

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 3 2021

OVERVIEW

This report summarises data of COVID-19 cases admitted to DATCOV hospital surveillance sites in all provinces. The report is based on data collected from 5 March 2020 to 23 January 2021.

HIGHLIGHTS

- As of 23 January 2021, 188,602 COVID-19 admissions and 37,054 in-hospital deaths were reported from 635 facilities (384 public-sector and 251 private-sector) in all nine provinces of South Africa.
- There has been a resurgence in admissions in all provinces. The weekly admissions and deaths in the second wave have exceeded the numbers at the peak of the first wave in all provinces except Free State.
- Between week 2 and week 3 2021, the number of COVID-19 admissions decreased in all provinces, which may reflect delays in data submission in some cases. Admissions and deaths have decreased in Eastern Cape since week 50 2020; and in Western Cape since week 53 2020.

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METHODS

DATCOV, a hospital surveillance system for COVID-19 admissions, was initiated on the 1 April 2020. A COVID-19 case was defined as a person with a positive reverse transcriptase polymerase chain reaction (RT-PCR) assay for SARS-CoV-2 who was admitted to a DATCOV sentinel hospital. Case fatality ratio (CFR) was calculated for all closed cases, i.e. COVID-19 deaths divided by COVID-19 deaths plus COVID-19 discharges, excluding individuals who are still admitted in hospital. For the calculation of cumulative incidence risks, StatsSA mid-year population estimates for 2020 were utilised.

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 23 January 2021, a total of 635 facilities submitted data on hospitalised COVID-19 cases, 384 from public sector and 251 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 2020-23 January 2021

Name of province	Public Sector	Private Sector
Eastern Cape	85	18
Free State	35	20
Gauteng	39	91
KwaZulu-Natal	65	45
Limpopo	41	7
Mpumalanga	30	9
North West	14	12
Northern Cape	16	8
Western Cape	59	41
South Africa	384	251

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RESULTS

Epidemiological and geographic trends in admissions

From 5 March 2020 to 23 January 2021, a total of 188,602 COVID-19 admissions were reported from 635 facilities in all nine provinces of South Africa. There has been a resurgence in both public and private sector since week 40 2020; the peak weekly numbers of admissions surpassed the numbers during the peak of the first wave in both sectors (Figure 1). Since week 1 2021, there have been decreases in numbers of admissions in both public and private sector, decreases in the most recent week may reflect delays in data submission.

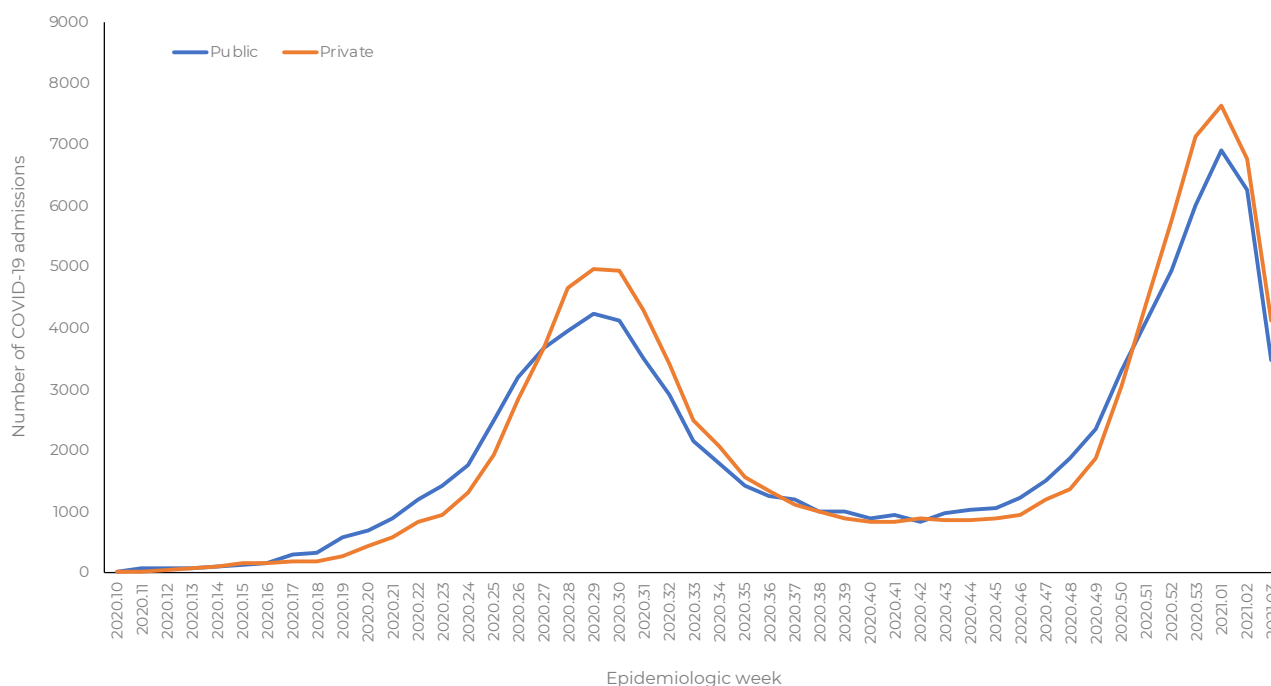


Figure 1. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020–23 January 2021, n=188,602

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The majority of admissions were recorded in four provinces, Gauteng, Western Cape, Eastern Cape and KwaZulu-Natal provinces. Admissions have increased in Eastern Cape since week 40 2020, Western Cape since week 43 2020, KwaZulu-Natal since week 46 2020, Gauteng since week 48 2020 and all other provinces since week 48 or 49 2020 (Figure 2). The weekly numbers of admissions in all provinces except Free State surpassed the numbers during the peak of the first wave. Numbers are now decreasing in all provinces. Reductions in the most recent week may be as a result of delayed reporting.

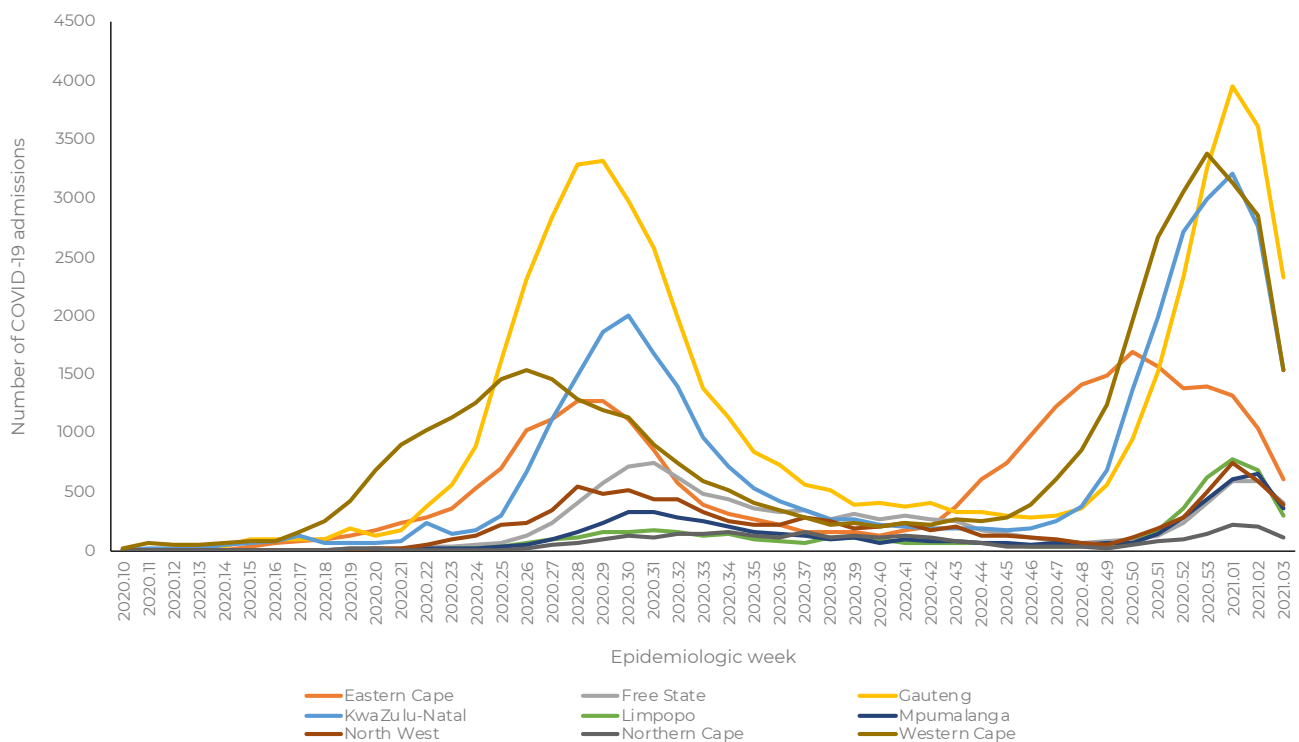


Figure 2. Number of reported COVID-19 admissions, by province and epidemiologic week of diagnosis, South Africa, 5 March 2020-23 January 2021, n=188,602

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EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

There has been an increase in deaths in both public and private sector since week 42 2020; the weekly numbers of deaths surpassed the numbers during the peak of the first wave in both sectors (Figure 3). In the first wave there were more deaths in the public sector whereas in the second wave the proportion of deaths in the private sector was higher.

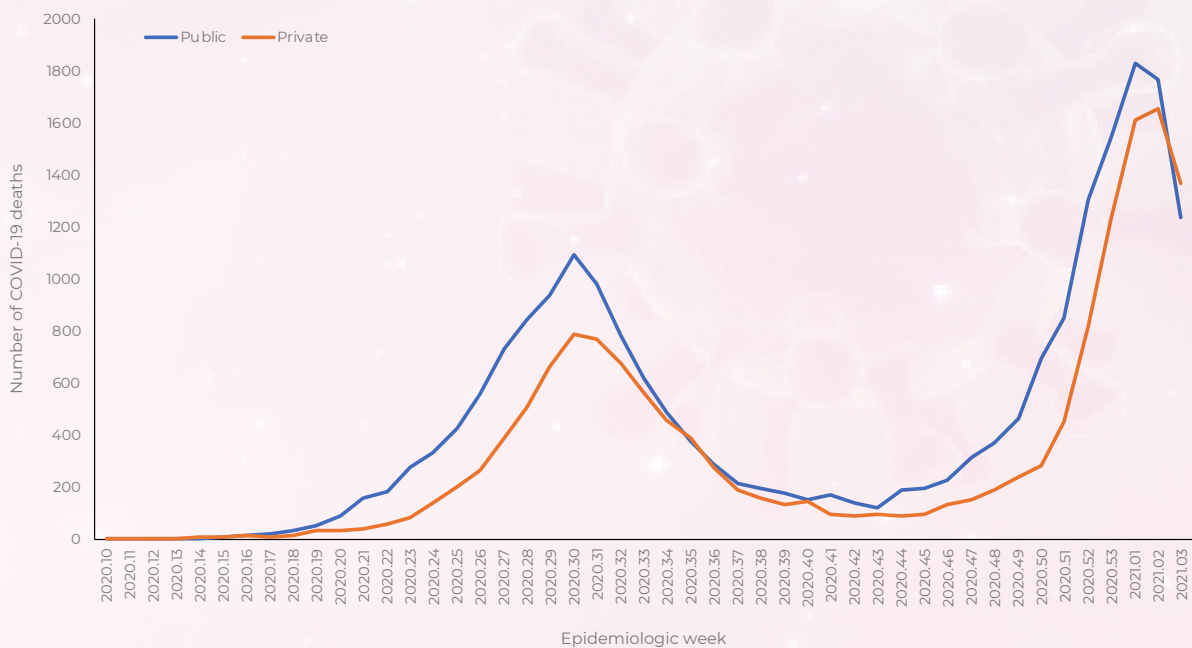


Figure 3. Number of in-hospital COVID-19 in-hospital deaths reported per week by health sector and epidemiologic week, South Africa, 5 March 2020-23 January 2021, n=37,054

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Most deaths were reported in Eastern Cape, Gauteng, Western Cape and KwaZulu-Natal (Figure 4). The weekly numbers of deaths in all provinces except Free State surpassed the numbers during the peak of the first wave.

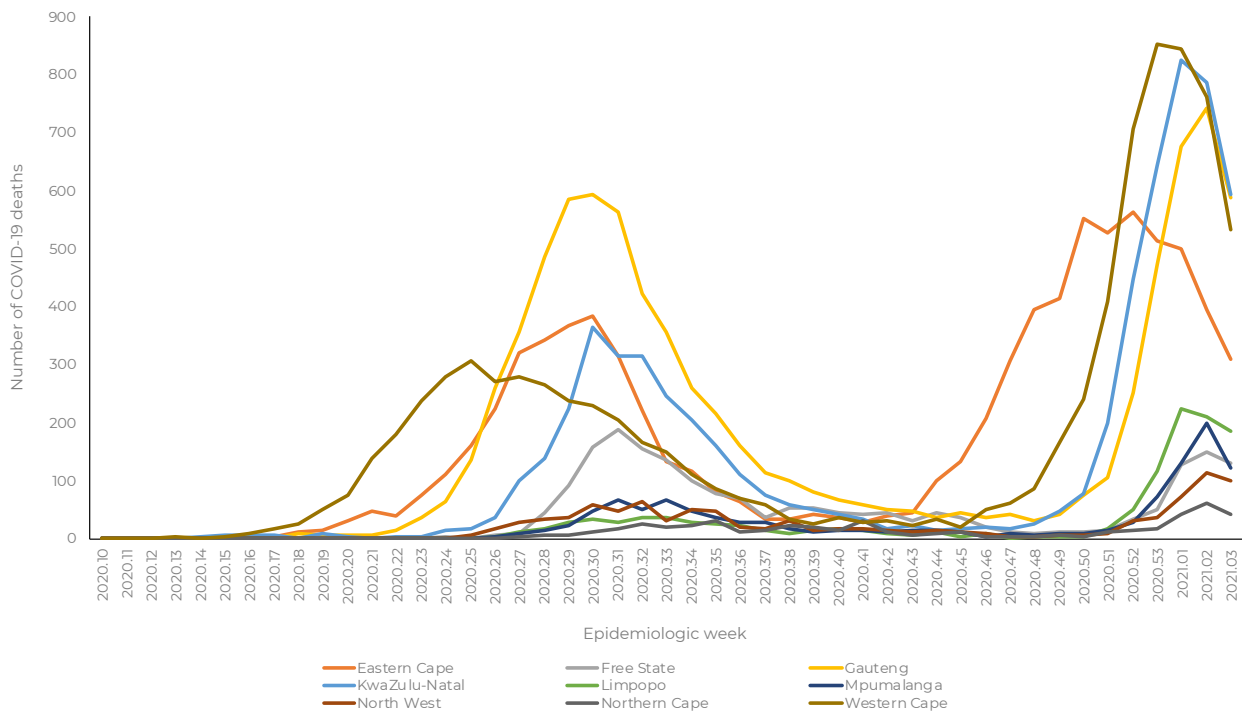


Figure 4. Number of reported COVID-19 in-hospital deaths, by province and epidemiologic week of death, South Africa, 5 March 2020-23 January 2021, n=37054

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The cumulative incidence risks of COVID-19 admissions were highest in Western Cape and Eastern Cape provinces; and for deaths were highest in Eastern Cape and Western Cape 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 2020-23 January 2021

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative Admissions / 100,000	Cumulative deaths	Cumulative deaths / 100,000
Eastern Cape	6734001	27845	413.5	8252	122.5
Free State	2928903	10362	353.8	2012	68.7
Gauteng	15488137	50,763	327.8	8205	53.0
KwaZulu-Natal	11531628	34357	297.9	6311	54.7
Limpopo	5852553	5239	89.5	1209	20.7
Mpumalanga	4679786	5804	124.0	1143	24.4
North West	4108816	9,474	230.6	993	24.2
Northern Cape	1292786	3,109	240.5	520	40.2
Western Cape	7005741	41,649	594.5	8409	120.0
South Africa	59622350	188,602	316.3	37,054	62.1

*StatsSA mid-year population estimates 2020

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MONITORING FOR RESURGENCE

The number of COVID-19 admissions decreased in all provinces from week 2 to week 3 2021. The highest proportion of new admissions were in Gauteng, Western Cape and KwaZulu-Natal (Table 3). Decreases in the most recent week may in part reflect delays in data submission. Xhariep was the only 1 of 52(2%) districts across the country that reported increased admissions change over the previous 14 days (Appendix 1).

Table 3. Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 of 2021, by province, South Africa

Province	Hospital admissions		Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100,000 persons
	Week 2	Week 3*			
Eastern Cape	1032	604	-41	8.0	9.0
Free State	595	399	-33	5.3	13.6
Gauteng	3615	2331	-36	30.8	15.1
KwaZulu-Natal	2760	1538	-44	20.3	13.3
Limpopo	687	300	-56	4.0	5.1
Mpumalanga	654	356	-46	4.7	7.6
North West	596	396	-34	5.2	9.6
Northern Cape	202	115	-43	1.5	8.9
Western Cape	2855	1536	-46	20.3	21.9
South Africa	12,996	7,575	-42	100.0	12.7

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

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EASTERN CAPE

The increase in admissions in the Eastern Cape started in week 40 2020, in public and private sectors, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors. Since week 50 2020, a decrease in admissions has been observed in both sectors (Figure 5).

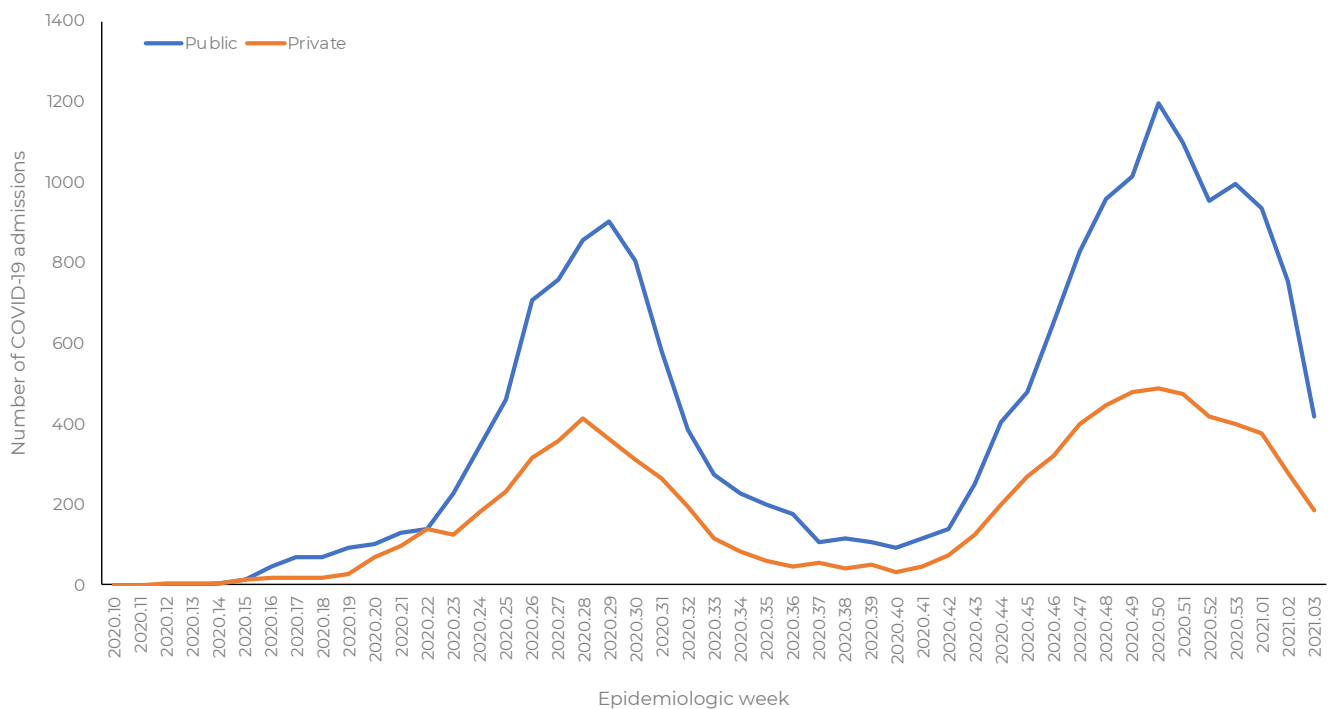


Figure 5: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-23 January 2021

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The increase in admissions in Eastern Cape was predominantly in Nelson Mandela Bay Metro and Buffalo City Metro. The weekly admissions exceeded the numbers of admissions at the peak of the first wave in all districts (Figure 6). Admissions have decreased in Nelson Mandela Bay Metro since week 47 2020, in Sarah Baartman since week 48 2020 and in Buffalo City since week 51 2020 and in all other districts in the past three weeks.

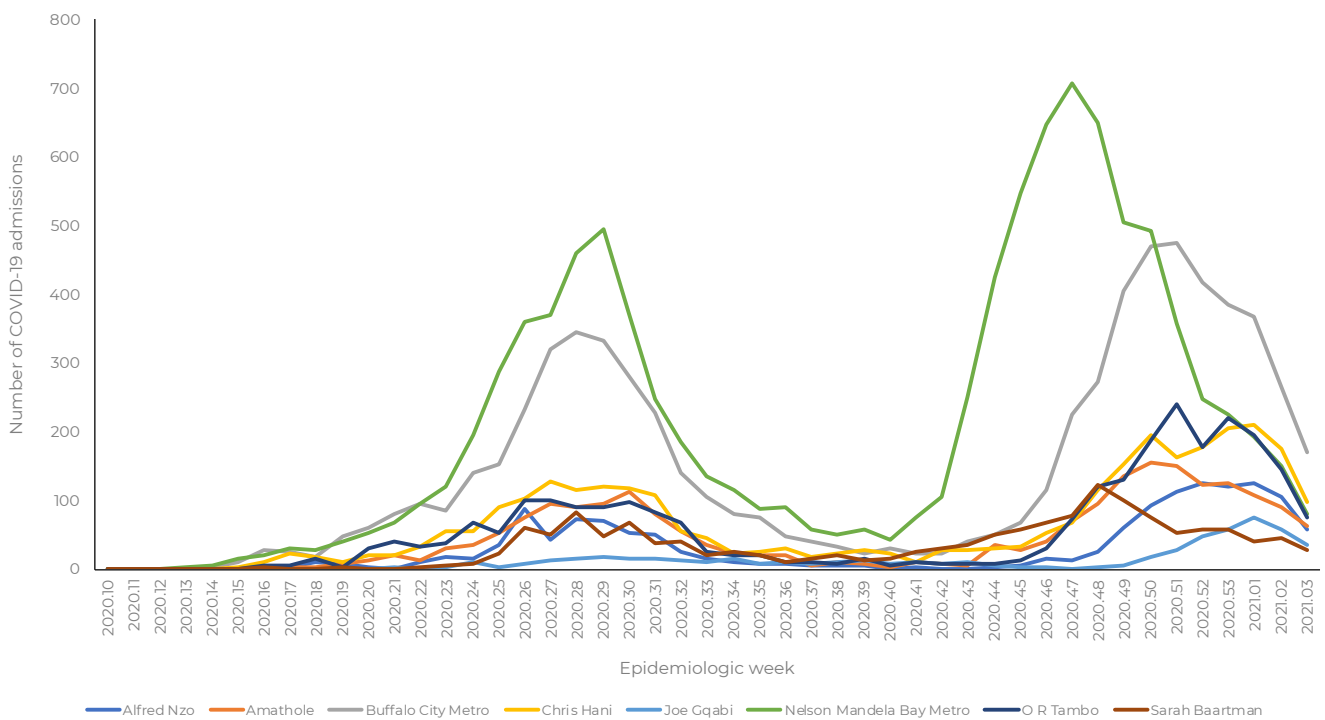


Figure 6. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-23 January 2021

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All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions and the highest incidence risk of new admissions was in Buffalo City Metro (Table 4).

Table 4: Number and percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Eastern Cape

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Alfred Nzo	1416	104	57	-45	9.4	1.1
Amathole	2143	90	62	-31	10.3	1.3
Buffalo City Metro	6819	266	171	-36	28.3	3.5
Chris Hani	3028	175	97	-45	16.1	2.2
Joe Gqabi	551	58	34	-41	5.6	1.6
Nelson Mandela Bay Metro	9734	149	79	-47	13.1	1.1
O R Tambo	2669	145	76	-48	12.6	0.8
Sarah Baartman	1485	35	31	-11	4.1	0.8

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The increase in deaths in Eastern Cape was predominantly in Nelson Mandela Bay Metro and Buffalo City Metro. The weekly deaths exceeded the numbers of deaths at the peak of the first wave in all districts (Figure 7). The numbers of deaths have decreased in Nelson Mandela Metro since week 47 2020, Sarah Baartman since week 48 2020 and in Buffalo City Metro since week 53 2020 and in all other districts in the first weeks of 2021.

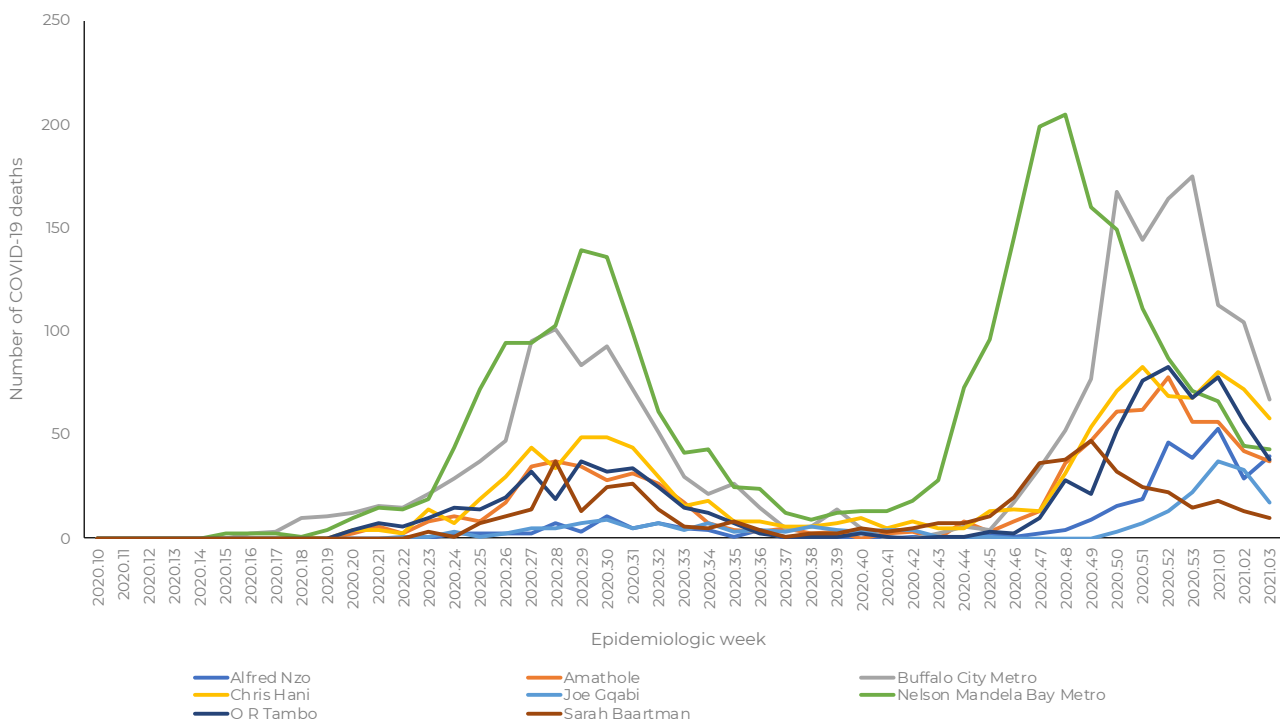


Figure 7. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-23 January 2021

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WESTERN CAPE

There was an increase in admissions reported in the Western Cape in both public and private sectors since week 43 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 8). Since week 1 2021, a decrease in admissions has been observed in both sectors

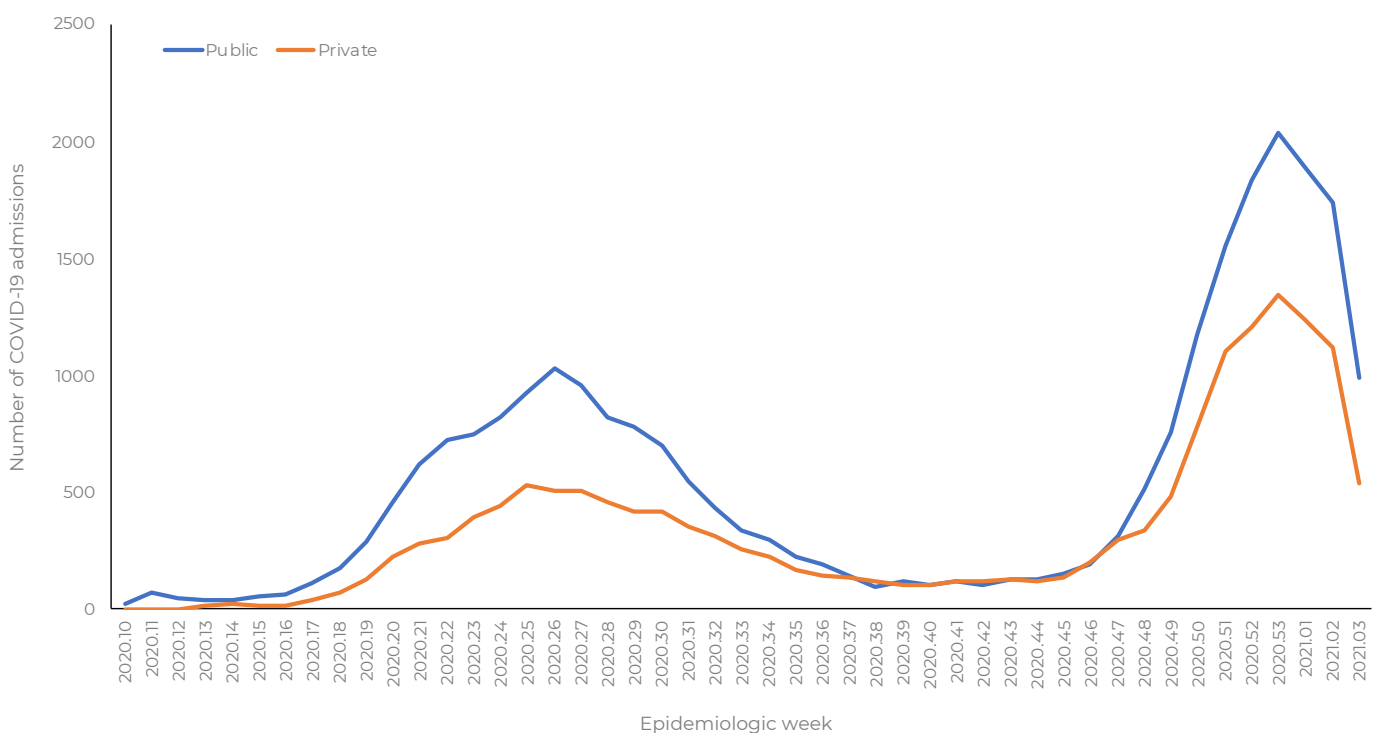


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-23 January 2021

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The increase in admissions in Western Cape began in Garden Route then City of Cape Town Metro and Cape Winelands, exceeding the weekly numbers of admissions at the peak of the first wave in all districts (Figure 9). Admissions have decreased in Garden Route since week 48 2020, in Cape Winelands and Overberg since week 52 2020, City of Cape Town and West Coast since week 53 2020 and all other districts in week 2 and week 3 of 2021.

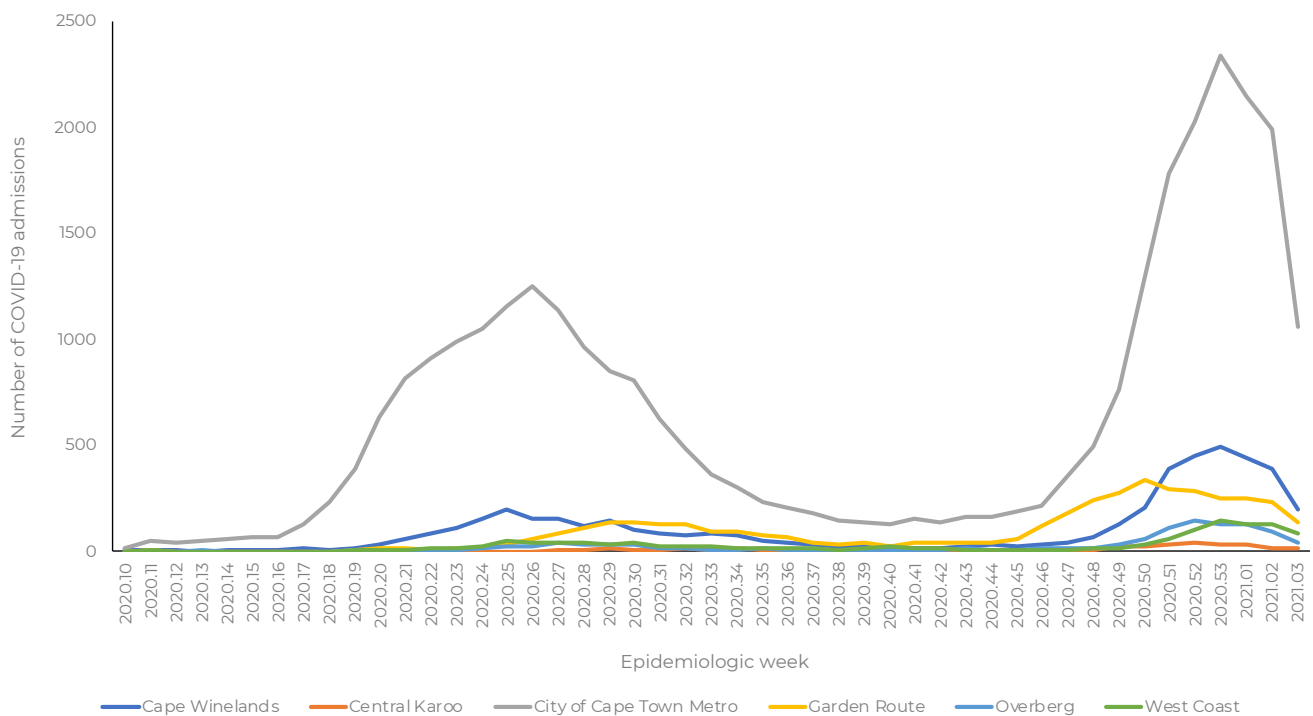


Figure 9: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-23 January 2021

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The highest proportion of new admissions was in City of Cape Town (Table 5).

Table 5: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Western Cape

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Cape Winelands	4885	390	198	-49	12.9	1.4
Central Karoo	365	19	15	-21	1.0	1.3
City of Cape Town Metro	29735	1992	1057	-47	68.8	1.5
Garden Route	4212	230	134	-42	8.7	1.4
Overberg	1157	95	43	-55	2.8	0.9
West Coast	1295	129	89	-31	5.8	1.3

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The increase in deaths in Western Cape was predominantly in City of Cape Town Metro, Garden Route and Cape Winelands, exceeding the weekly numbers of deaths at the peak of the first wave in all districts (Figure 10). The numbers of deaths in Garden Route has decreased since week 51 2020.

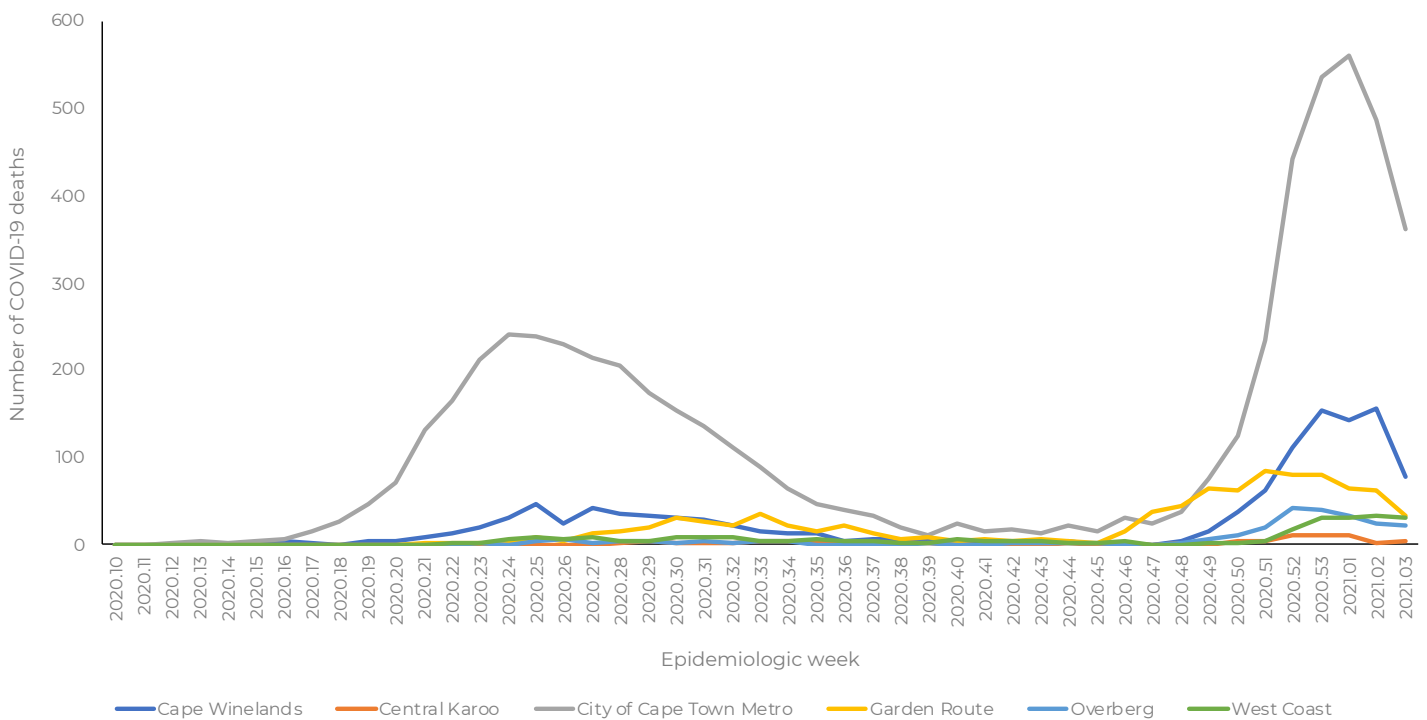


Figure 10: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-23 January 2021

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KWAZULU-NATAL

There has been an increase in admissions in KwaZulu-Natal in the private sector since week 46 2020 and in the public sector since week 47 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 11). Numbers have been decreasing in the private and public sector since week 2 2021. Decreases in the most recent week may reflect delays in data submission.

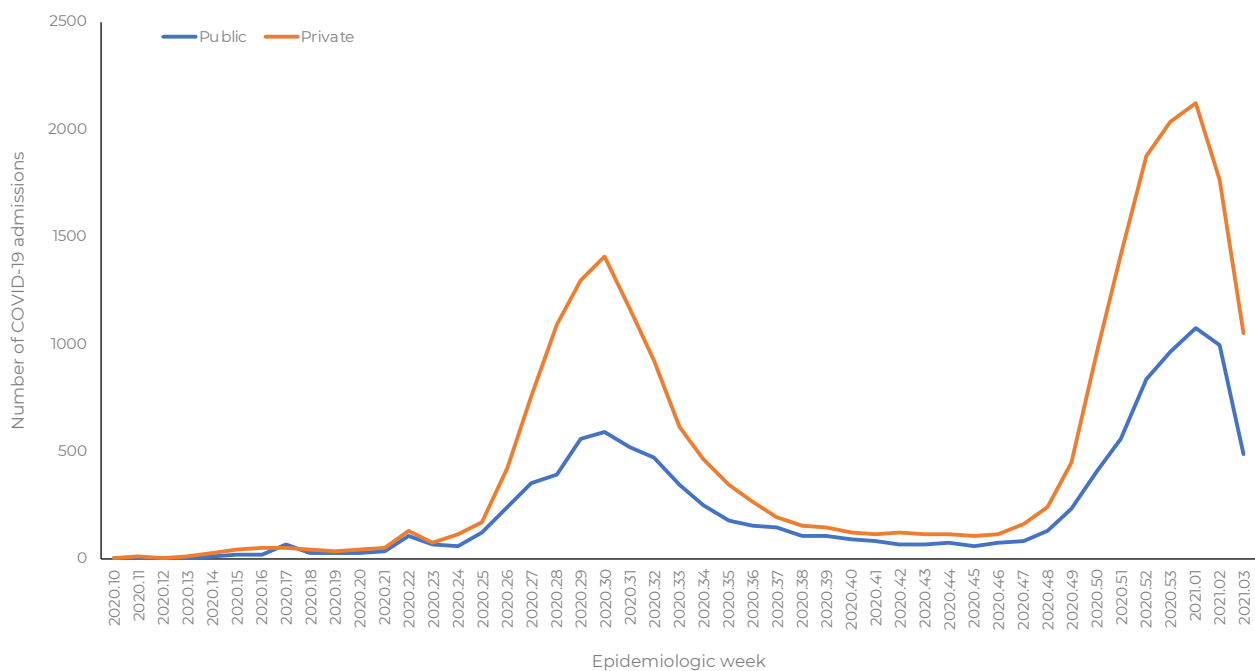


Figure 11: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-23 January 2021

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The increase in admissions in KwaZulu-Natal is predominantly in eThekweni Metro, uMgungundlovu and King Cetshwayo districts; and has exceeded the weekly numbers of admissions at the peak of the first wave in all districts except Amajuba (Figure 12). Admissions in eThekweni Metro have decreased since week 52 2020 and numbers appear to be decreasing in other districts since week 2 2021.

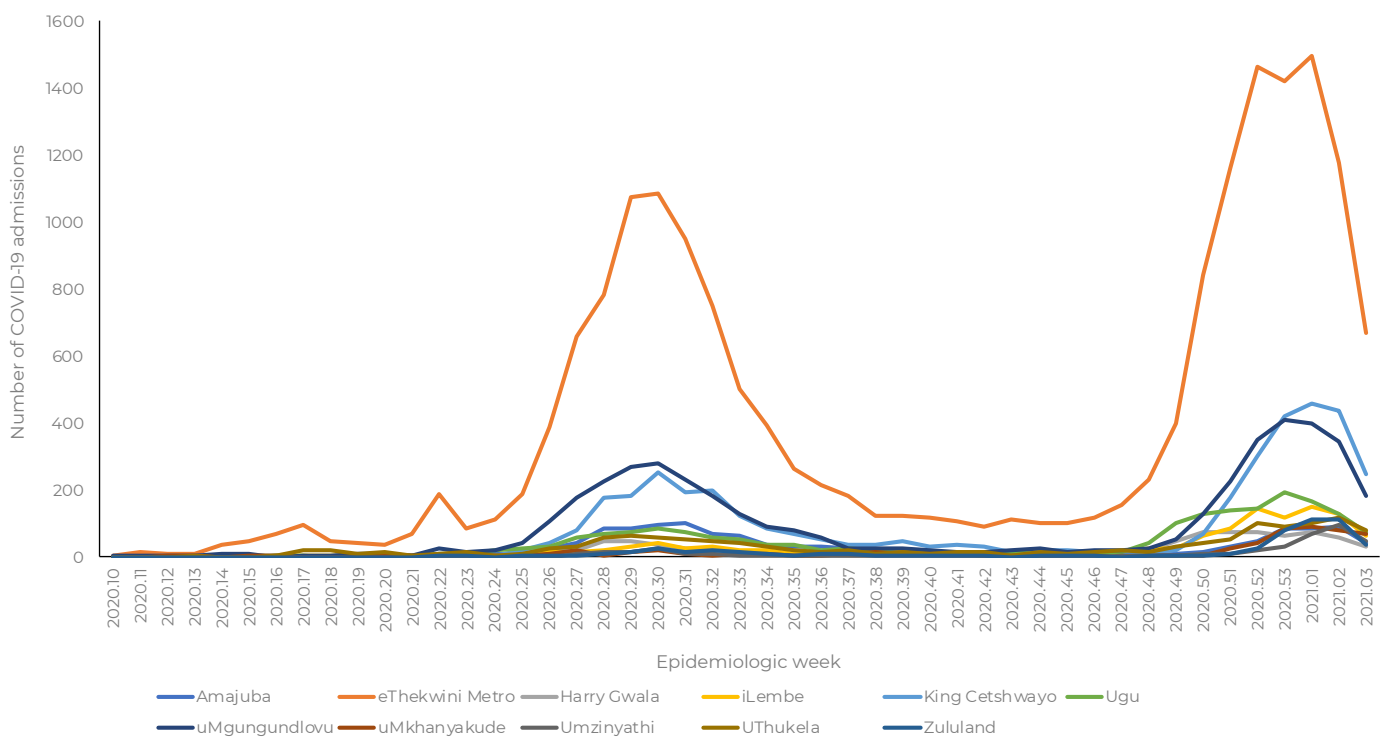


Figure 12: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-23 January 2021

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The highest proportion of new admissions was in eThekweni Metro (Table 6).

Table 6: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, KwaZulu-Natal

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Amajuba	1204	89	41	-54	2.7	0.5
eThekweni Metro	18254	1176	666	-43	43.3	1.1
Harry Gwala	795	60	30	-50	2.0	0.4
iLembe	1159	128	63	-51	4.1	0.6
King Cetshwayo	3916	434	249	-43	16.2	1.7
Ugu	1916	127	74	-42	4.8	0.6
uMgungundlovu	4303	344	182	-47	11.8	1.0
uMkhanyakude	594	77	66	-14	4.3	0.6
Umzinyathi	390	96	49	-49	3.2	0.6
UThukela	1297	117	80	-32	5.2	0.7
Zululand	529	112	38	-66	2.5	0.3

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The increase in deaths in KwaZulu-Natal was predominantly in eThekweni, and has exceeded the weekly numbers of deaths at the peak of the first wave in all districts (Figure 13).

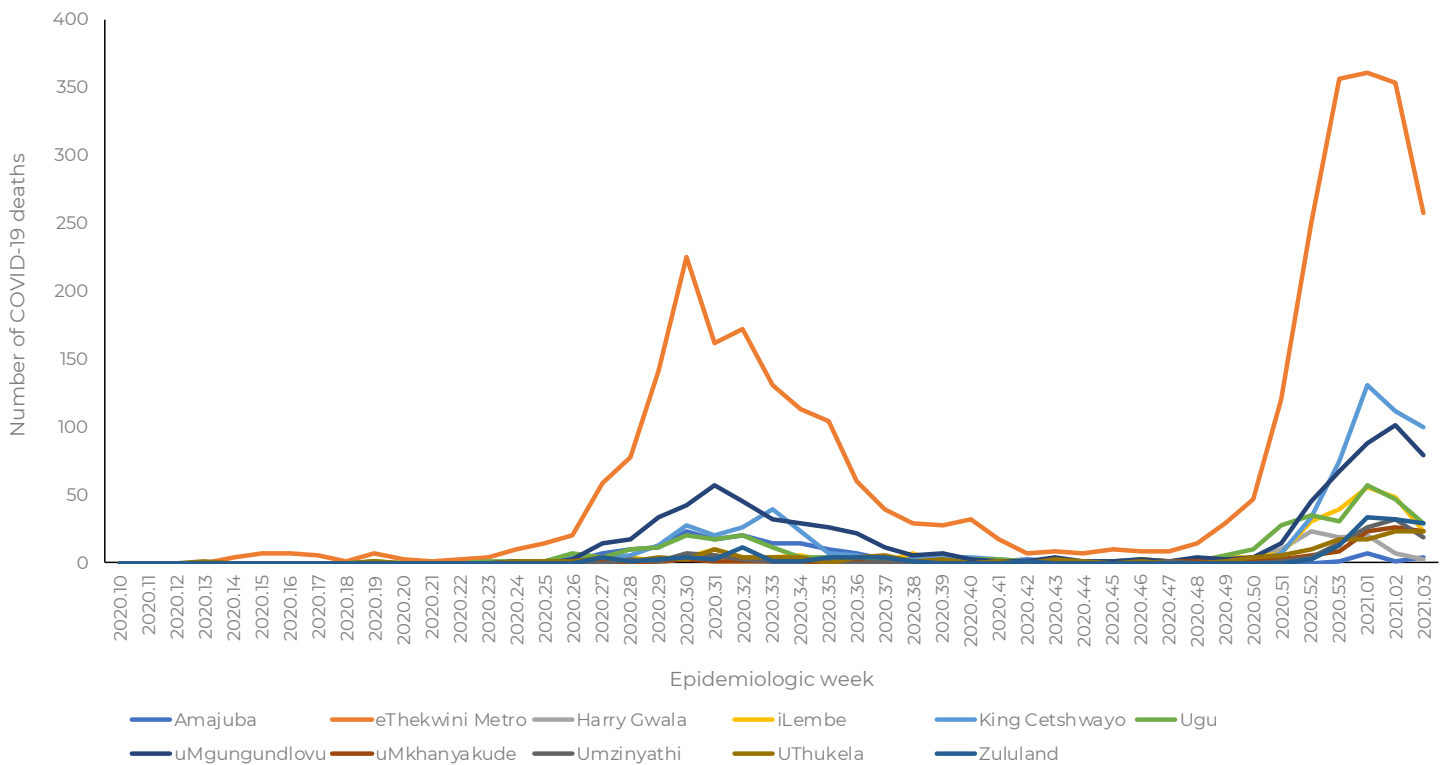


Figure 13: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-23 January 2021

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GAUTENG

There has been an increase in admissions reported in Gauteng in the private and public sector since week 48 2020, exceeding the weekly numbers of admissions at the peak of the first wave in the private and public sectors (Figure 14). Weekly numbers of admissions have been decreasing since week 2 2021. Decreases in the most recent week may reflect delays in data submission.

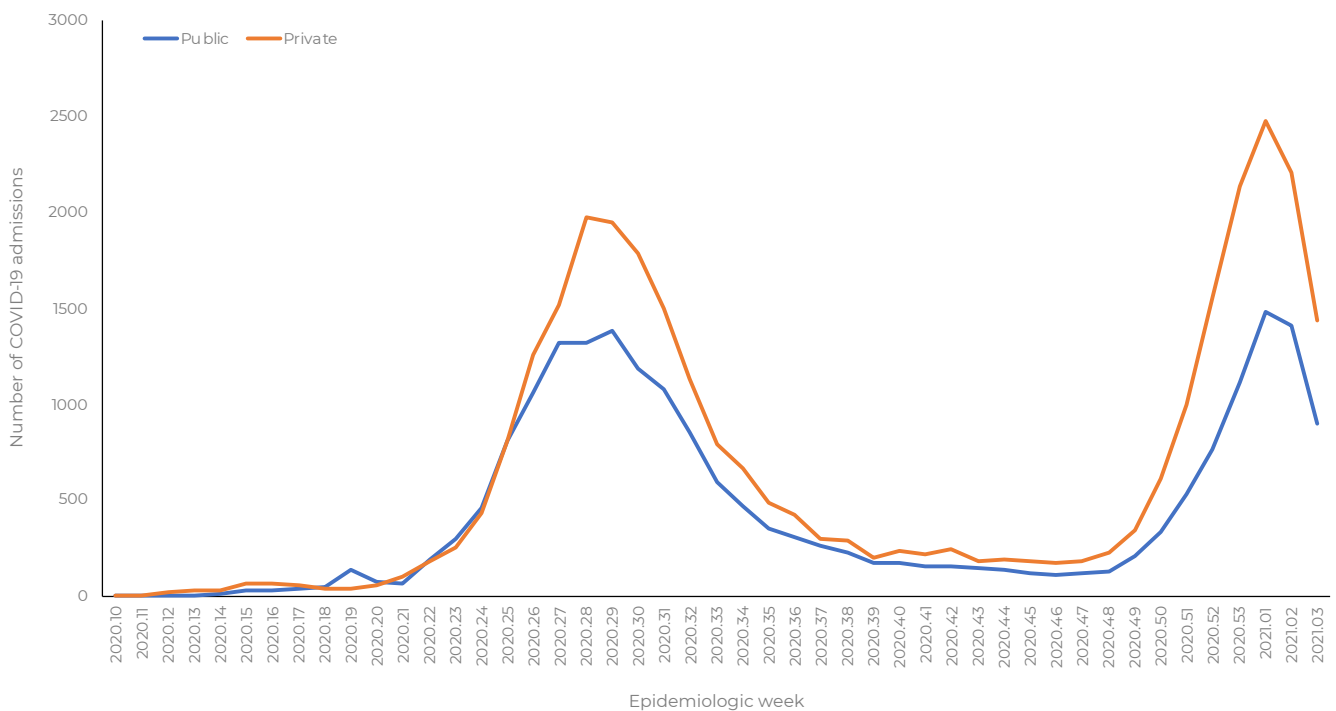


Figure 14: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-23 January 2021

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The increase in admissions in Gauteng is seen predominantly in City of Johannesburg and City of Tshwane; and has exceeded the weekly numbers of admissions at the peak of the first wave in City of Johannesburg Metro, City of Tshwane Metro and West Rand (Figure 15). Numbers are decreasing in all districts. Decreases in the most recent week may reflect delays in data submission.

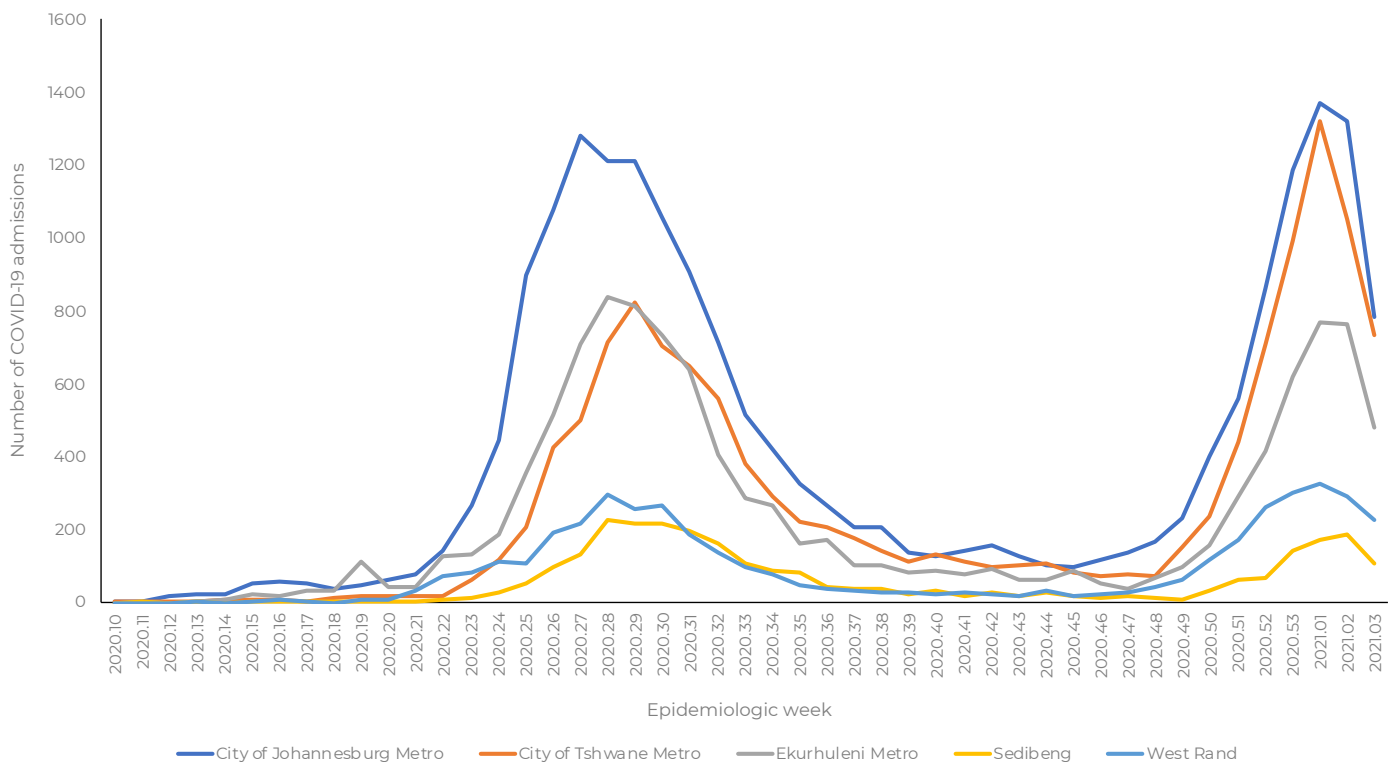


Figure 15: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-23 January 2021

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All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions were in City of Johannesburg and City of Tshwane Metros (Table 7).

Table 7: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Gauteng

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
City of Johannesburg Metro	19644	1321	782	-41	33.5	0.6
City of Tshwane Metro	12897	1051	736	-30	31.6	0.8
Ekurhuleni Metro	11166	766	478	-38	20.5	0.5
Sedibeng	2740	187	106	-43	4.5	0.5
West Rand	4316	290	229	-21	9.8	1.0

The number of deaths has increased in all Gauteng districts, and has exceeded the weekly numbers of deaths at the peak of the first wave in City of Tshwane Metro and West Rand (Figure 16).

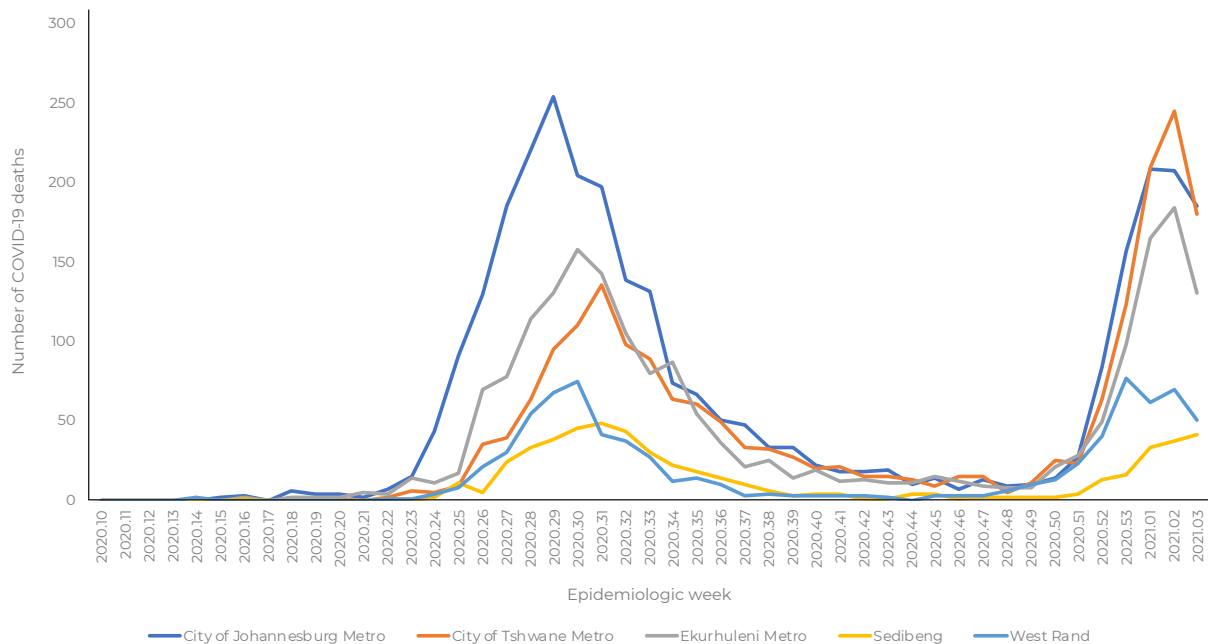


Figure 16: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-23 January 2021

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LIMPOPO

There has been an increase in admissions reported in Limpopo in the private sector since week 48 2020 and in the public sector since week 50 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 17). Numbers of admissions have been decreasing since week 2 2021 in the public sector. Decreases in the most recent week may reflect delays in data submission.

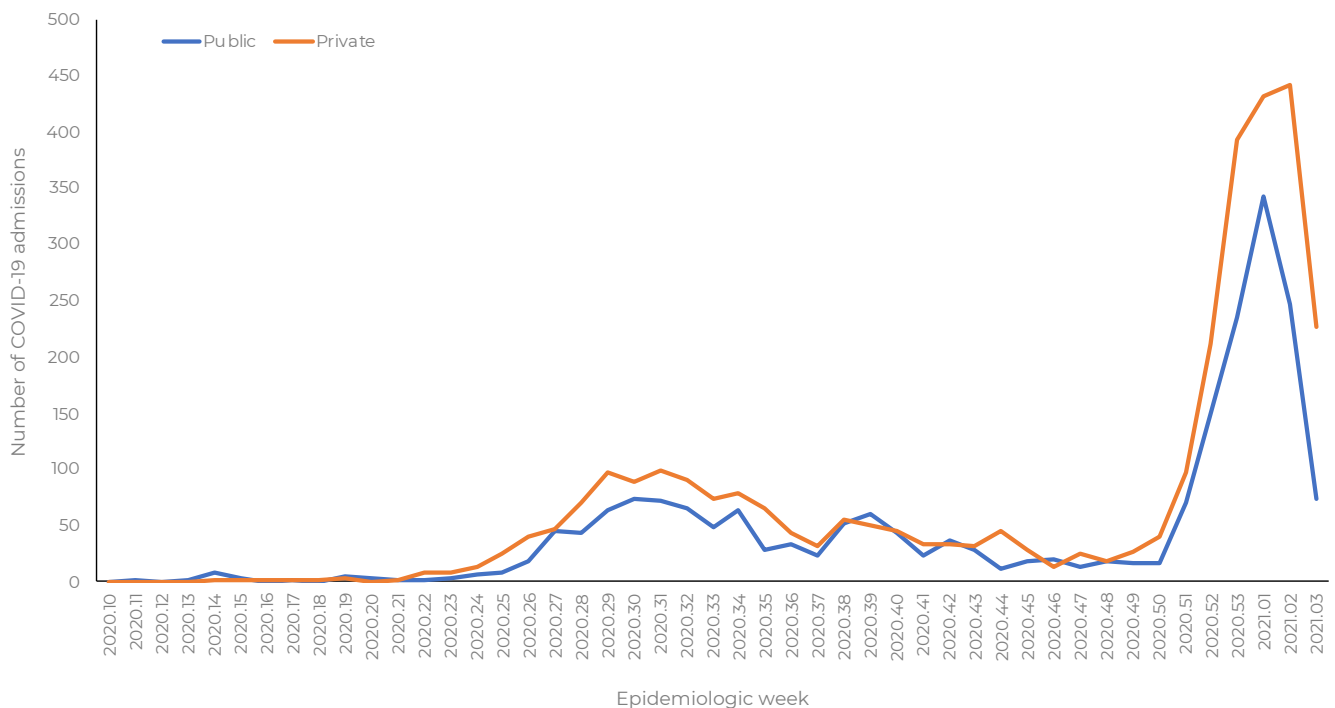


Figure 17: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-23 January 2021

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The increase in admissions in Limpopo is observed predominantly in Capricorn, exceeding the weekly numbers of admissions at the peak of the first wave in all districts (Figure 18). Decreases in the most recent week may reflect delays in data submission.

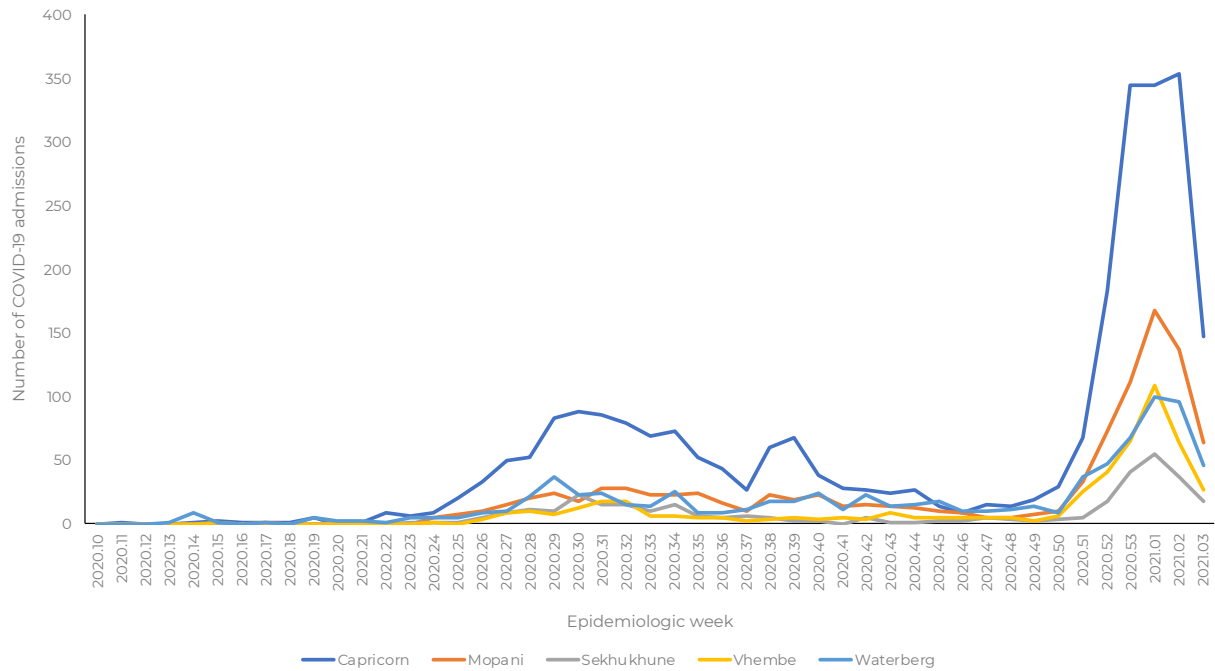


Figure 18: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-23 January 2021

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All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions was in Capricorn (Table 8).

Table 8: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Limpopo

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Capricorn	2593	353	147	-58	49.0	3.7
Mopani	1000	137	64	-53	21.3	1.8
Sekhukhune	335	37	17	-54	5.7	0.5
Vhembe	487	64	26	-59	8.7	0.6
Waterberg	824	96	46	-52	15.3	2.1

The increases in deaths have occurred in all districts but predominantly in Capricorn, exceeding the weekly numbers of deaths at the peak of the first wave in all districts (Figure 19).

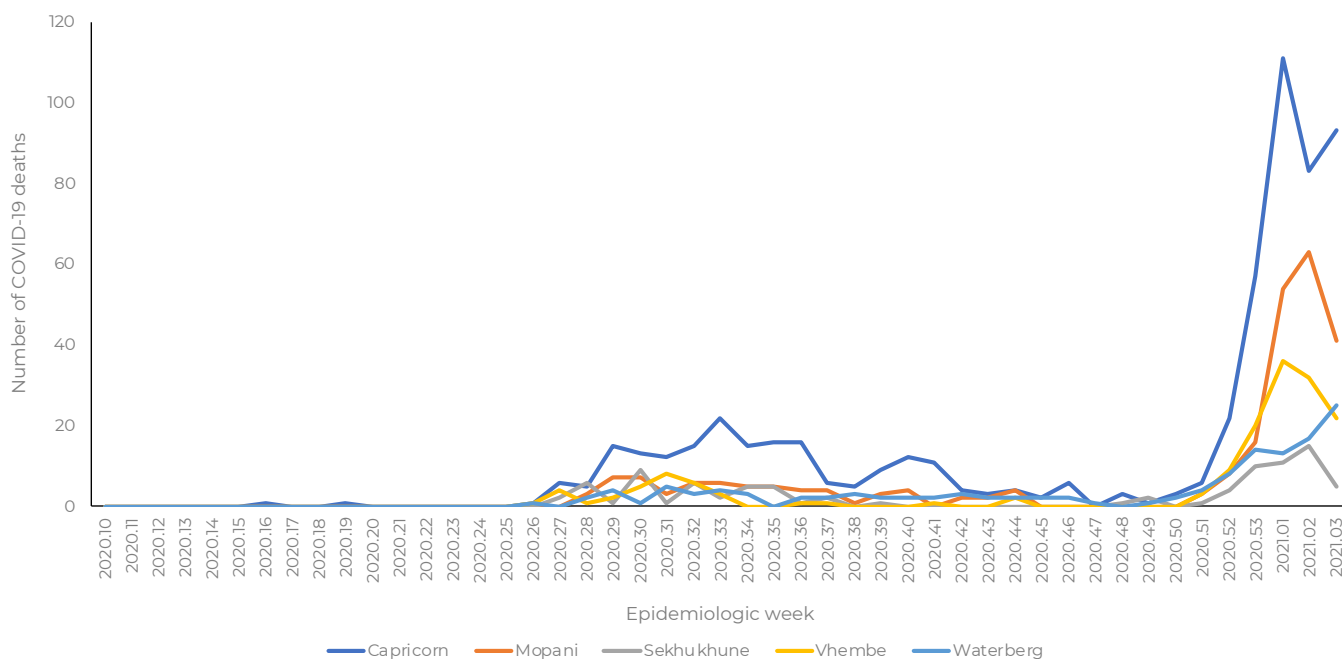


Figure 19: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-23 January 2021

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FREE STATE

There has been an increase in admissions reported in Free State in the private sector since week 48 2020 and in the public sector since week 50 2020 (Figure 20).

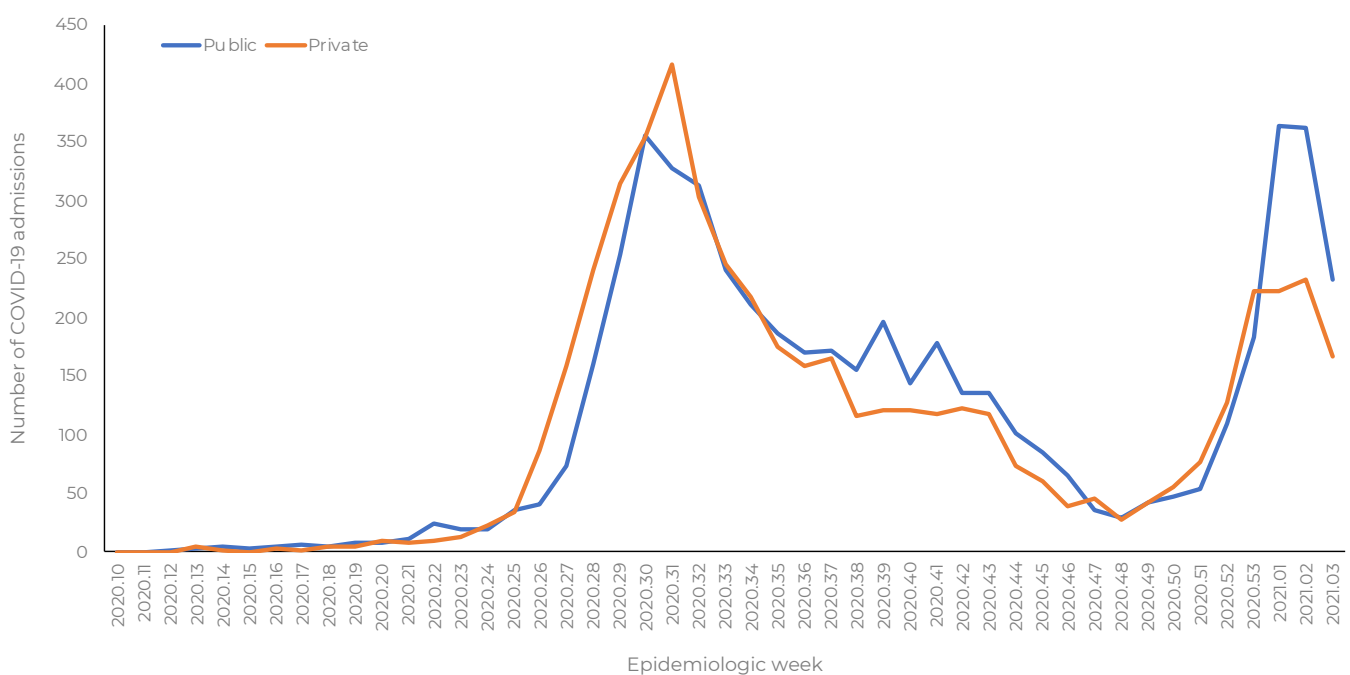


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-23 January 2021

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The increase in admissions in Free State is seen in all districts except Xhariep, exceeding the weekly numbers of admissions at the peak of the first wave in Fezile Dabi and Thabo Mofutsanyane (Figure 21).

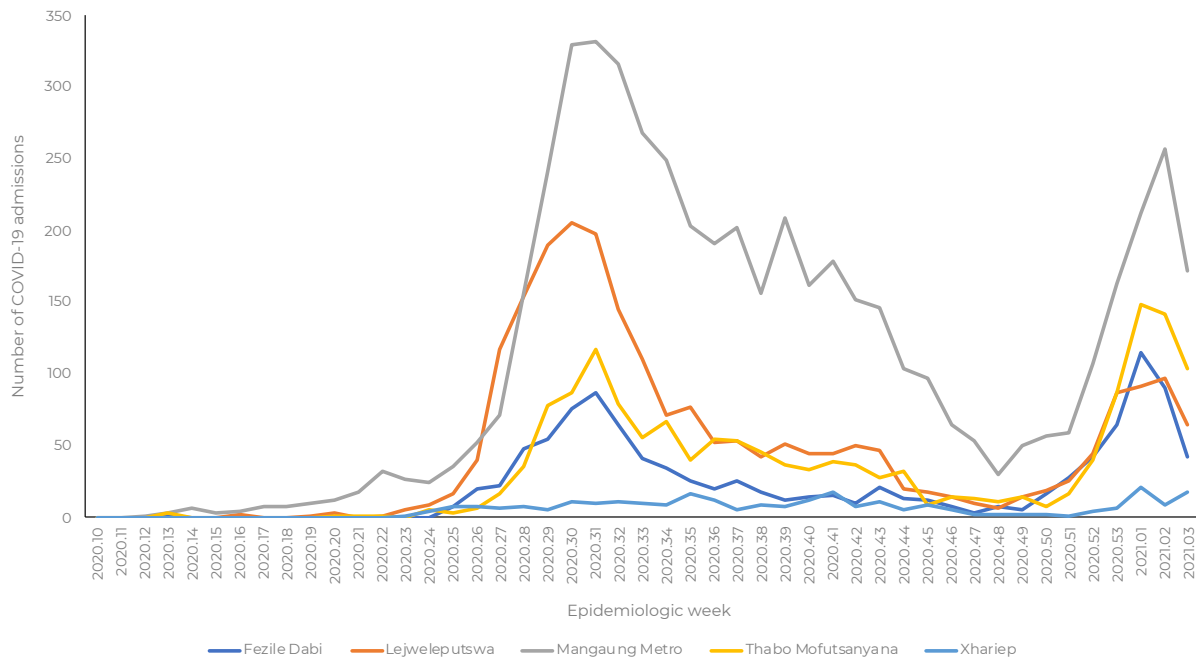


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-23 January 2021

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The number of COVID-19 admissions increased in one of five districts from week 2 to week 3 2021, Xhariep. The highest proportion of new admissions were in Mangaung Metro (Table 9).

Table 9: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Free State

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Fezile Dabi	1061	90	42	-53	10.5	2.1
Lejweleputswa	2236	97	64	-34	16.0	2.5
Mangaung Metro	5230	257	172	-33	43.1	4.9
Thabo Mofutsanyana	1560	142	104	-27	26.1	3.4
Xhariep	275	9	17	89	4.3	3.3

The increases in deaths have occurred in all districts, exceeding the weekly numbers of deaths at the peak of the first wave in Fezile Dabi (Figure 22).

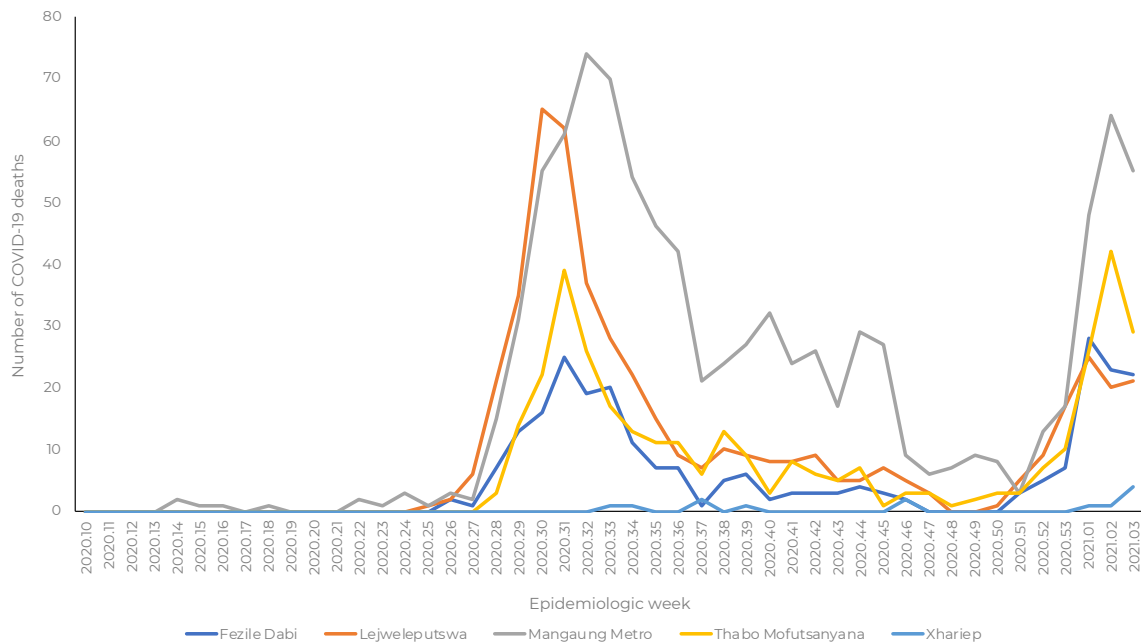


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-23 January 2021

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MPUMALANGA

There has been an increase in admissions reported in Mpumalanga in the private sector since week 48 2020 and the public sector since week 51 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 23).

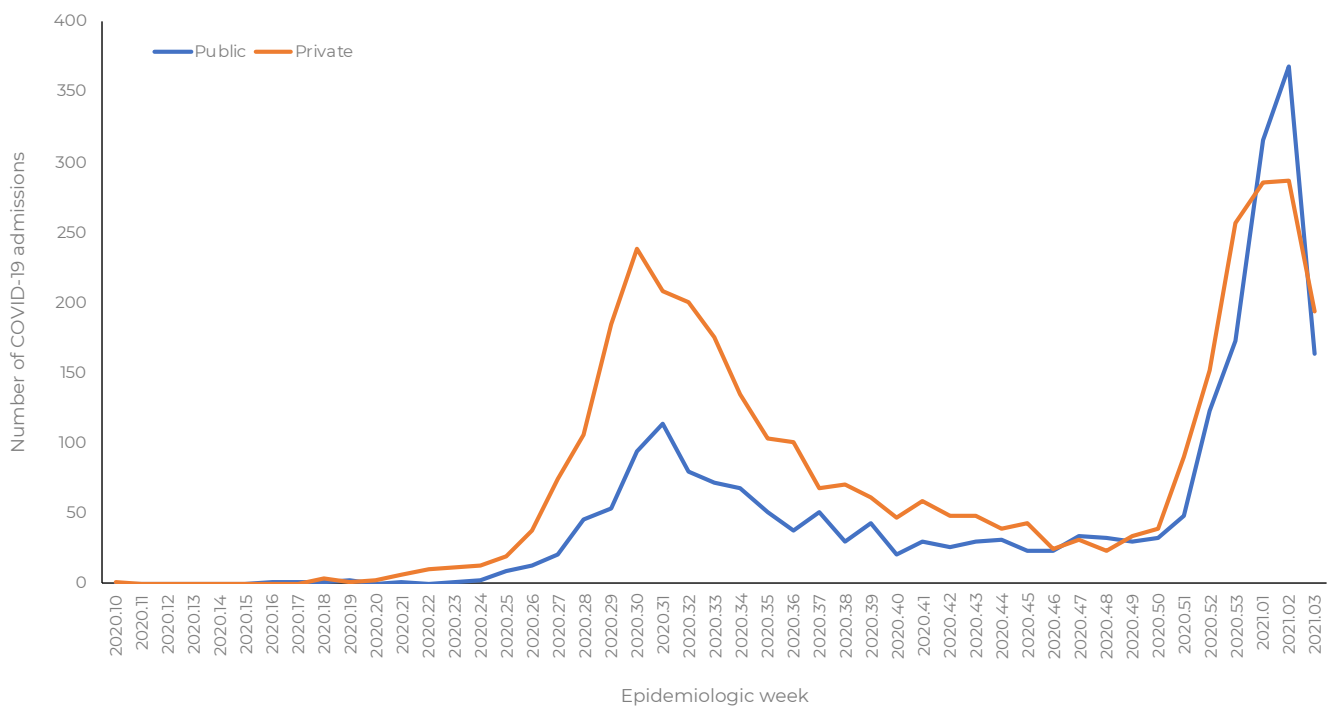


Figure 23: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-23 January 2021

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The increase in admissions in Mpumalanga is observed in all districts, exceeding the weekly numbers of admissions at the peak of the first wave in all districts (Figure 24).

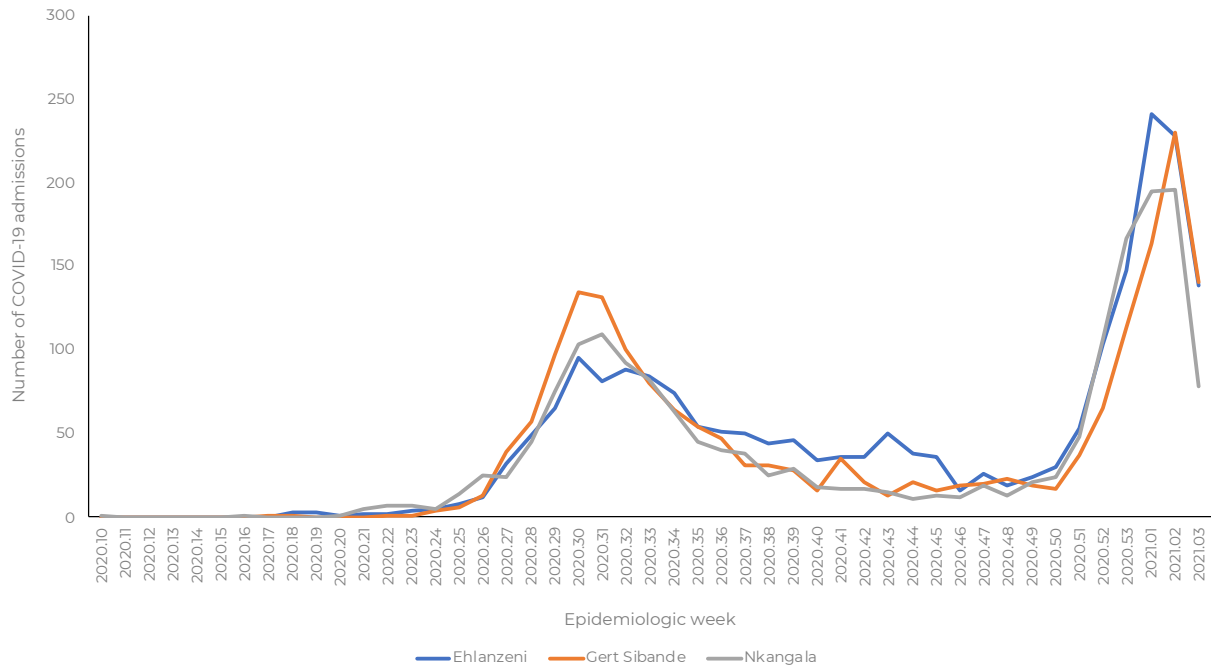


Figure 24: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions were in Gert Sibande (Table 10).

Table 10: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Mpumalanga

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Ehlanzeni	2109	228	138	-39	38.8	2.1
Gert Sibande	1889	230	140	-39	39.3	3.2
Nkangala	1806	196	78	-60	21.9	1.4

The increases in deaths is observed in all districts, exceeding the weekly numbers of deaths at the peak of the first wave in all districts (Figure 25).

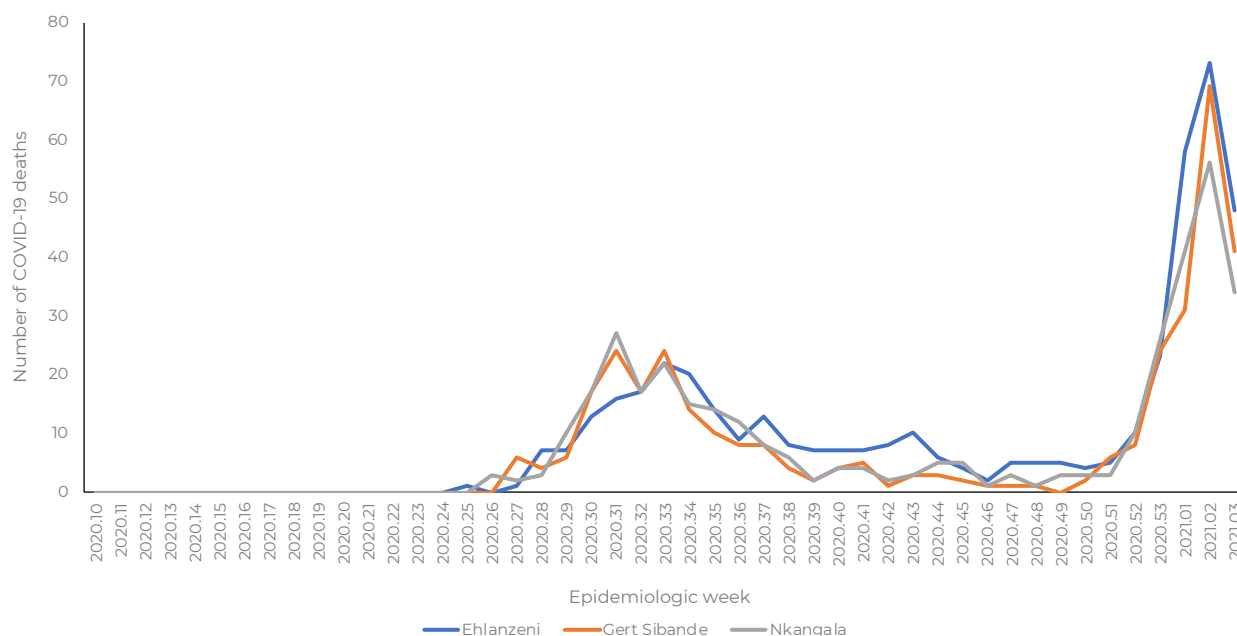


Figure 25: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

NORTH WEST

There has been an increase in admissions reported in North West in the private sector since week 48 2020 and in the public sector since week 49 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 26). Numbers of admissions are decreasing since week 2 2021.

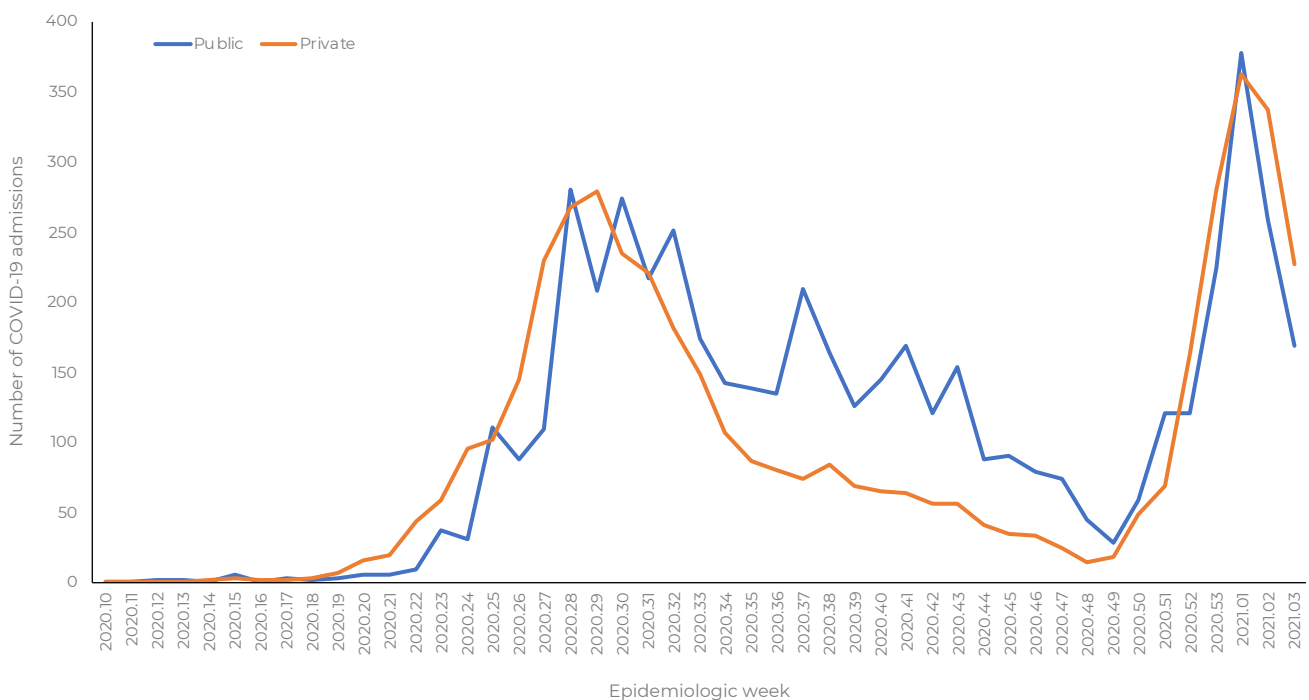


Figure 26: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

The increase in admissions in North West is observed predominantly in Dr Kenneth Kaunda and Bojanala Platinum, exceeding the weekly numbers of admissions at the peak of the first wave in all districts except Dr Kenneth Kaunda (Figure 27).

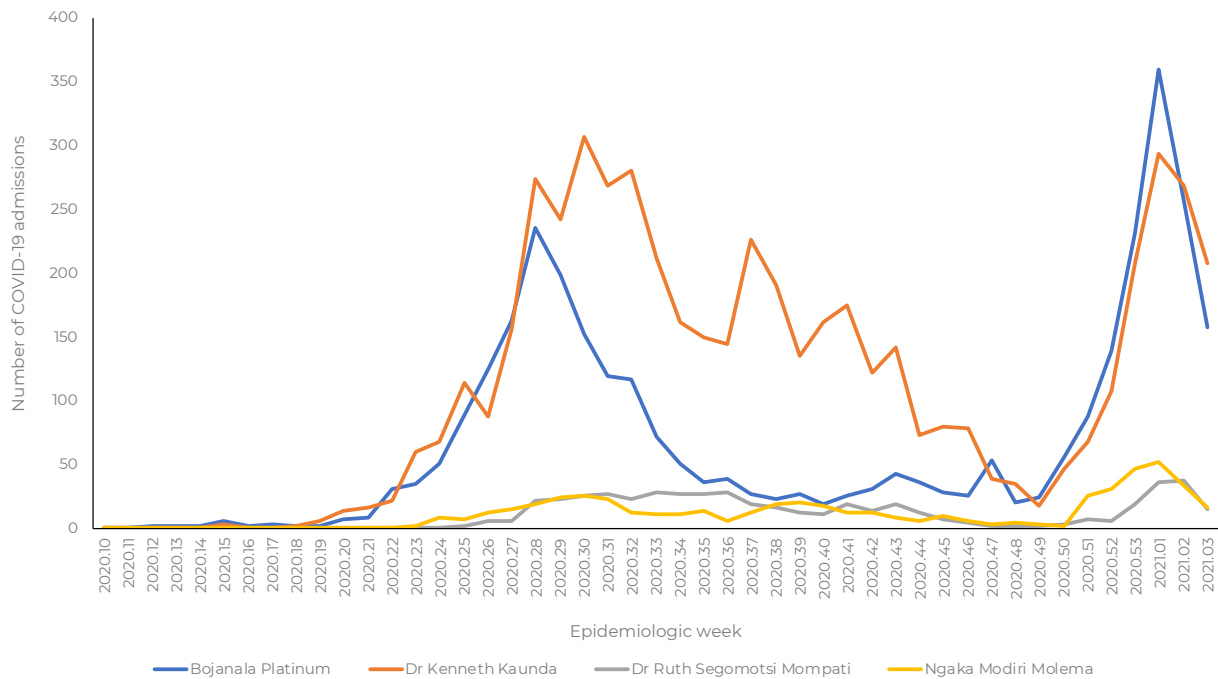


Figure 27: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions were in Dr Kenneth Kaunda and Bojanala Platinum (Table 11).

Table 11: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, North West

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Bojanala Platinum	3204	257	157	-39	39.6	2.1
Dr Kenneth Kaunda	5254	269	208	-23	52.5	6.6
Dr Ruth Segomotsi Mompoti	498	37	15	-59	3.8	0.8
Ngaka Modiri Molema	518	33	16	-52	4.0	0.4

The increases in deaths have occurred in all districts, exceeding the weekly numbers of deaths at the peak of the first wave in all districts (Figure 28).

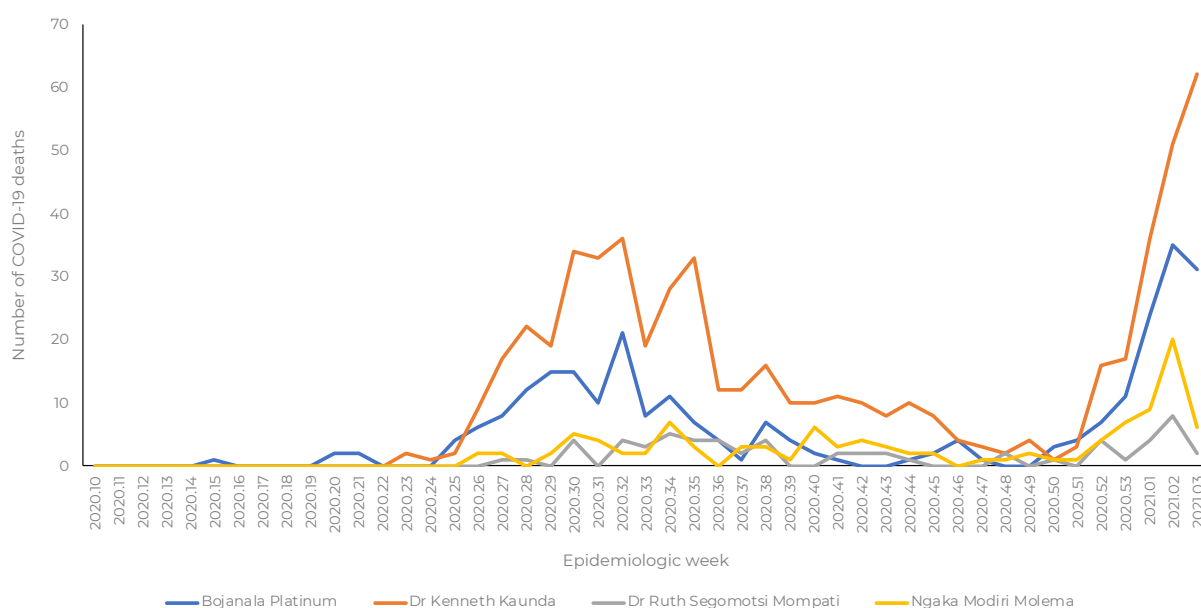


Figure 28: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

NORTHERN CAPE

There has been an increase in admissions reported in Northern Cape in the public and private sector since week 49 2020, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 29). Numbers of admissions have been decreasing since week 2 2021 in both sectors. Decreases in the most recent week may reflect delays in data submission.

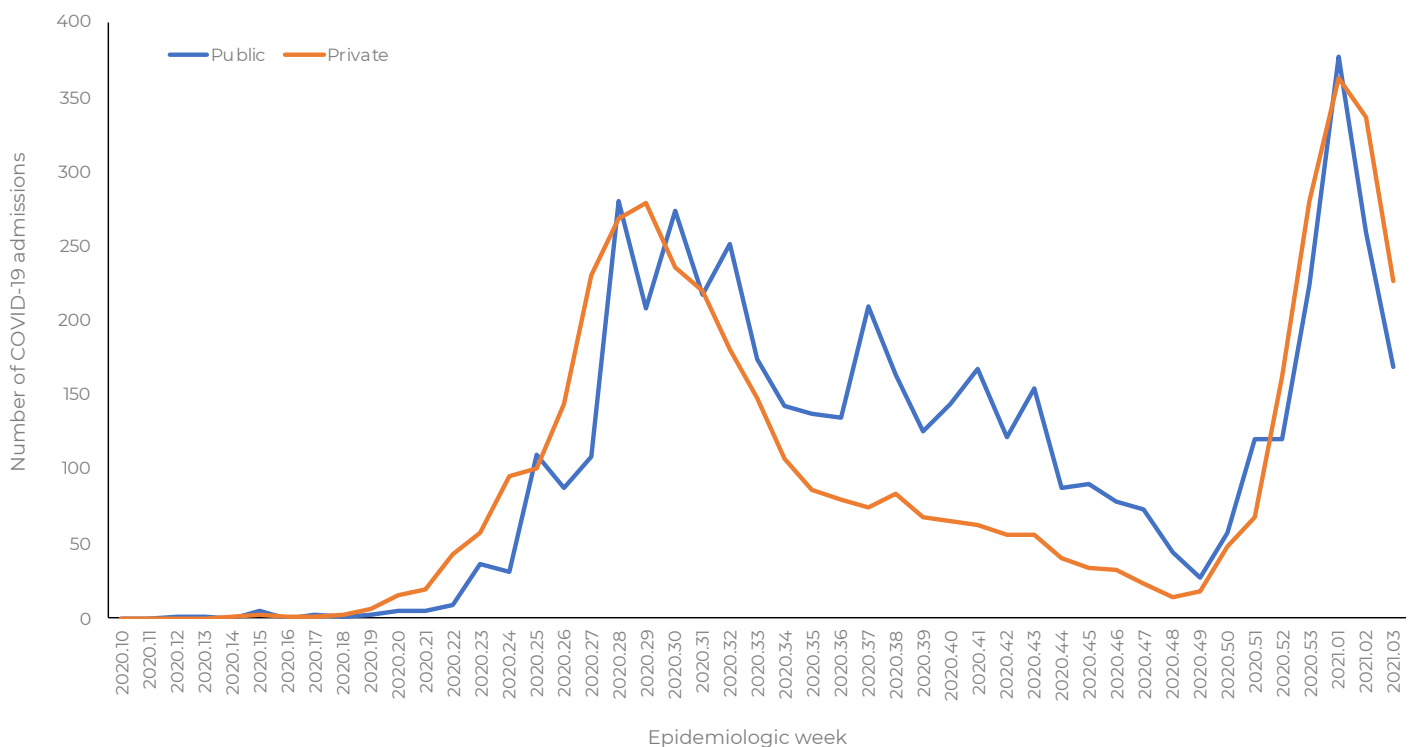


Figure 29: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020–23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

The increase in admissions in Northern Cape was observed across all districts; and exceeded the weekly number of admissions during the peak of the first wave in Pixley ka Seme, Namakwa and ZF Mgcawu districts (Figure 30). Decreases in the most recent week may reflect delays in data submission.

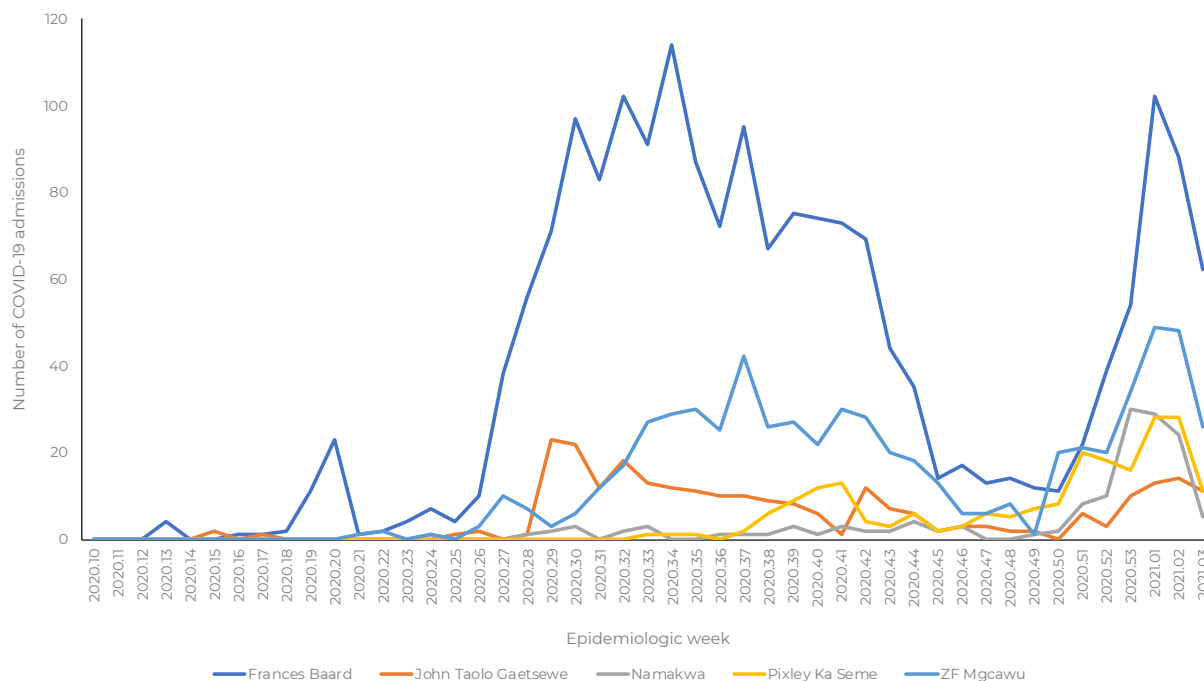


Figure 30: Number of reported COVID-19 admissions, by district and epidemiologic week, Northern Cape, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

All districts showed decrease in COVID-19 admission in week 2 and week 3 2021. The highest proportion of new admissions were in Frances Baard district (Table 12).

Table 12: Percentage change in COVID-19 admissions, epidemiologic week 2 to week 3 2021, by district, Northern Cape

District	Cumulative hospital admissions	Admissions Week 2	Admissions Week 3	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Frances Baard	1861	88	62	-30	53.9	13.0
John Taolo Gaetsewe	256	14	11	-21	9.6	3.5
Namakwa	144	24	5	-79	4.3	3.8
Pixley Ka Seme	210	28	11	-61	9.6	4.5
ZF Mgcau	638	48	26	-46	22.6	8.1

The increases in deaths have occurred in all districts except John Taolo Gaetsewe, exceeding the weekly numbers of deaths at the peak of the first wave in in Pixley ka Seme, Namakwa and ZF Mgcau districts (Figure 31).

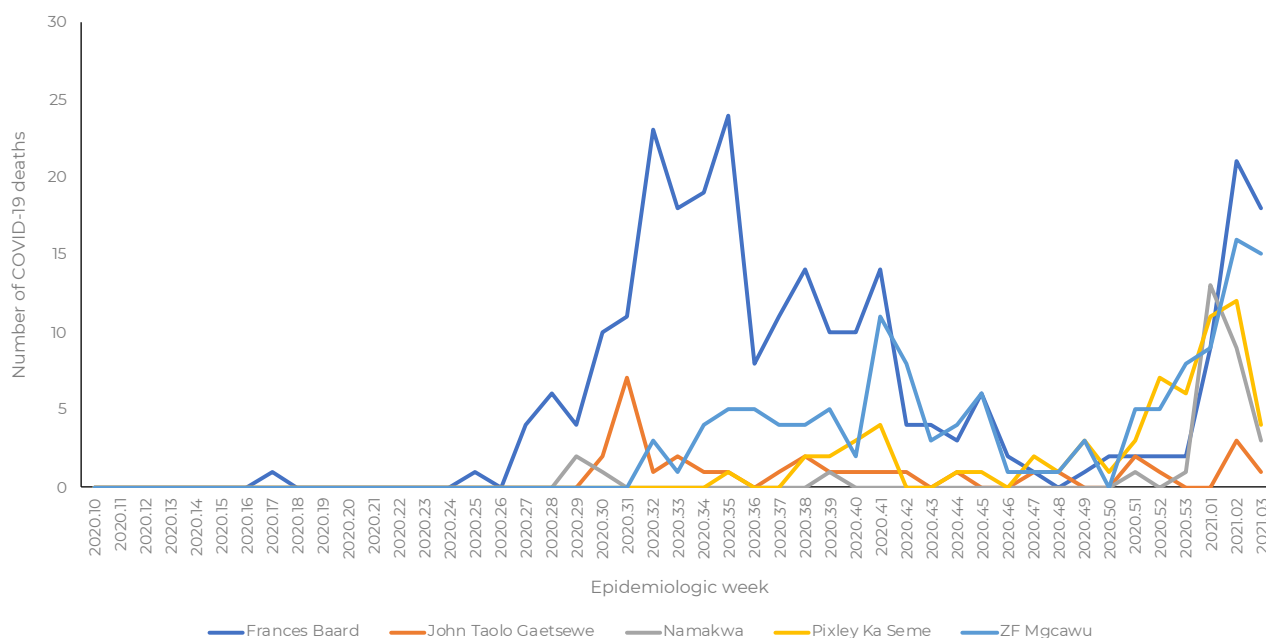


Figure 31: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-23 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

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 are in the process of recruiting 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.

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

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 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

APPENDIX

Table 13: Percentage average change in hospital admissions over 14 days, by district, South Africa, 2 January-23 January 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	1416	170.14	57	6.85	-45.19
	Amathole	2143	268.14	62	7.76	-31.11
	Buffalo City Metro	6819	851.44	171	21.35	-35.71
	Chris Hani	3028	416.13	97	13.33	-44.57
	Joe Gqabi	551	159.73	34	9.86	-41.38
	Nelson Mandela Bay Metro	9734	802.43	79	6.51	-46.98
	O R Tambo	2669	174.20	76	4.96	-47.59
	Sarah Baartman	1485	306.93	28	5.79	-37.78
Free State	Fezile Dabi	1061	207.99	42	8.23	-53.33
	Lejweleputswa	2236	342.10	64	9.79	-34.02
	Mangaung Metro	5230	600.51	172	19.75	-33.07
	Thabo Mofutsanyana	1560	203.97	104	13.60	-26.76
	Xhariep	275	212.45	17	13.13	88.89
Gauteng	City of Johannesburg Metro	19644	334.85	782	13.33	-40.80
	City of Tshwane Metro	12897	345.85	736	19.74	-29.97
	Ekurhuleni Metro	11166	280.40	478	12.00	-37.60
	Sedibeng	2740	286.75	106	11.09	-43.32
	West Rand	4316	452.06	229	23.99	-21.03
KwaZulu-Natal	Amajuba	1204	211.03	41	7.19	-53.93
	eThekweni Metro	18254	458.50	666	16.73	-43.37
	Harry Gwala	795	154.66	30	5.84	-50.00
	iLembe	1159	166.87	63	9.07	-50.78
	King Cetshwayo	3916	403.43	249	25.65	-42.63
	Ugu	1916	238.98	74	9.23	-41.73
	uMgungundlovu	4303	374.36	182	15.83	-47.09

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 3 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	594	86.47	66	9.61	-14.29
	Umzinyathi	390	68.71	49	8.63	-48.96
	UThukela	1297	181.60	80	11.20	-31.62
	Zululand	529	60.06	38	4.31	-66.07
Limpopo	Capricorn	2593	198.25	147	11.24	-58.36
	Mopani	1000	84.40	64	5.40	-53.28
	Sekhukhune	335	28.14	17	1.43	-54.05
	Vhembe	487	34.12	26	1.82	-59.38
	Waterberg	824	111.02	46	6.20	-52.08
Mpumalanga	Ehlanzeni	2109	115.33	138	7.55	-39.47
	Gert Sibande	1889	152.07	140	11.27	-39.13
	Nkangala	1806	112.25	78	4.85	-60.20
North West	Bojanala Platinum	3204	166.17	157	8.14	-38.91
	Dr Kenneth Kaunda	5254	658.63	208	26.07	-22.68
	Dr Ruth Segomotsi Mompoti	498	105.27	15	3.17	-59.46
	Ngaka Modiri Molema	518	56.93	16	1.76	-51.52
Northern Cape	Frances Baard	1861	448.53	62	14.94	-29.55
	John Taolo Gaetsewe	256	94.30	11	4.05	-21.43
	Namakwa	144	124.55	5	4.32	-79.17
	Pixley Ka Seme	210	99.58	11	5.22	-60.71
	ZF Mgcawu	638	227.94	26	9.29	-45.83
Western Cape	Cape Winelands	4885	518.98	198	21.04	-49.23
	Central Karoo	365	485.93	15	19.97	-21.05
	City of Cape Town Metro	29735	645.71	1057	22.95	-46.94
	Garden Route	4212	675.37	134	21.49	-41.74
	Overberg	1157	385.78	43	14.34	-54.74
	West Coast	1295	281.03	89	19.31	-31.01

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

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APPENDIX

Table 14: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-23 January 2021

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	1173	1414	7	2594	40	37	1	78
5-9	310	416	3	729	8	10	0	18
10-14	547	495	0	1042	11	11	0	22
15-19	1660	900	3	2563	42	38	0	80
20-24	2991	1464	2	4457	99	66	0	165
25-29	5300	2448	4	7752	218	132	0	350
30-34	7417	4296	0	11713	414	311	0	725
35-39	8376	5918	4	14298	614	535	0	1149
40-44	8172	7115	4	15291	777	815	1	1593
45-49	9379	8613	6	17998	1189	1247	1	2437
50-54	10847	9662	1	20510	1632	1693	0	3325
55-59	11621	10150	8	21779	2350	2281	1	4632
60-64	10192	9233	6	19431	2596	2769	2	5367
65-69	8194	7188	4	15386	2579	2453	0	5032
70-74	6487	5767	12	12266	2151	2169	4	4324
75-79	4708	3853	1	8562	1680	1583	0	3263
80-84	3337	2393	4	5734	1255	998	1	2254
85-89	1822	1132	1	2955	719	529	0	1248
90-94	789	396	1	1186	355	205	0	560
>=95	283	183	0	466	105	56	0	161
Unknown	937	851	102	1890	126	151	4	281
Total	104542	83887	173	188602	18960	18089	15	37064