
Free State	Fezile Dabi	3548	693.58	13	2.54	-55.17
	Lejweleputswa	6211	950.88	25	3.83	-41.86
	Mangaung Metro	14277	1629.09	69	7.87	-2.82
	Thabo Mofutsanyana	5485	717.66	26	3.40	-35.00
	Xhariep	704	554.14	3	2.36	0.00
Gauteng	City of Johannesburg Metro	51013	848.35	126	2.10	-30.39
	City of Tshwane Metro	40039	1048.04	244	6.39	-31.84
	Ekurhuleni Metro	31367	775.18	116	2.87	-31.36
	Sedibeng	8995	923.50	30	3.08	-23.08
	West Rand	12750	1333.11	44	4.60	-38.89
KwaZulu-Natal	Amajuba	4518	796.82	8	1.41	-55.56
	eThekweni Metro	37176	927.18	142	3.54	-26.80
	Harry Gwala	2600	513.70	10	1.98	-44.44
	iLembe	2972	427.19	6	0.86	-57.14
	King Cetshwayo	8936	936.56	45	4.72	-13.46
	Ugu	5495	683.07	18	2.24	-43.75
	uMgungundlovu	11046	969.02	60	5.26	-31.03

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	1451	210.90	3	0.44	50.00
	Umzinyathi	2178	386.11	2	0.35	-84.62
	UThukela	3084	440.33	10	1.43	-47.37
	Zululand	2331	263.63	8	0.90	-57.89
Limpopo	Capricorn	8383	631.76	34	2.56	-46.88
	Mopani	3691	306.90	28	2.33	-45.10
	Sekhukhune	2032	167.02	19	1.56	18.75
	Vhembe	2955	206.60	34	2.38	-35.85
	Waterberg	3156	420.71	21	2.80	-12.50
Mpumalanga	Ehlanzeni	7458	407.90	51	2.79	-32.89
	Gert Sibande	7342	579.08	35	2.76	-38.60
	Nkangala	6436	390.69	32	1.94	-40.74
North West	Bojanala Platinum	11058	567.61	45	2.31	-27.42
	Dr Kenneth Kaunda	16576	2063.49	83	10.33	-14.43
	Dr Ruth Segomotsi Mompati	2224	476.72	3	0.64	-62.50
	Ngaka Modiri Molema	2206	243.79	20	2.21	-13.04
Northern Cape	Frances Baard	5264	1265.48	13	3.13	-38.10
	John Taolo Gaetsewe	1605	580.77	5	1.81	25.00
	Namakwa	1271	1086.41	4	3.42	-81.82
	Pixley Ka Seme	909	432.01	5	2.38	-28.57
	ZF Mgcawu	2228	786.41	8	2.82	-33.33
Western Cape	Cape Winelands	12794	1338.54	104	10.88	-42.54
	Central Karoo	1354	1786.47	7	9.24	-46.15
	City of Cape Town Metro	77982	1666.67	459	9.81	-36.95
	Garden Route	12710	2023.10	68	10.82	-36.45
	Overberg	3116	1019.87	32	10.47	-38.46
	West Coast	4241	903.31	36	7.67	-34.55

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 5 2022

APPENDIX

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

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	5379	6756	36	12171	169	185	2	356
5-9	1538	2045	8	3591	28	29	0	57
10-14	2271	2252	9	4532	64	60	0	124
15-19	6459	3530	6	9995	142	128	0	270
20-24	10204	5076	6	15286	324	252	1	577
25-29	16182	7290	14	23486	709	485	1	1195
30-34	20763	11639	10	32412	1217	1035	1	2253
35-39	21599	15393	20	37012	1763	1649	4	3416
40-44	19314	17146	14	36474	2169	2242	0	4411
45-49	21415	21112	12	42539	3116	3304	1	6421
50-54	24993	23396	10	48399	4287	4419	2	8708
55-59	27892	25306	13	53211	6087	6091	5	12183
60-64	24685	22670	20	47375	6562	6757	6	13325
65-69	21323	19032	17	40372	6791	6347	6	13144
70-74	18117	15974	19	34110	6021	5861	4	11886
75-79	13591	11172	9	24772	4750	4444	3	9197
80-84	10354	7202	8	17564	3897	3010	3	6910
85-89	5579	3476	2	9057	2156	1583	0	3739
90-94	2450	1197	1	3648	1058	603	0	1661
>=95	766	359	2	1127	346	153	0	499
Unknown	1174	1183	45	2402	69	113	0	182
Total	276048	223206	281	499535	51725	48750	39	100514