

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

SOUTH AFRICA WEEK 2 2021



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

OVERVIEW

This report summarises data of COVID-19 cases admitted to DATCOV hospital surveillance sites in all provinces. The report is based on data collected from 5 March 2020 to 16 January 2021.

HIGHLIGHTS

- As of 16 January 2021, 175 739 COVID-19 admissions and 33 336 in-hospital deaths were reported from 628 facilities (378 public-sector and 250 private-sector) in all nine provinces of South Africa. DATCOV coverage is 100% of public and private hospitals that have had COVID-19 admissions. New hospitals that have enrolled continue to capture historical admissions.
- 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 1 and week 2, the number of COVID-19 admissions decreased in all provinces, which may reflect delays in data submission. Admissions and deaths have decreased in Eastern Cape since week 50; and in Western Cape since week 53.

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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 16 January 2021, a total of 628 facilities submitted data on hospitalised COVID-19 cases, 378 from public sector and 250 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 2020-16 January 2021

Name of province	Public Sector	Private Sector
Eastern Cape	84	18
Free State	35	20
Gauteng	38	90
KwaZulu-Natal	63	45
Limpopo	41	7
Mpumalanga	29	9
North West	13	12
Northern Cape	16	8
Western Cape	59	41
South Africa	378	250

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RESULTS

Epidemiological and geographic trends in admissions

From 5 March 2020 to 16 January 2021, a total of 175,739 COVID-19 admissions were reported from 628 facilities in all nine provinces of South Africa. There has been a resurgence in both public and private sector since week 40; the weekly numbers of admissions have surpassed the numbers during the peak of the first wave in both sectors (Figure 1). Decreases in the most recent week may reflect delays in data submission.

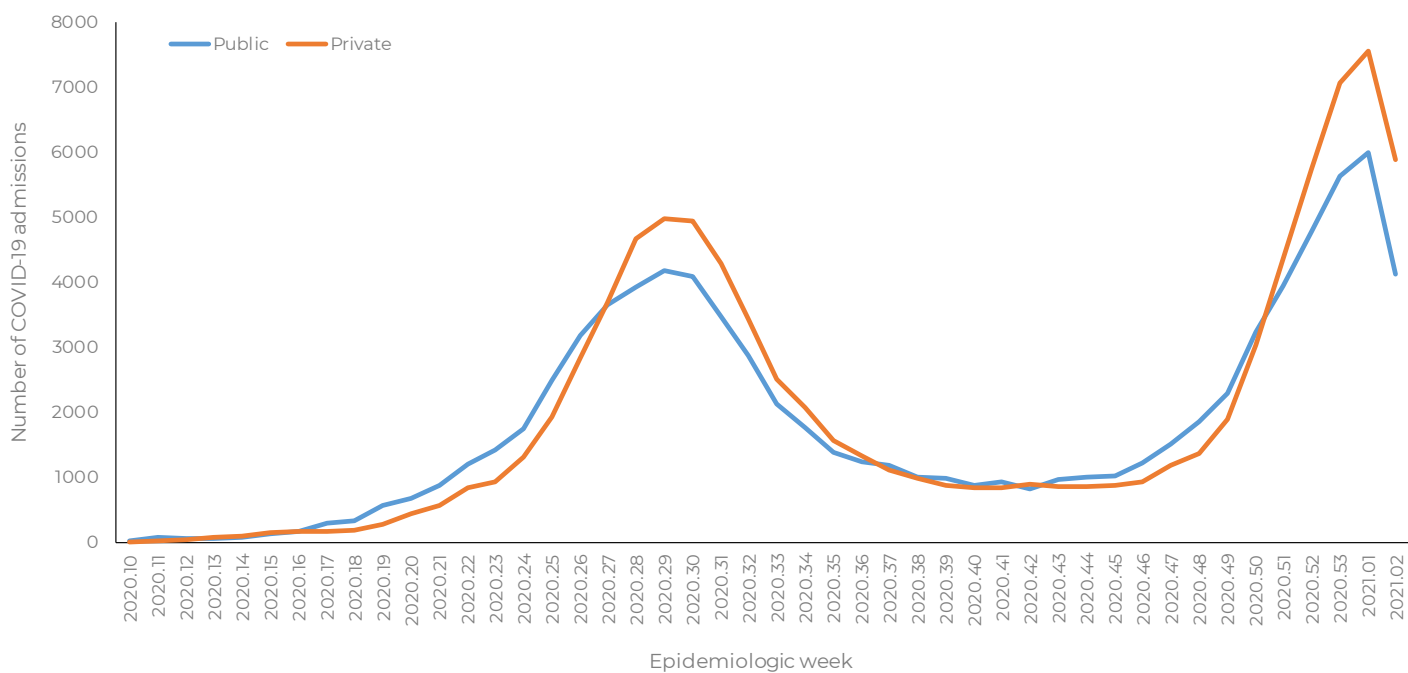


Figure 1. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-16 January 2021, n=175739

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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 (now decreasing), Western Cape since week 43 (decreasing for the past two weeks), KwaZulu-Natal since week 46, Gauteng since week 48 and all other provinces since week 48 or 49 (Figure 2). The weekly numbers of admissions in all provinces except Free State have surpassed the numbers during the peak of the first wave.

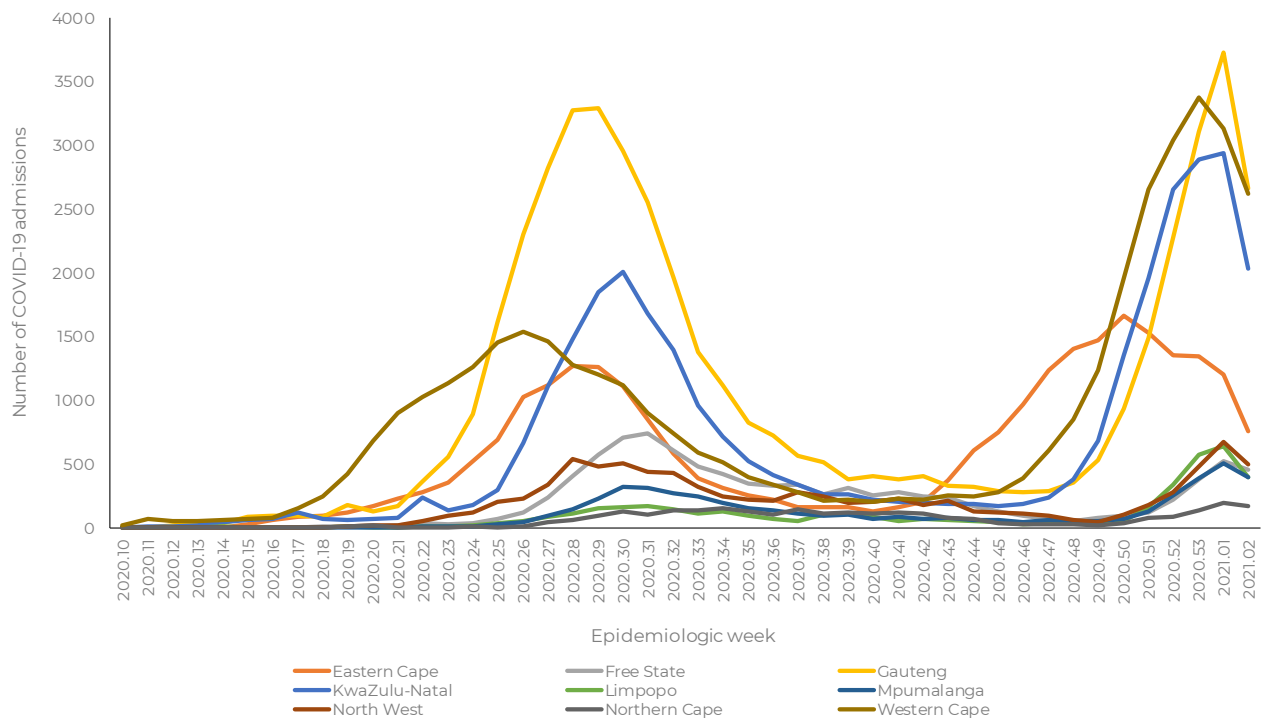


Figure 2. Number of reported COVID-19 admissions, by province and epidemiologic week of diagnosis, South Africa, 5 March 2020-16 January 2021, n=175739

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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; the weekly numbers of deaths have 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 is higher.

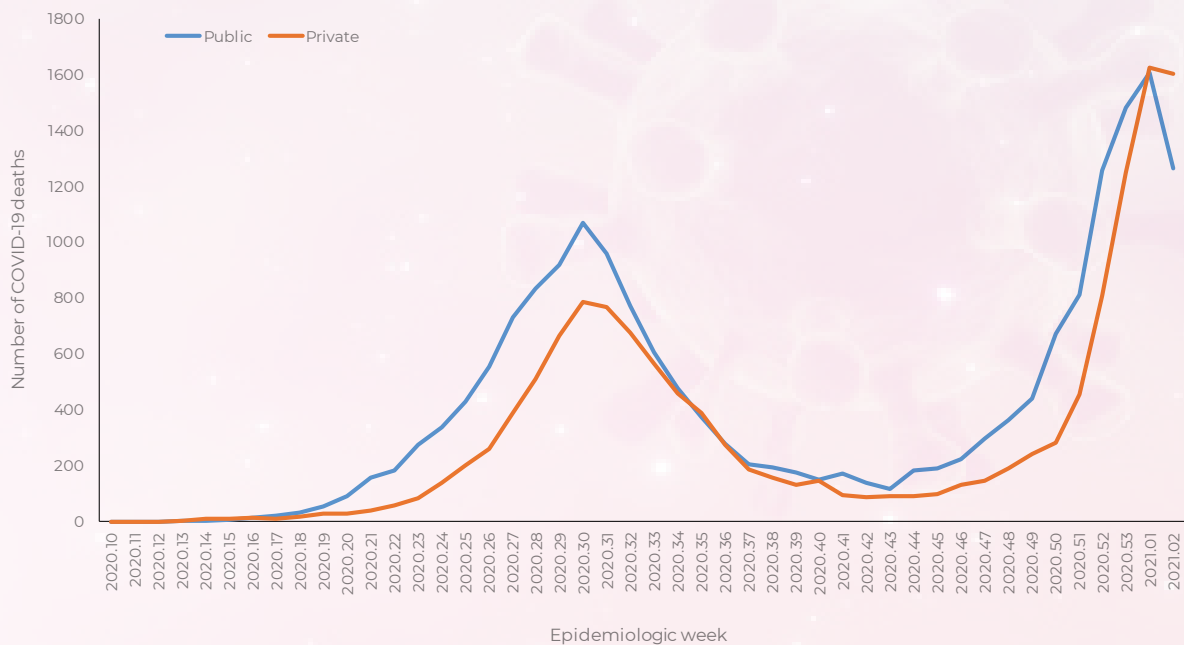


Figure 3. Number of in-hospital COVID-19 in-hospital deaths reported per week by health sector and epidemiologic week, South Africa, 5 March 2020-16 January 2021, n=33336

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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 have surpassed the numbers during the peak of the first wave.

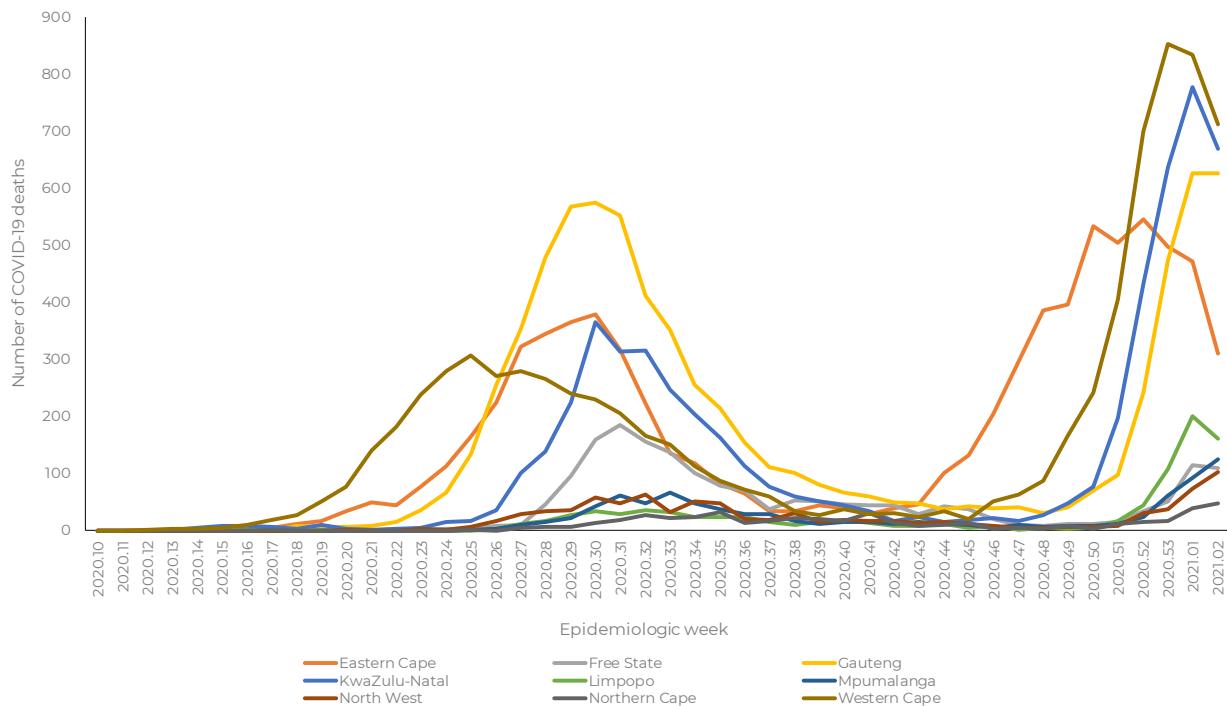


Figure 4. Number of reported COVID-19 in-hospital deaths, by province and epidemiologic week of death, South Africa, 5 March 2020-16 January 2021, n=33336

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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 2020-16 January 2021

Province	Provincial Population mid 2020*	Cumulative admissions	Cumulative Admissions / 100,000	Cumulative deaths	Cumulative deaths / 100,000
Eastern Cape	6734001	26710	396.6	7733	114.8
Free State	2928903	9596	327.6	1816	62.0
Gauteng	15488137	46,842	302.4	7331	47.3
KwaZulu-Natal	11531628	31637	274.3	5532	48.0
Limpopo	5852553	4371	74.7	908	15.5
Mpumalanga	4679786	4961	106.0	860	18.4
North West	4108816	8,851	215.4	875	21.3
Northern Cape	1292786	2,933	226.9	460	35.6
Western Cape	7005741	39,850	568.8	7811	111.5
South Africa	59622350	175,751	294.8	33,326	55.9

*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 1 to week 2. The highest proportion of new admissions were in Gauteng, Western Cape and KwaZulu-Natal (Table 3). Decreases in the most recent week may reflect delays in data submission. There were 6 of 52 (12%) 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 1 to week 2, 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 1	Week 2*			
Eastern Cape	1206	759	-37	7.6	11.3
Free State	524	457	-13	4.6	15.6
Gauteng	3725	2666	-28	26.6	17.2
KwaZulu-Natal	2936	2031	-31	20.3	17.6
Limpopo	641	394	-39	3.9	6.7
Mpumalanga	503	407	-19	4.1	8.7
North West	674	496	-26	5.0	12.1
Northern Cape	198	176	-11	1.8	13.6
Western Cape	3134	2620	-16	26.2	37.4
South Africa	13,541	10,006	-26	100,0	16.8

* 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, in public and private sectors, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors. Since week 50, a decrease in admissions has been observed in both sectors (Figure 5).

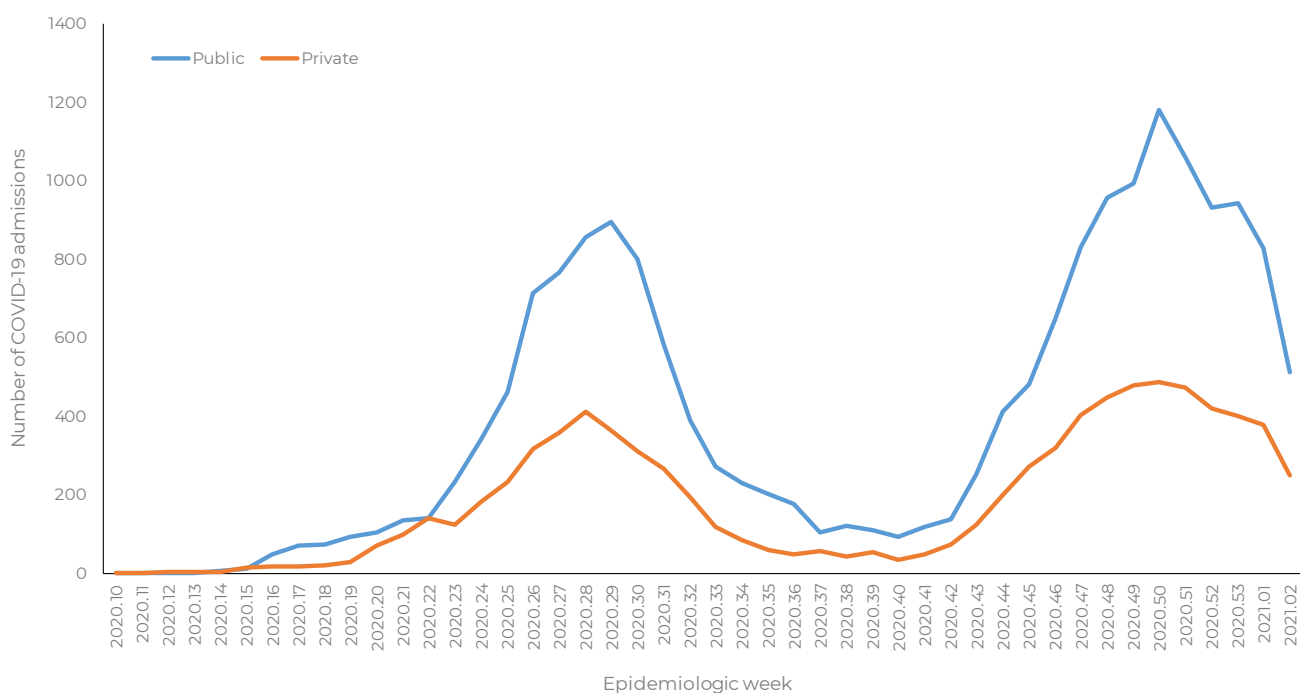


Figure 5: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-16 January 2021

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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, in Sarah Baartman since week 48 and in Buffalo City since week 51 and also in all other districts in the past two weeks.

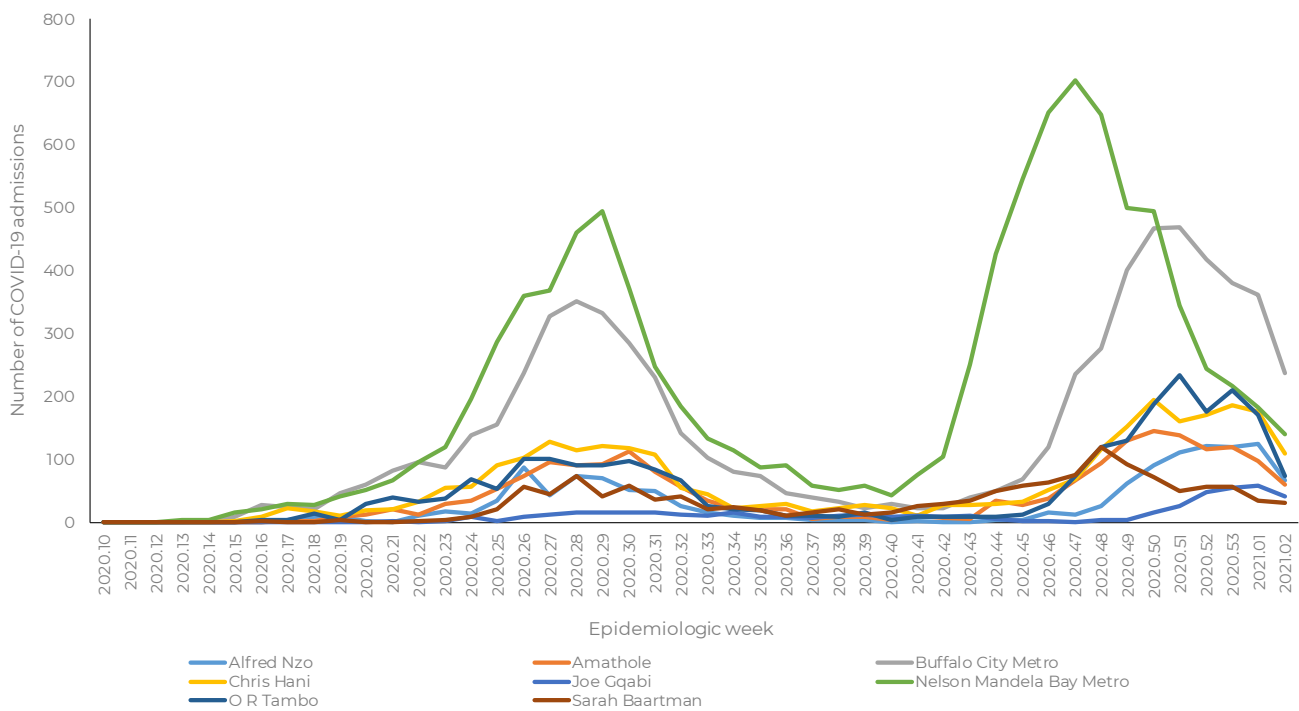


Figure 6. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-16 January 2021

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All districts showed decrease in COVID-19 admission in week 1 and week 2. 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 1 to week 2, by district, Eastern Cape

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Alfred Nzo	1311	124	66	-47	8.7	1.0
Amathole	1991	98	60	-39	7.9	1.0
Buffalo City Metro	6653	362	237	-35	31.2	3.9
Chris Hani	2808	176	109	-38	14.4	2.0
Joe Gqabi	480	59	42	-29	5.5	1.6
Nelson Mandela Bay Metro	9609	182	140	-23	18.4	1.5
O R Tambo	2476	170	74	-56	9.7	0.6
Sarah Baartman	1382	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 Bay Metro since week 47 and Sarah Baartman since week 48 and in Buffalo City Metro since week 53.

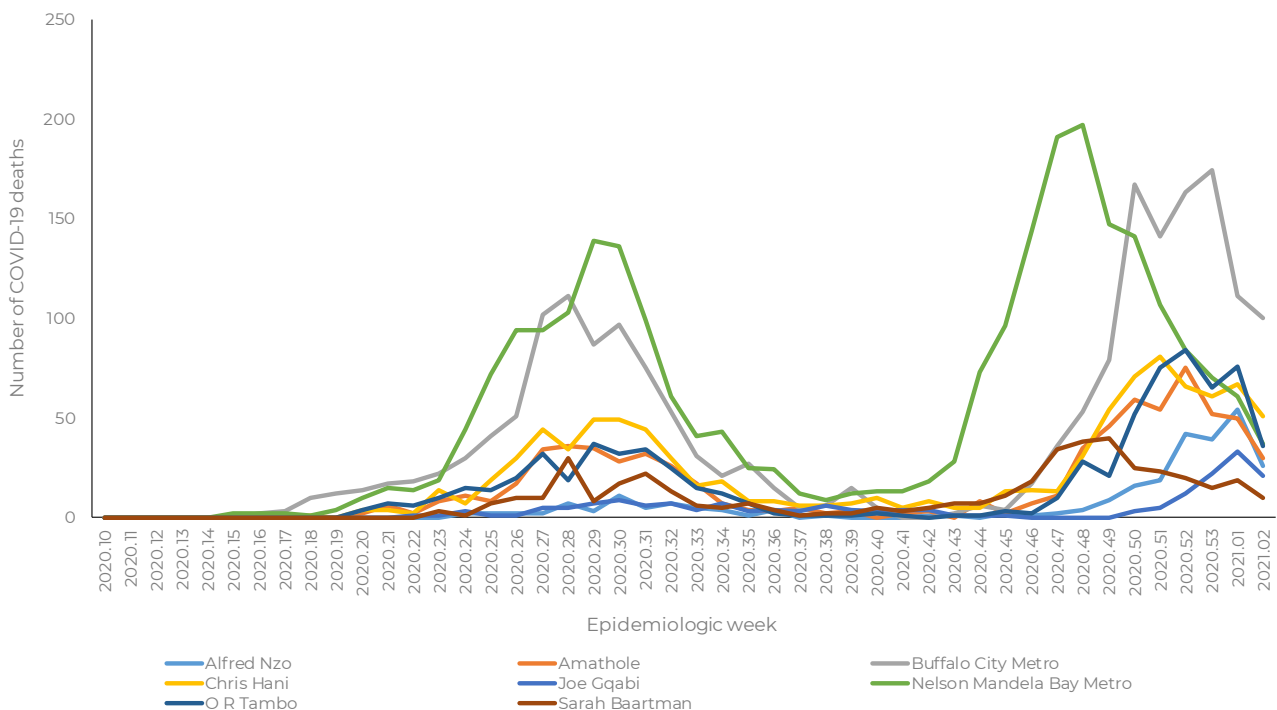


Figure 7. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-16 January 2021

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WESTERN CAPE

There has been an increase in admissions reported in the Western Cape in both public and private sectors since week 43, exceeding the weekly numbers of admissions at the peak of the first wave in both sectors (Figure 8). Since week 53, a decrease in admissions has been observed in both sectors

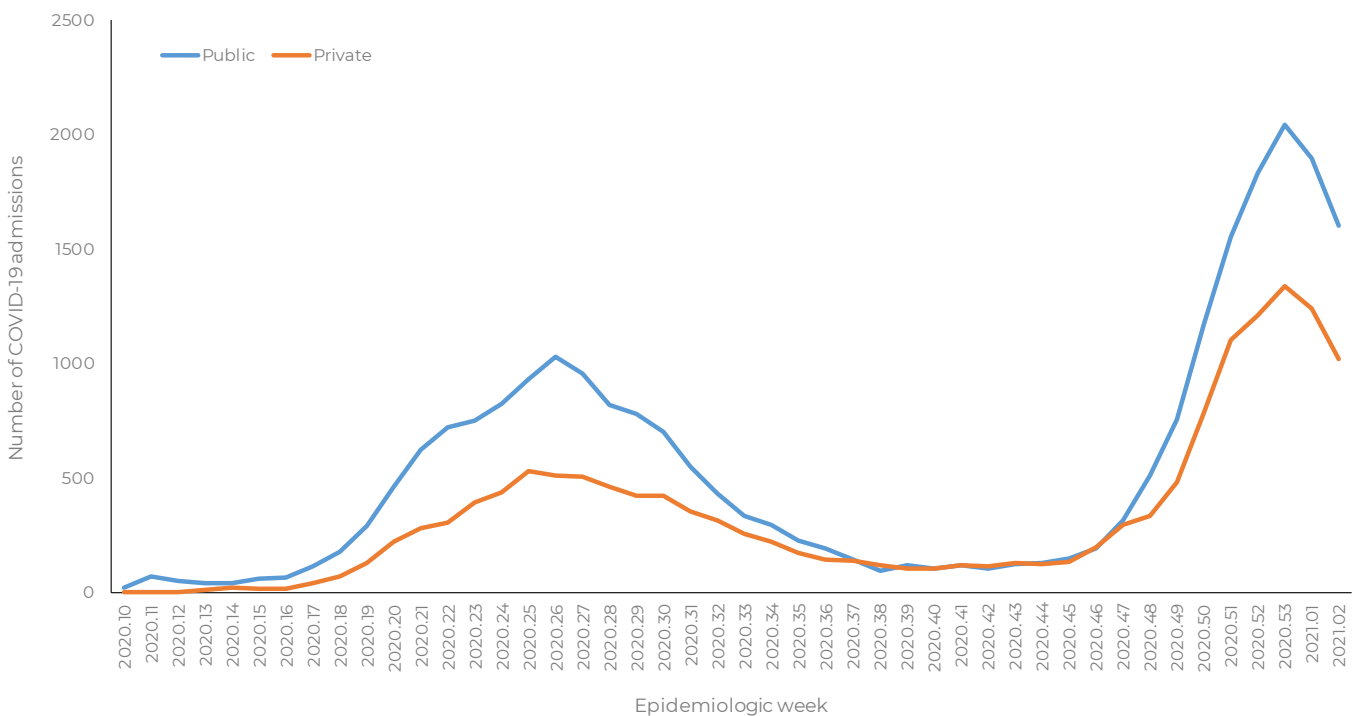


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-16 January 2021

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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, in Cape Winelands and Overberg since week 52, and City of Cape Town Metro and West Coast since week 53.

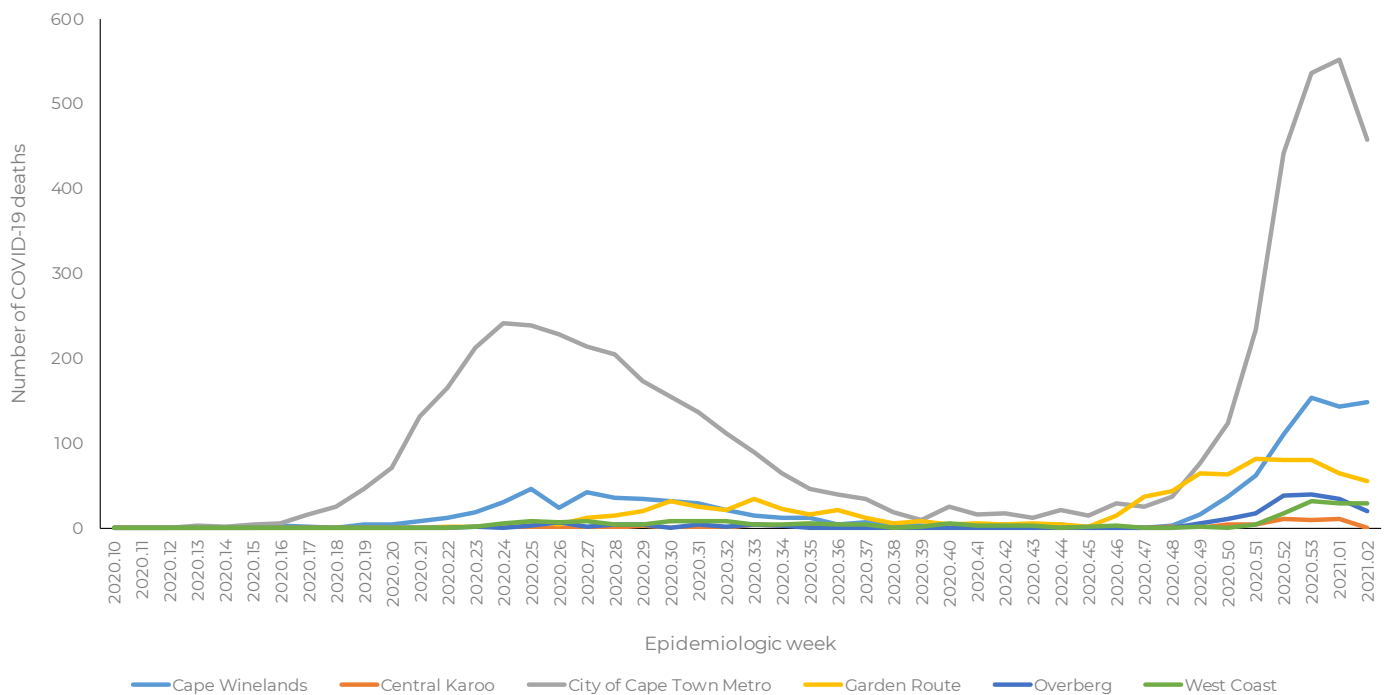


Figure 9: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-16 January 2021

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All districts showed decrease in COVID-19 admission in week 1 and week 2. The highest proportion of new admissions was in City of Cape Town (Table 5).

Table 5: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, Western Cape

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Cape Winelands	4639	442	345	-22	13.2	1.4
Central Karoo	350	41	16	-61	0.6	0.8
City of Cape Town Metro	28517	2139	1851	-13	70.6	1.5
Garden Route	4055	247	211	-15	8.1	1.3
Overberg	1099	134	82	-39	3.1	1.0
West Coast	1190	131	115	-12	4.4	1.0

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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.

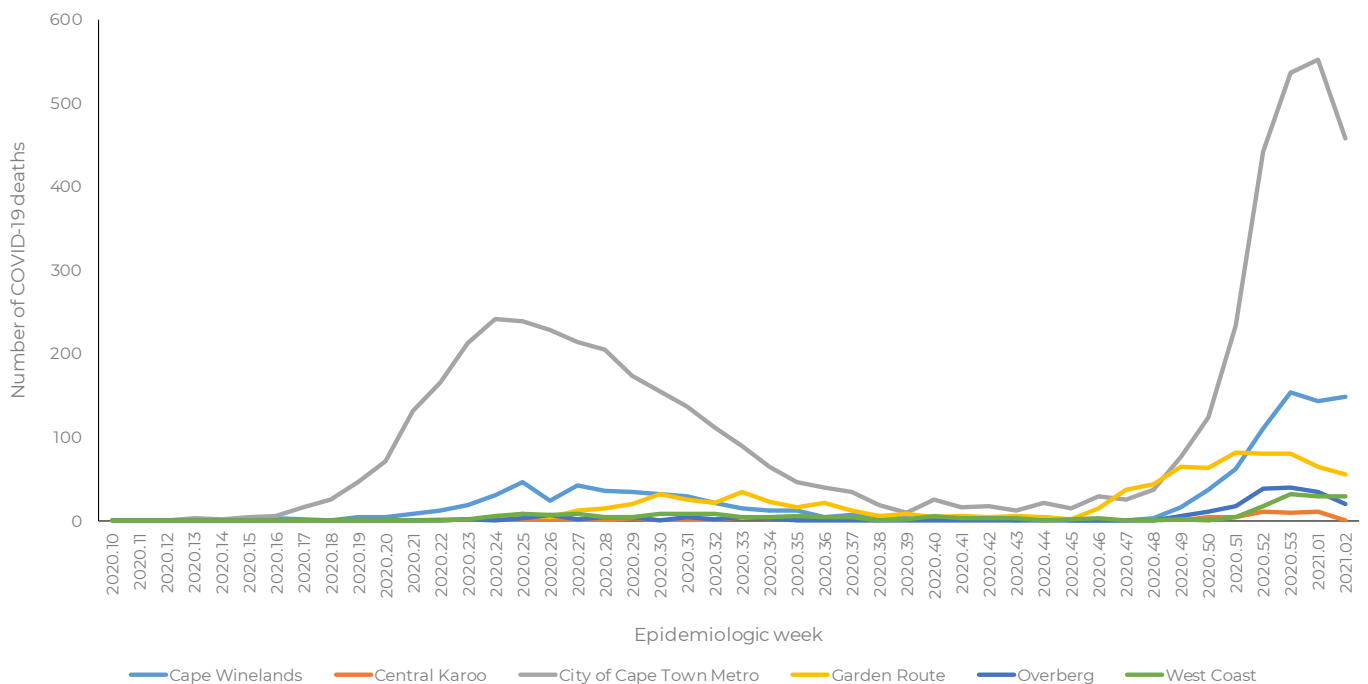


Figure 10: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-16 January 2021

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KWAZULU-NATAL

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

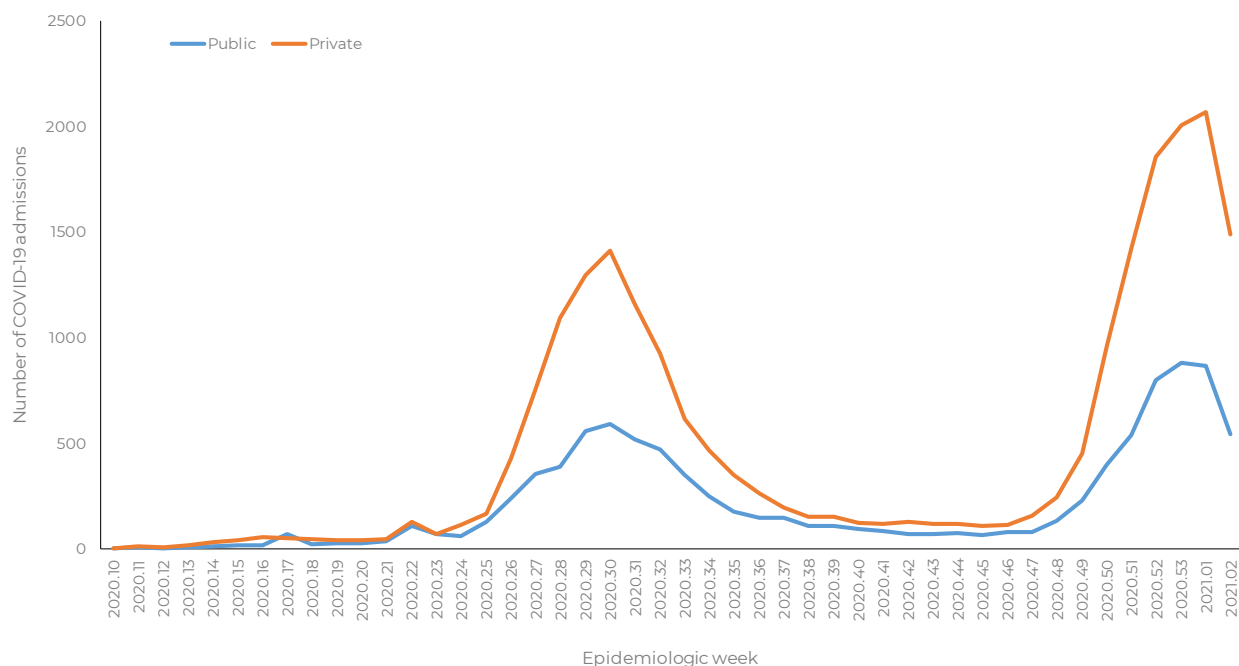


Figure 11: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-16 January 2021

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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.

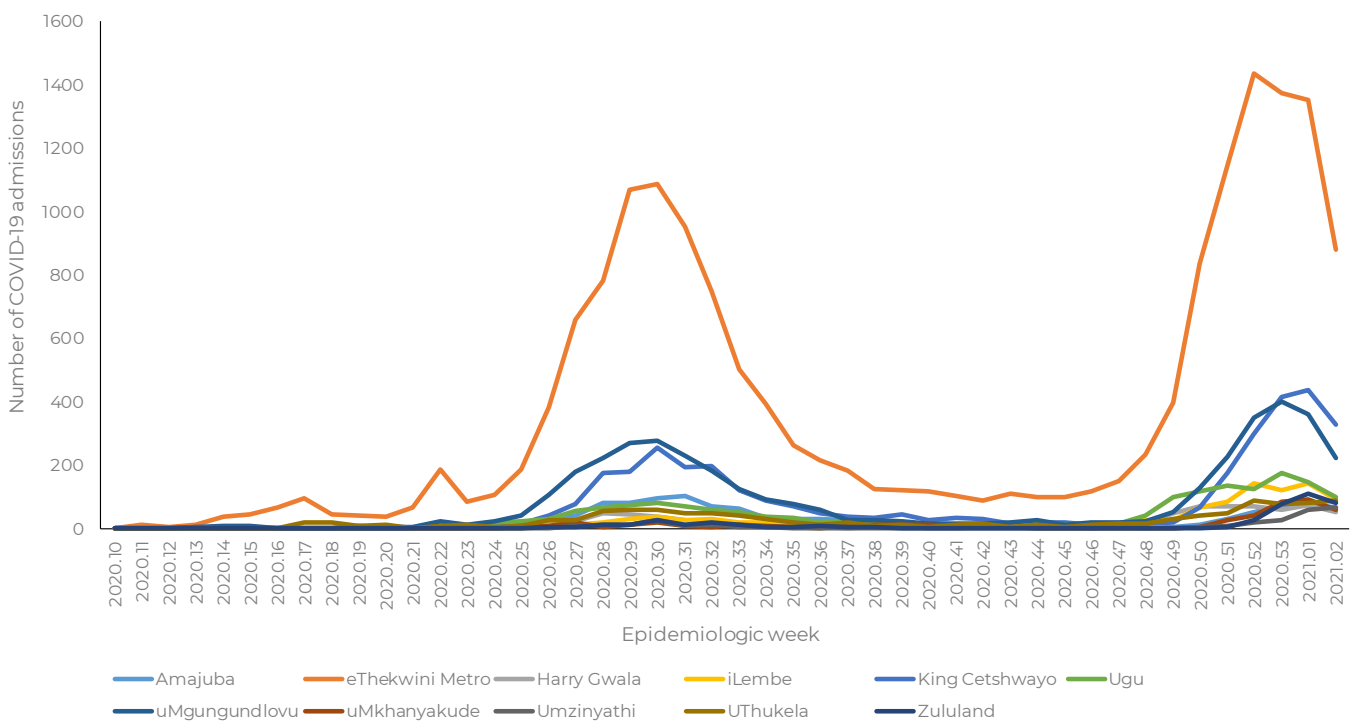


Figure 12: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-16 January 2021

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The number of COVID-19 admissions increased in two of 11 districts from week 1 to week 2, uMzinyathi and uThukela. The highest proportion of new admissions was in eThekweni Metro (Table 6).

Table 6: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, KwaZulu-Natal

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Amajuba	1123	76	67	-12	3.3	0.6
eThekweni Metro	17053	1350	879	-35	43.3	1.1
Harry Gwala	757	74	51	-31	2.5	0.5
iLembe	1056	143	91	-36	4.5	0.6
King Cetshwayo	3539	438	328	-25	16.1	1.7
Ugu	1750	148	100	-32	4.9	0.6
uMgungundlovu	3956	361	221	-39	10.9	0.9
uMkhanyakude	511	92	60	-35	3.0	0.4
Umzinyathi	298	60	65	8	3.2	0.6
UThukela	1135	82	88	7	4.3	0.6
Zululand	459	112	81	-28	4.0	0.5

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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).

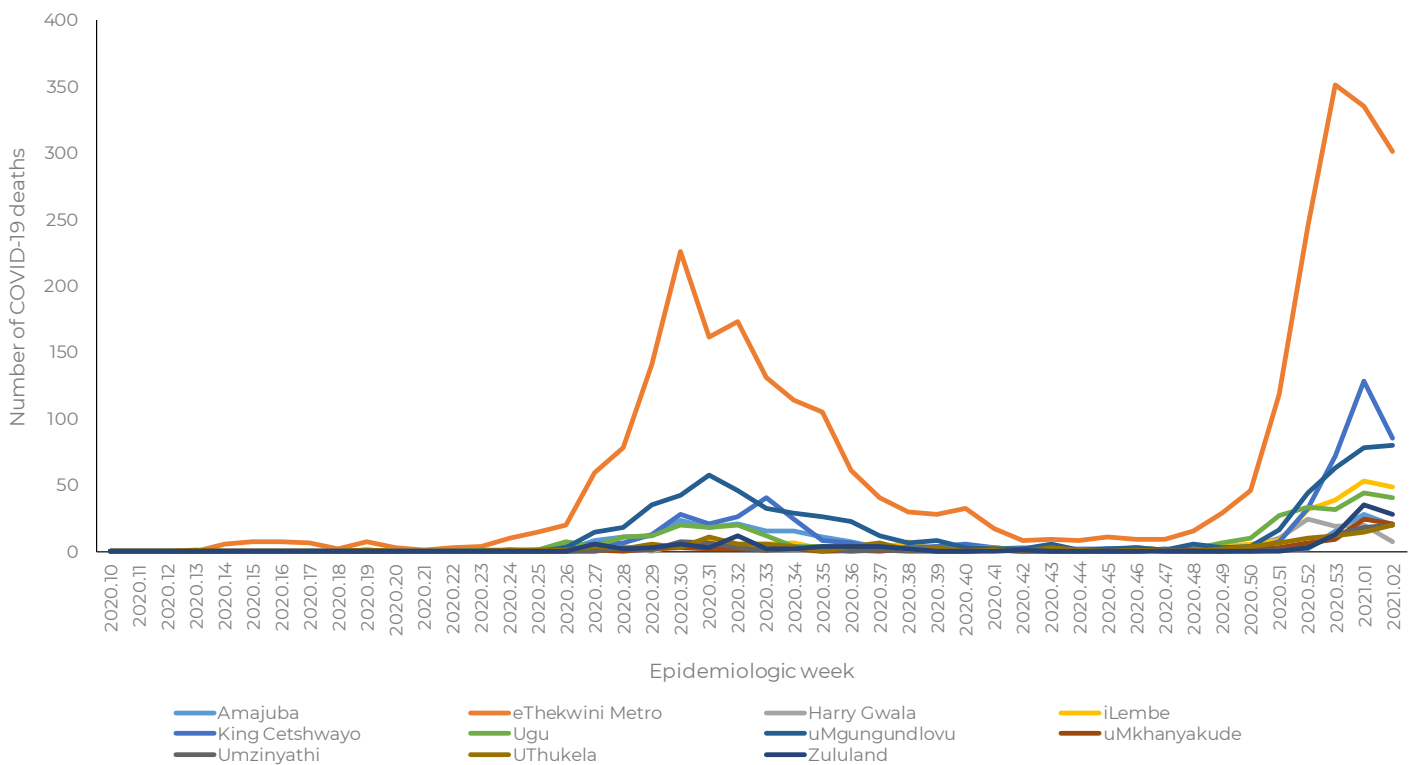


Figure 13: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-16 January 2021

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GAUTENG

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

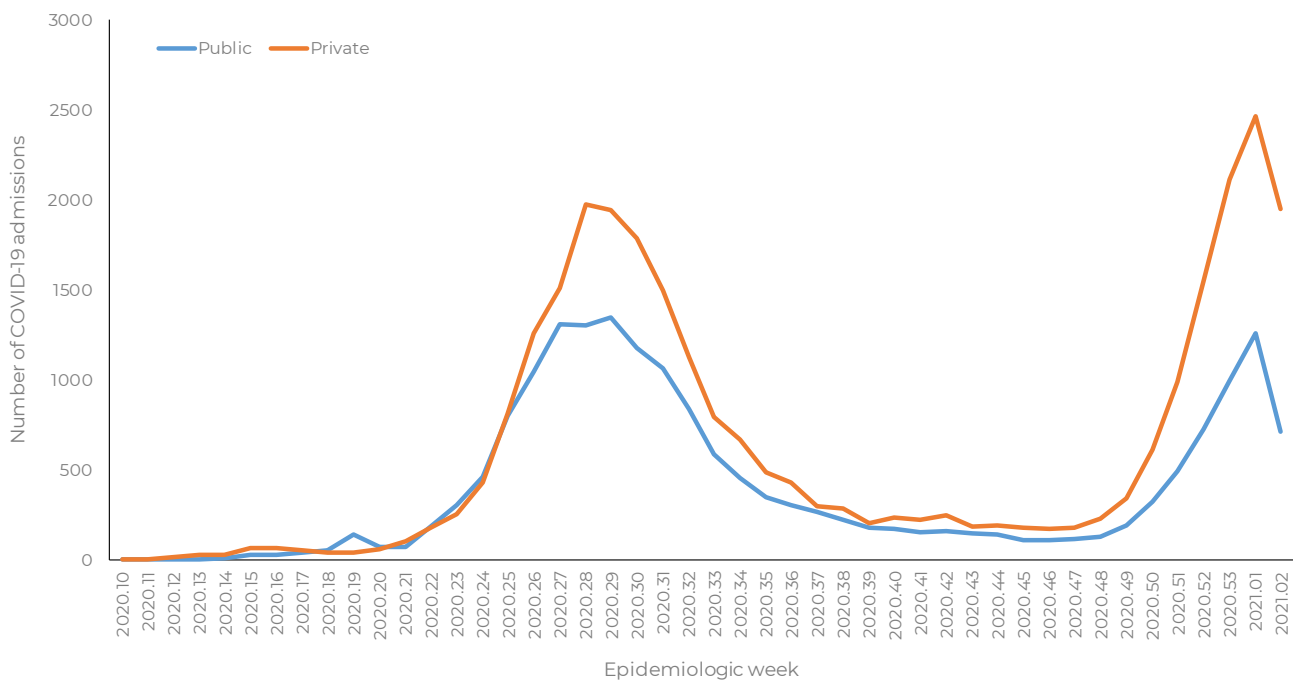


Figure 14: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-16 January 2021

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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 Tshwane Metro and West Rand (Figure 15). Decreases in the most recent week may reflect delays in data submission.

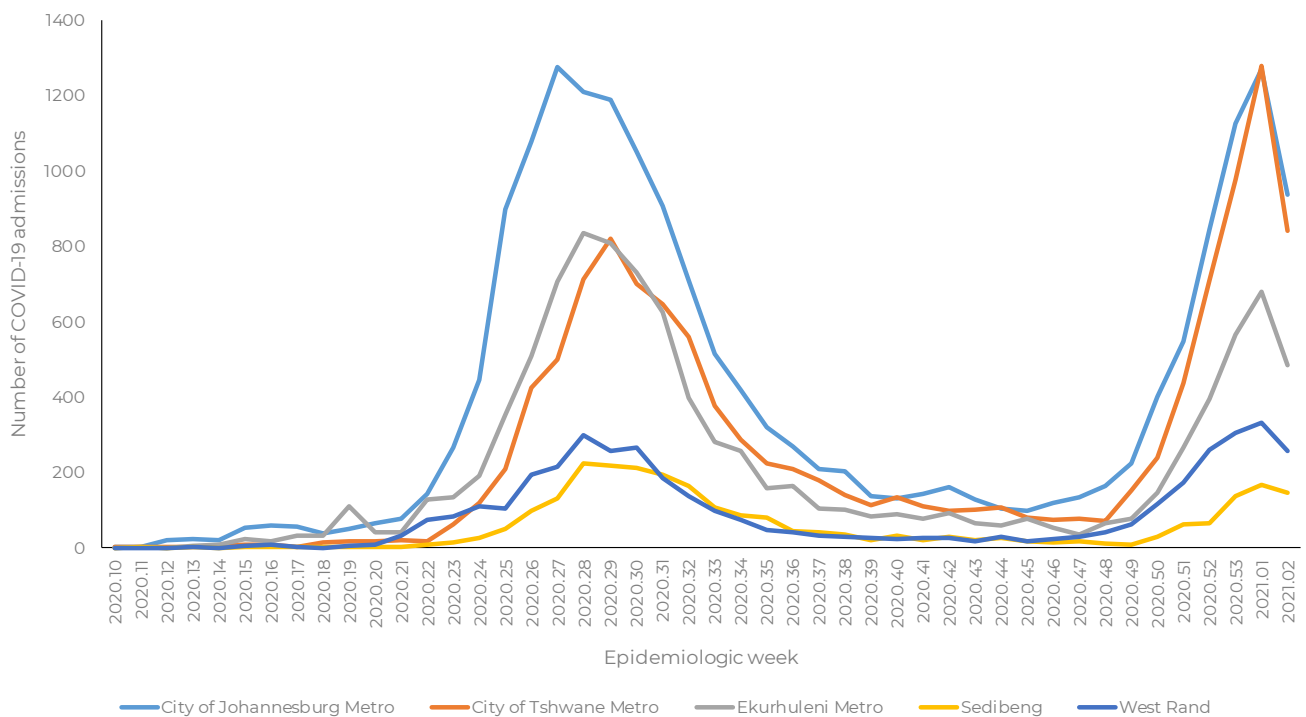


Figure 15: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-16 January 2021

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All districts showed decrease in COVID-19 admission in week 1 and week 2. 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 1 to week 2, by district, Gauteng

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
City of Johannesburg Metro	18242	1270	938	-26	35.2	0.6
City of Tshwane Metro	11874	1278	840	-34	31.5	0.8
Ekurhuleni Metro	10092	678	483	-29	18.1	0.5
Sedibeng	2565	167	147	-12	5.5	0.6
West Rand	4069	332	258	-22	9.7	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).

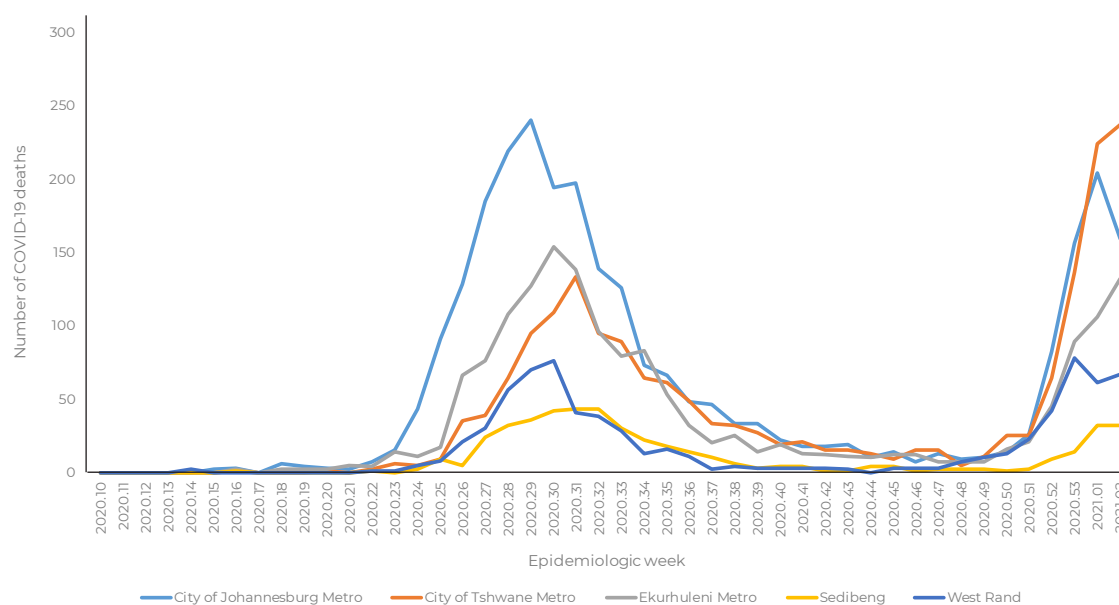


Figure 16: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-16 January 2021

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LIMPOPO

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

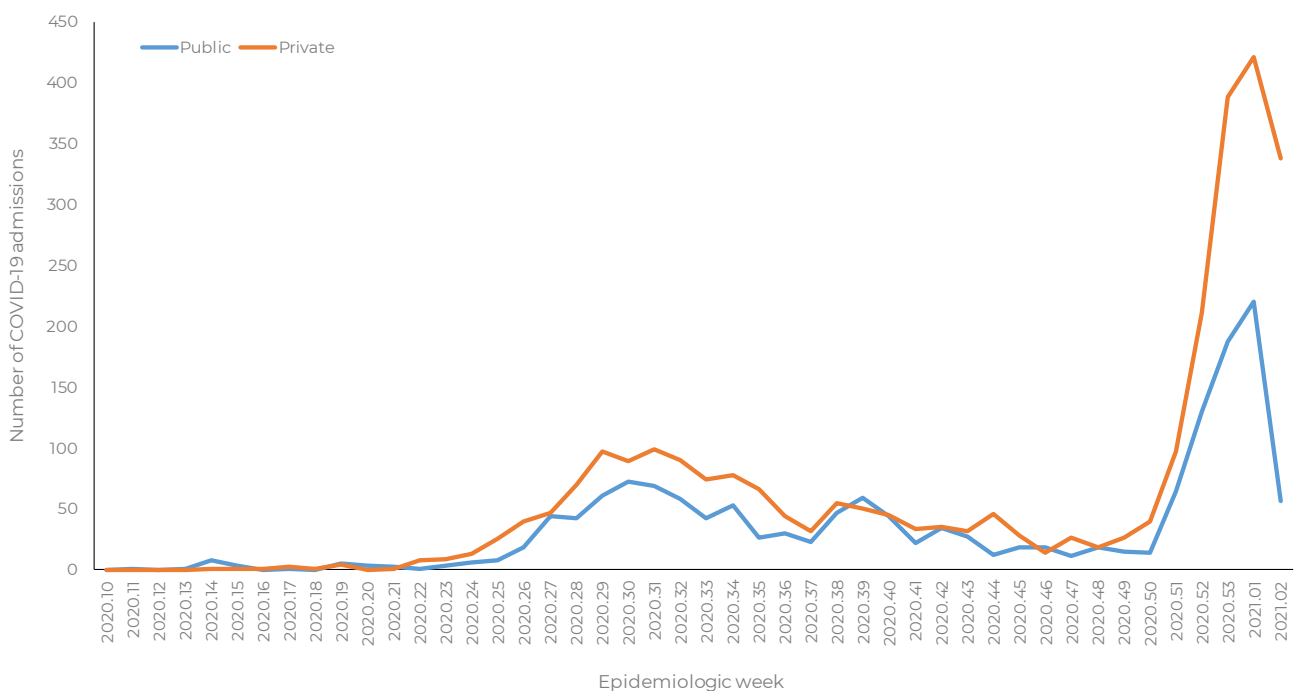


Figure 17: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-16 January 2021

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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.

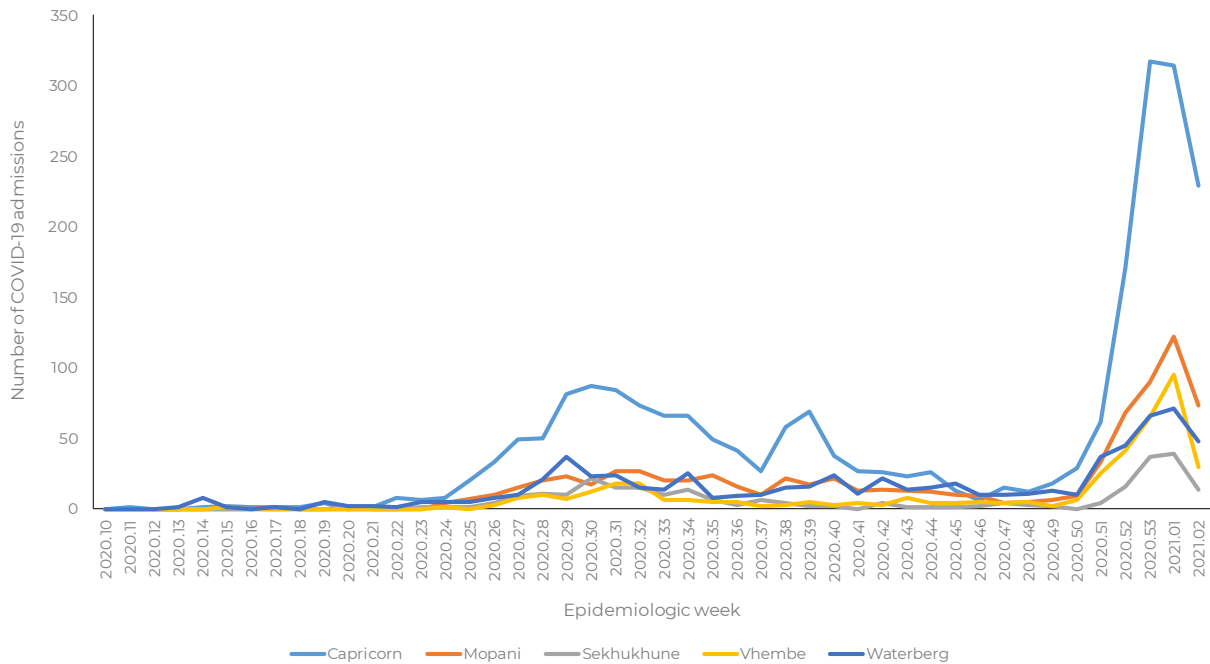


Figure 18: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-16 January 2021

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All districts showed decrease in COVID-19 admission in week 1 and week 2. The highest proportion of new admissions was in Capricorn (Table 8).

Table 8: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, Limpopo

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Capricorn	2213	314	229	-27	58.1	4.4
Mopani	783	122	73	-40	18.5	1.6
Sekhukhune	265	39	14	-64	3.6	0.3
Vhembe	414	95	30	-68	7.6	0.5
Waterberg	696	71	48	-32	12.2	1.6

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).

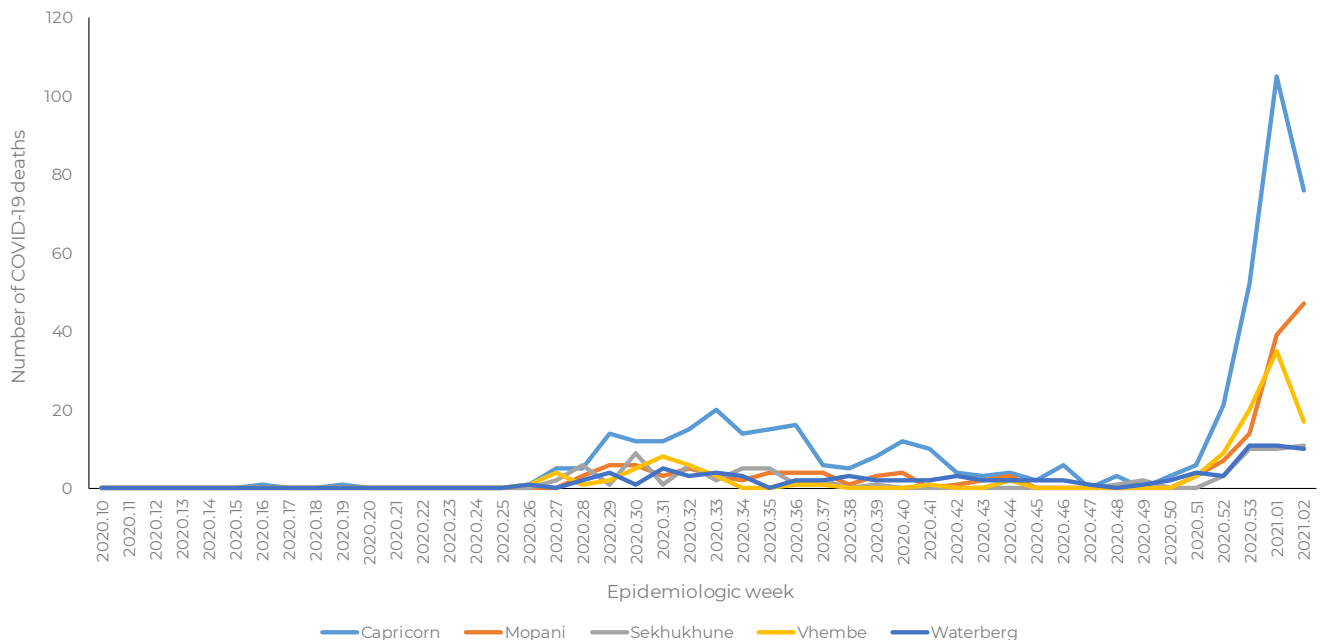


Figure 19: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-16 January 2021

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FREE STATE

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

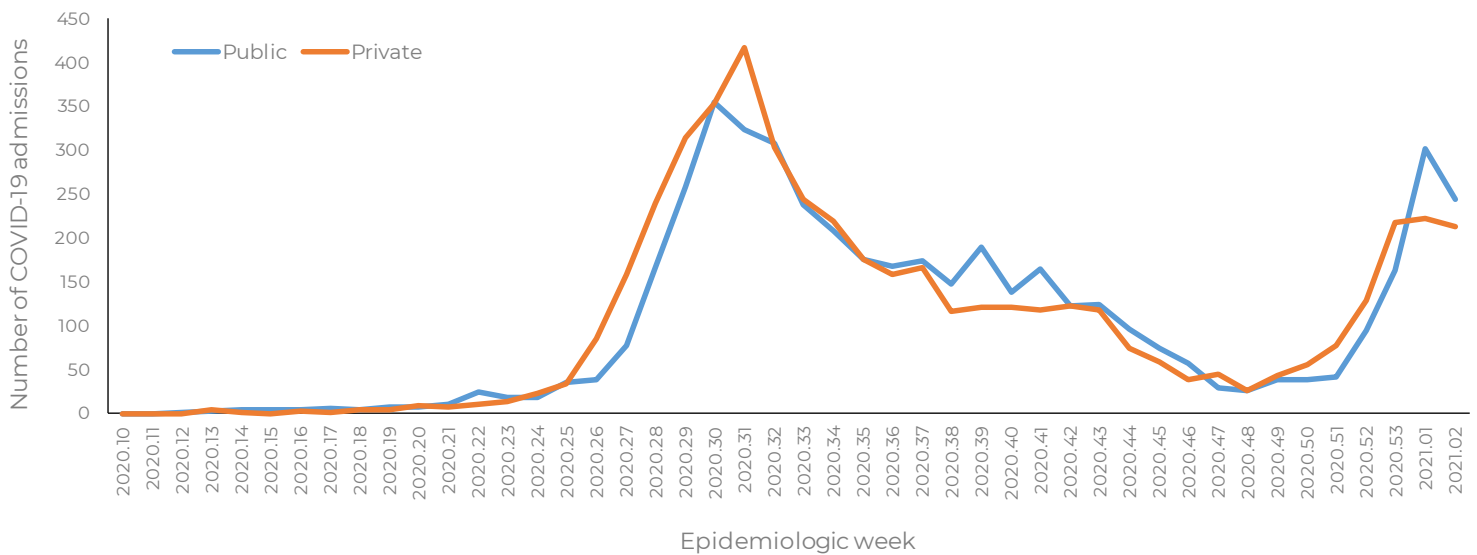


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-16 January 2021

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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).

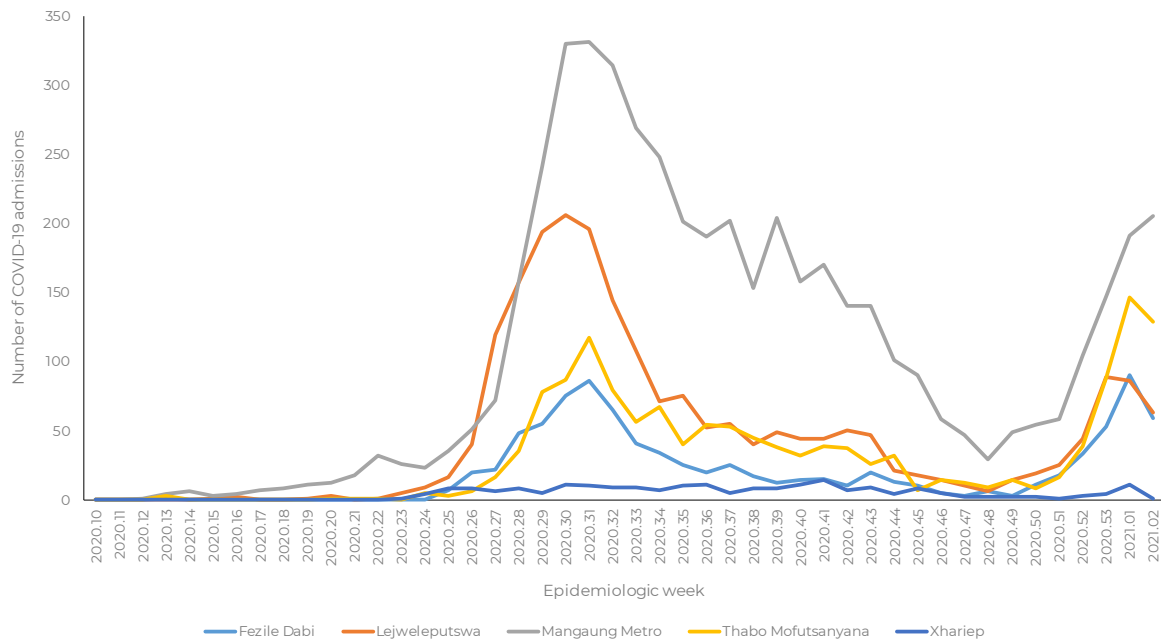


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-16 January 2021

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The number of COVID-19 admissions increased in one of five districts from week 1 to week 2, Mangaung Metro. The highest proportion of new admissions were in Mangaung Metro (Table 9).

Table 9: Percentage change in COVID-19 admissions, epidemiologic week 52 to week 53, by district, Free State

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Fezile Dabi	916	90	59	-34	12.9	2.5
Lejweleputswa	2138	86	63	-27	13.8	2.1
Mangaung Metro	4895	191	205	7	44.9	5.2
Thabo Mofutsanyana	1433	146	129	-12	28.2	3.7
Xhariep	214	11	1	-91	0.2	0.2

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

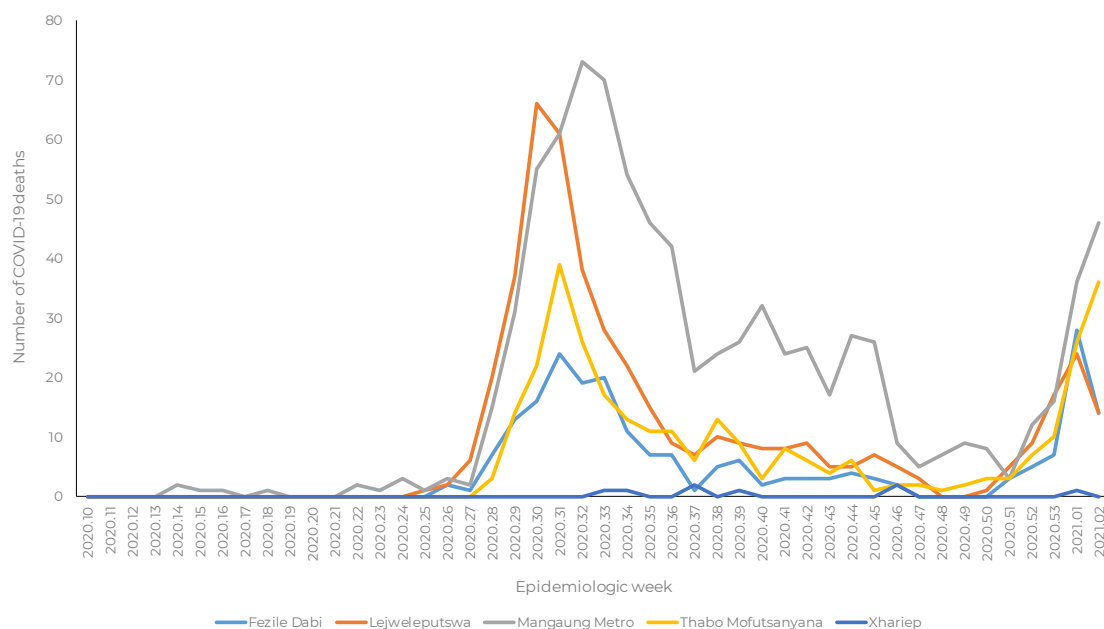


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-16 January 2021

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MPUMALANGA

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

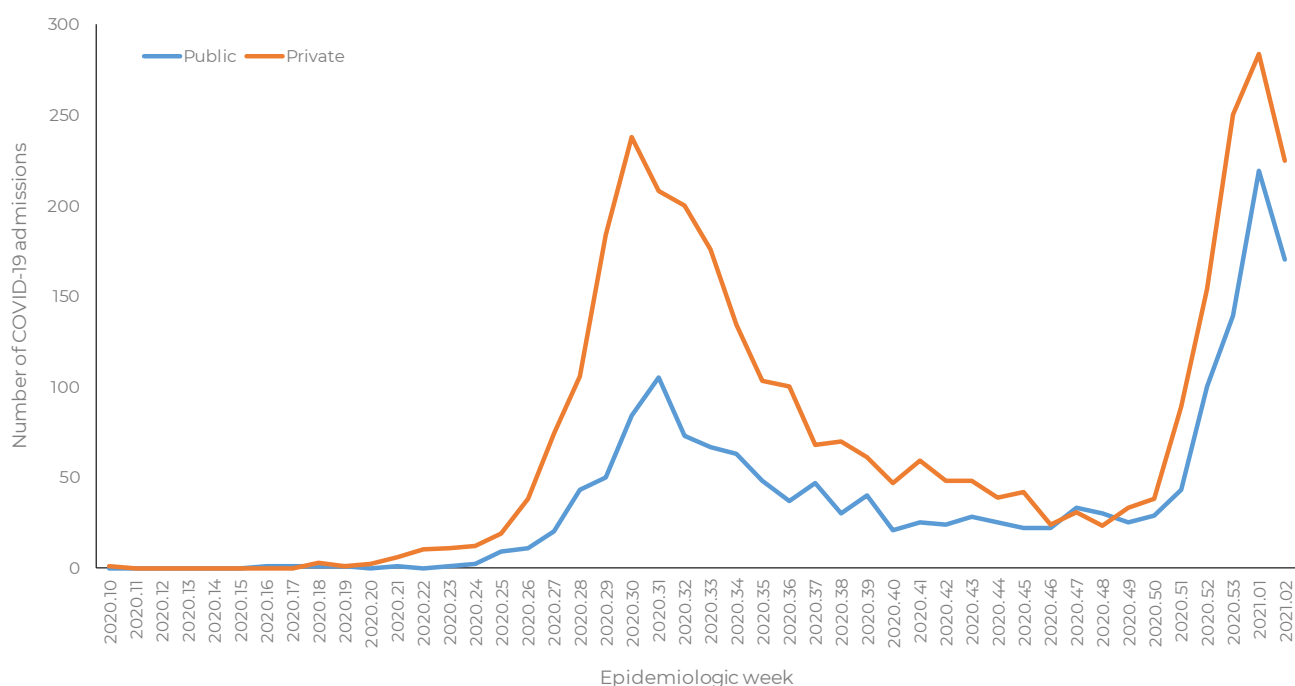


Figure 23: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-16 January 2021

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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).

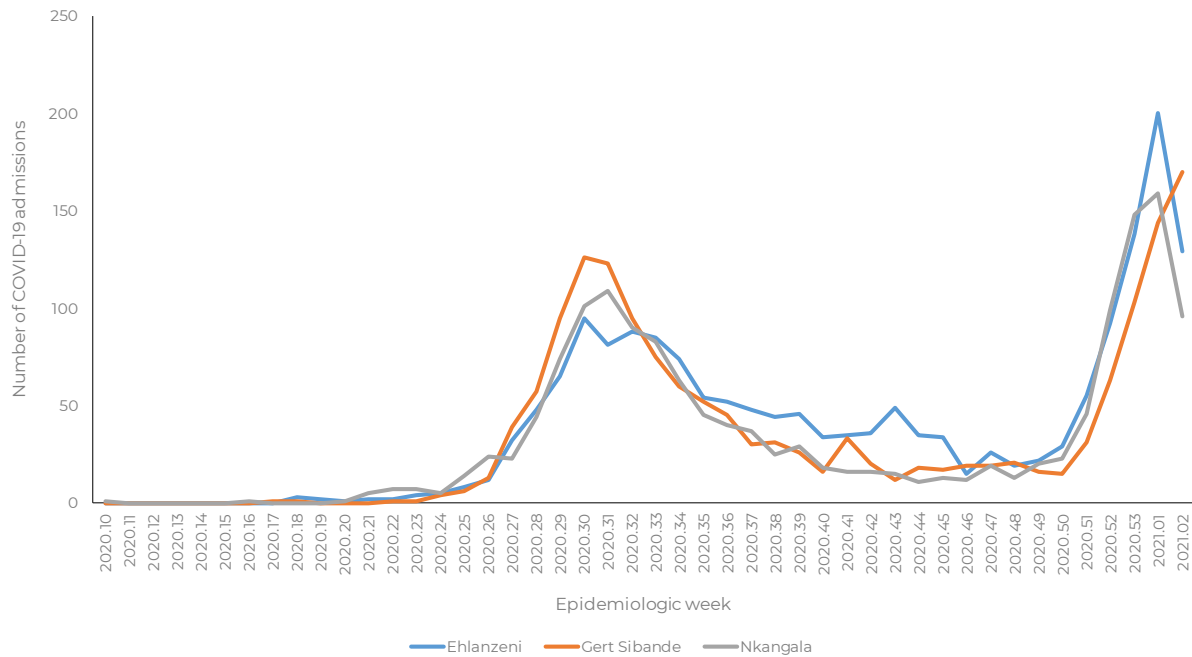


Figure 24: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-16 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

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The number of COVID-19 admissions increased in one of three districts from week 1 to week 2, Gert Sibande. The highest proportion of new admissions were in Gert Sibande (Table 10).

Table 10: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, Mpumalanga

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Ehlanzeni	1799	200	129	-36	31.7	1.7
Gert Sibande	1610	144	182	26	44.7	3.6
Nkangala	1552	159	96	-40	23.6	1.5

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).

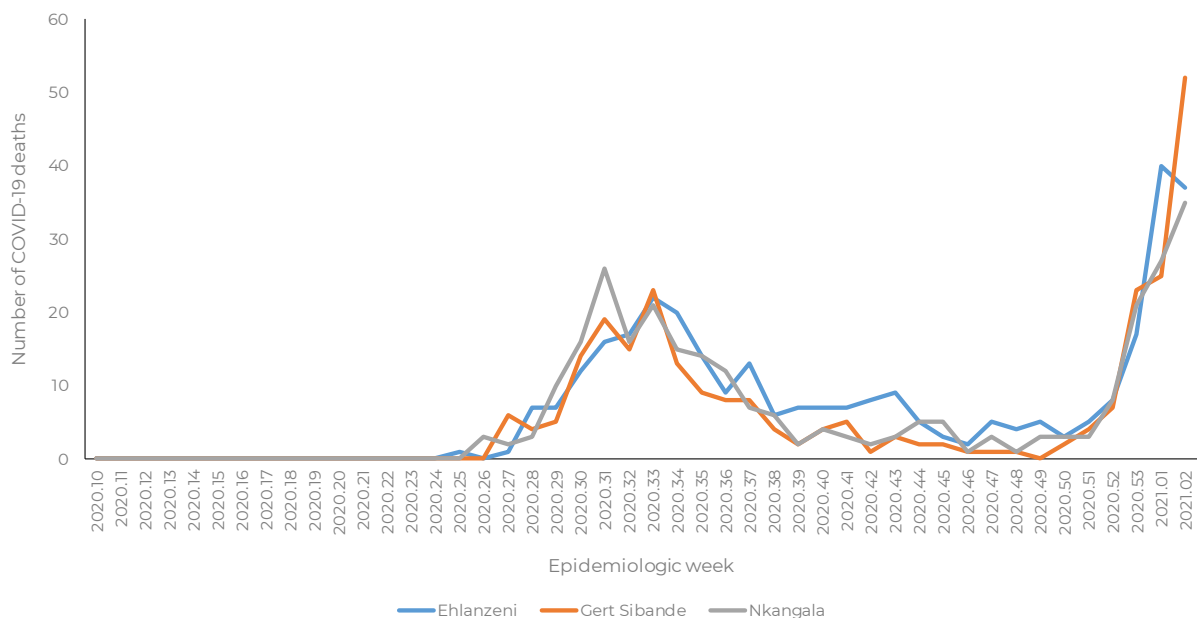


Figure 25: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-16 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2021

NORTH WEST

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

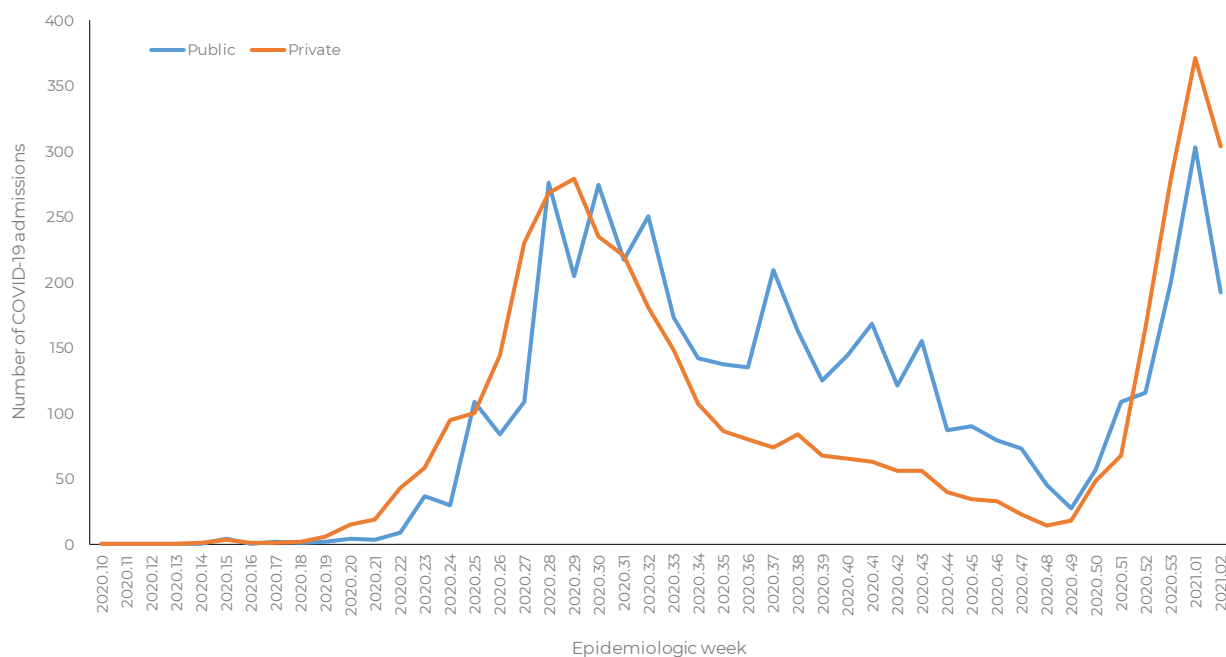


Figure 26: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-16 January 2021

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WEEK 2 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).

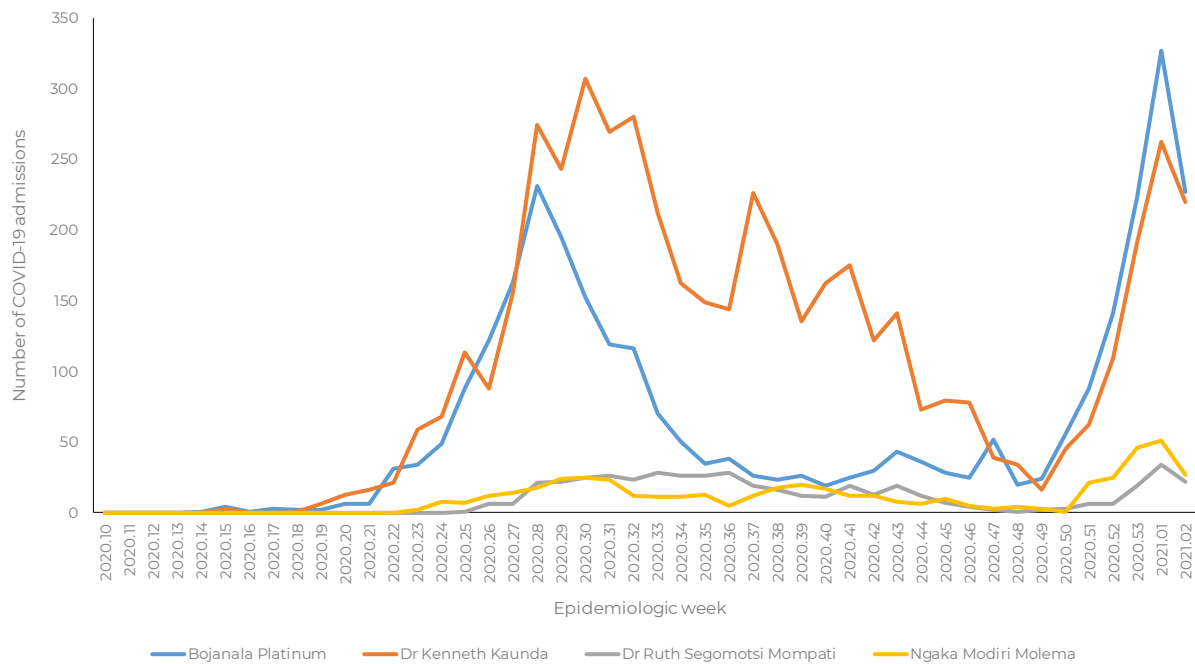


Figure 27: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-16 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2021

All districts showed decrease in COVID-19 admission in week 1 and week 2. The highest proportion of new admissions were in Bojanala Platinum and Dr Kenneth Kaunda (Table 11).

Table 11: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, North West

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Bojanala Platinum	2957	327	227	-31	45.8	2.4
Dr Kenneth Kaunda	4943	262	220	-16	44.4	5.6
Dr Ruth Segomotsi Mompoti	465	34	22	-35	4.4	0.9
Ngaka Modiri Molema	486	51	27	-47	5.4	0.6

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). 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).

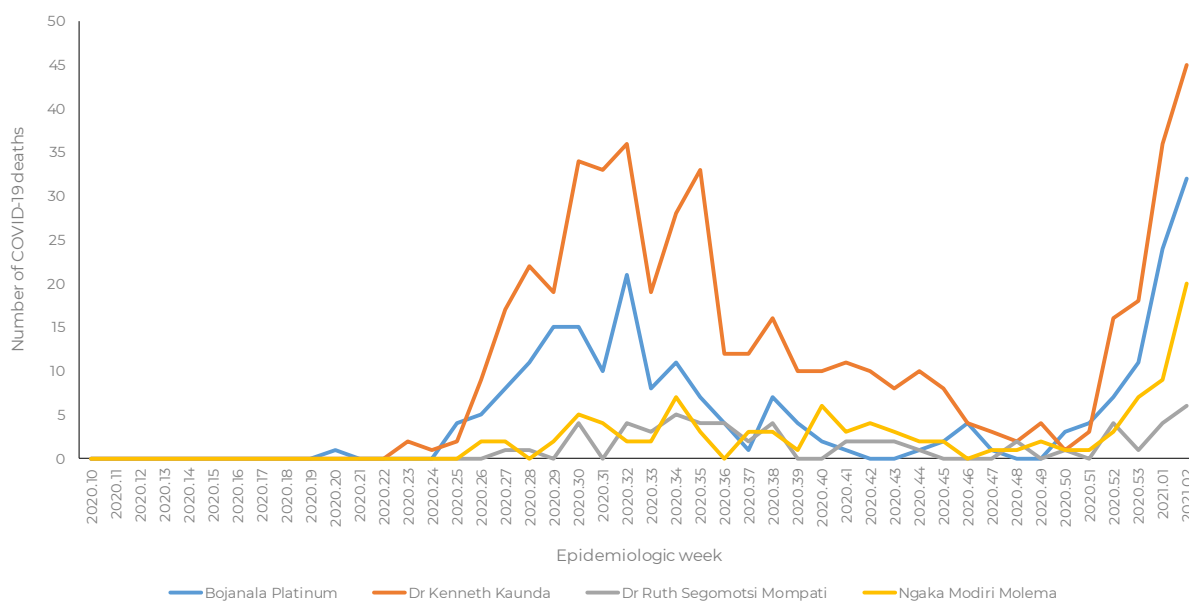


Figure 28: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-16 January 2021

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NORTHERN CAPE

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

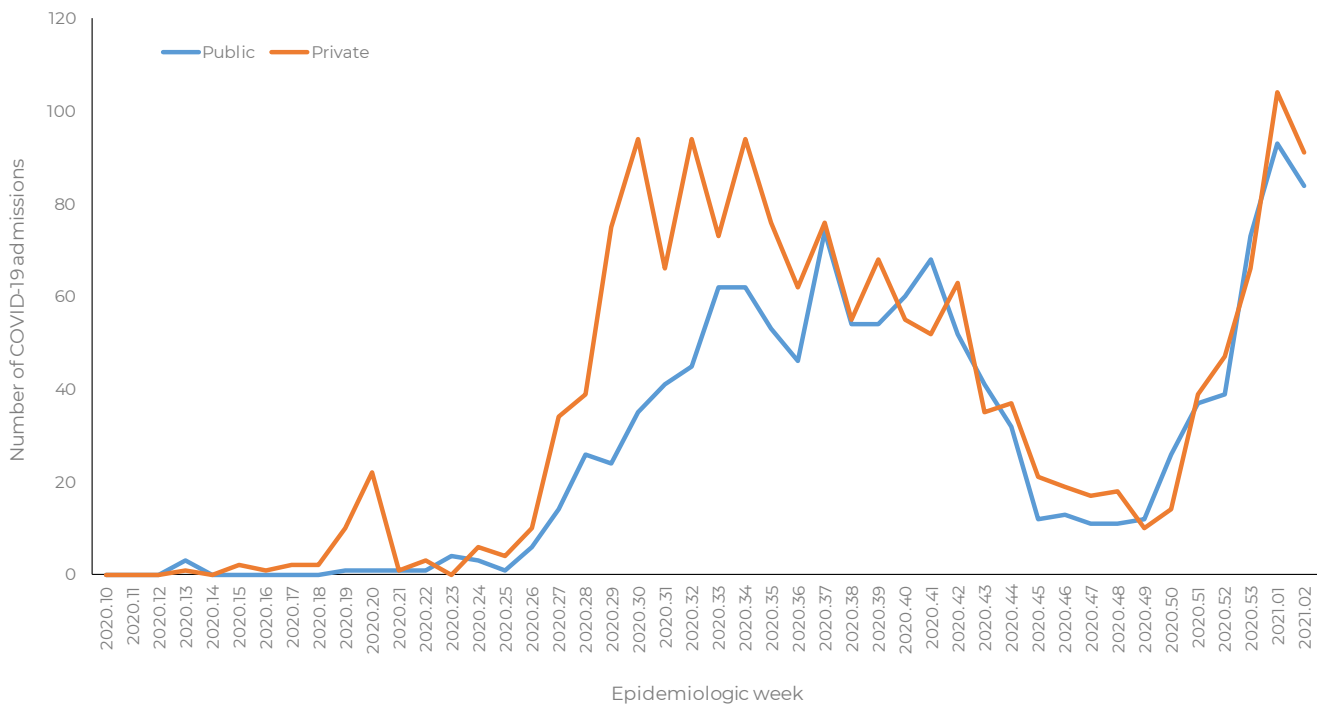


Figure 29: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-16 January 2021

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WEEK 2 2021

The increase in admissions in Northern Cape is observed across all districts; and has 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.

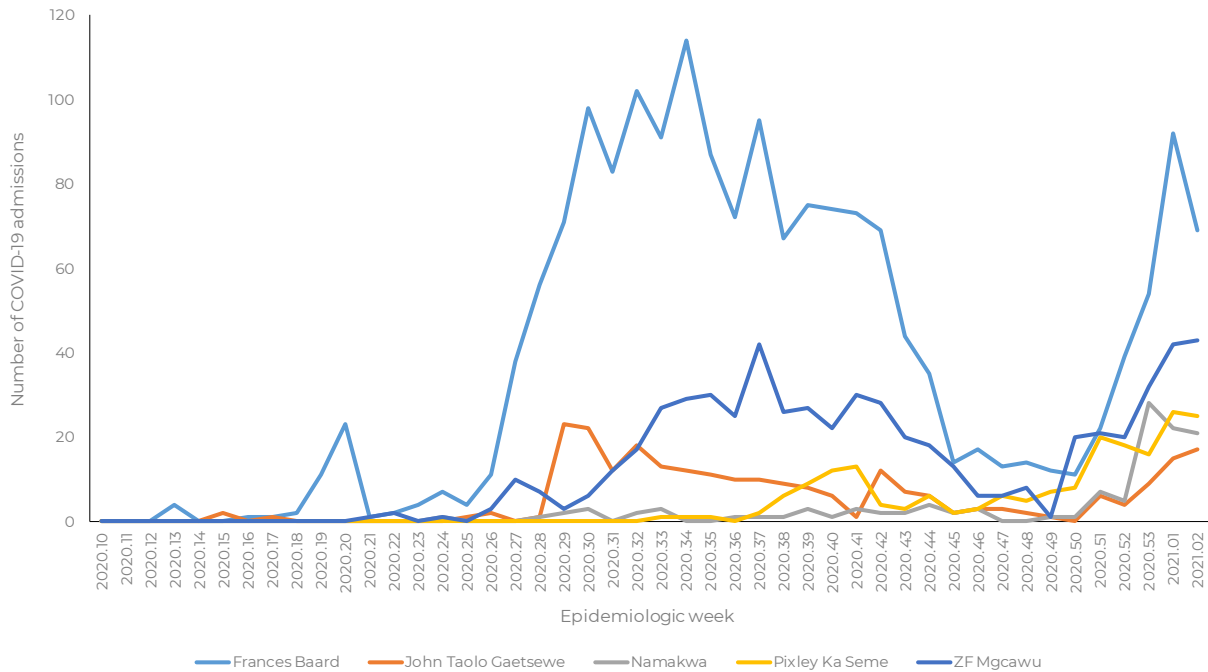


Figure 30: Number of reported COVID-19 admissions, by district and epidemiologic week, Northern Cape, 5 March 2020-16 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2021

The number of COVID-19 admissions increased in two of five districts from week 1 to week 2, John Taolo Gaetsewe and ZF Mgcawu. The highest proportion of new admissions were in Frances Baard district (Table 12).

Table 12: Percentage change in COVID-19 admissions, epidemiologic week 1 to week 2, by district, Northern Cape

District	Cumulative hospital admissions	Admissions Week 1	Admissions Week 2	Percentage change in admissions	Percentage of total new admissions	Incidence risk of new admissions /100 000 persons
Frances Baard	1772	92	69	-25	39.2	9.4
John Taolo Gaetsewe	249	15	17	13	9.7	3.6
Namakwa	120	22	21	-5	11.9	10.3
Pixley Ka Seme	194	26	25	-4	14.2	6.7
ZF Mgcawu	598	43	44	2	25.0	8.9

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 Mgcawu districts (Figure 31).

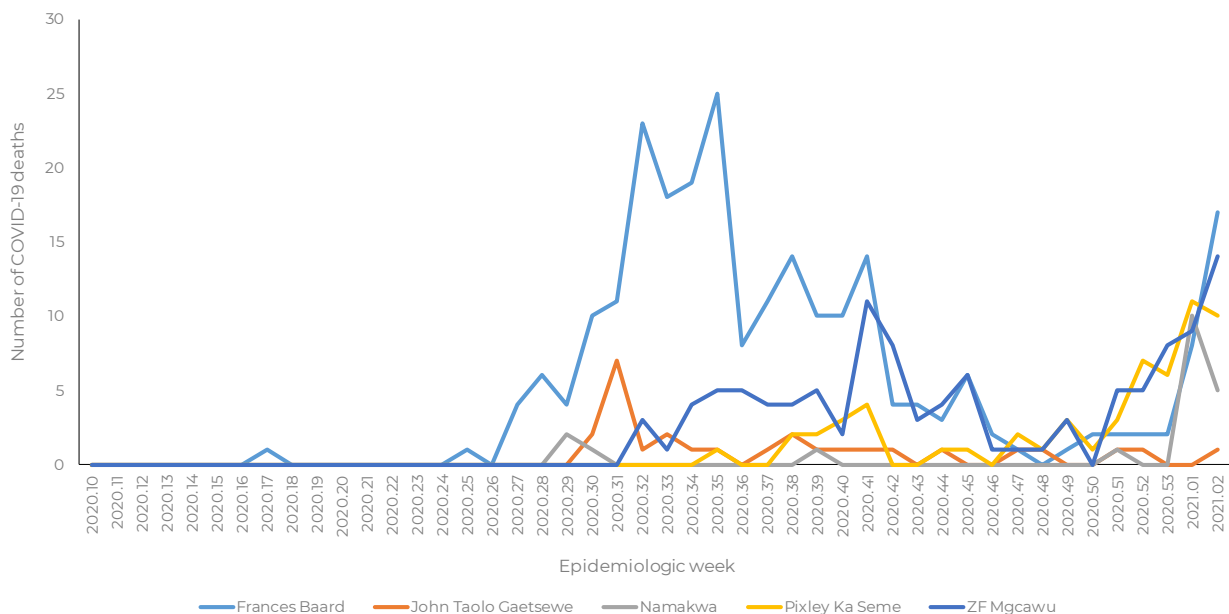


Figure 31: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-16 January 2021

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 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.

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

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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 2 2021

APPENDIX

Table 13: Percentage average change in hospital admissions over 14 days, by district, South Africa, 2 January-16 January 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	1311	157,5	66	7,9	-46,8
	Amathole	1991	249,1	60	7,5	-38,8
	Buffalo City Metro	6653	830,7	237	29,6	-34,5
	Chris Hani	2808	385,9	109	15,0	-38,1
	Joe Gqabi	480	139,1	42	12,2	-28,8
	Nelson Mandela Bay Metro	9609	792,1	140	11,5	-23,1
	O R Tambo	2476	161,6	74	4,8	-56,5
	Sarah Baartman	1382	285,6	31	6,4	-11,4
Free State	Fezile Dabi	916	179,6	59	11,6	-34,4
	Lejweleputswa	2138	327,1	63	9,6	-26,7
	Mangaung Metro	4895	562,0	205	23,5	7,3
	Thabo Mofutsanyana	1433	187,4	129	16,9	-11,6
	Xhariep	214	165,3	1	0,8	-90,9
Gauteng	City of Johannesburg Metro	18242	310,9	938	16,0	-26,1
	City of Tshwane Metro	11874	318,4	840	22,5	-34,3
	Ekurhuleni Metro	10092	253,4	483	12,1	-28,8
	Sedibeng	2565	268,4	147	15,4	-12,0
	West Rand	4069	426,2	258	27,0	-22,3
KwaZulu-Natal	Amajuba	1123	196,8	67	11,7	-11,8
	eThekweni Metro	17053	428,3	879	22,1	-34,9
	Harry Gwala	757	147,3	51	9,9	-31,1
	iLembe	1056	152,0	91	13,1	-36,4
	King Cetshwayo	3539	364,6	328	33,8	-25,1
	Ugu	1750	218,3	100	12,5	-32,4
	uMgungundlovu	3956	344,2	221	19,2	-38,8

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2021

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
	uMkhanyakude	511	74,4	60	8,7	-34,8
	Umzinyathi	298	52,5	65	11,5	8,3
	UThukela	1135	158,9	88	12,3	7,3
	Zululand	459	52,1	81	9,2	-27,7
Limpopo	Capricorn	2213	169,2	229	17,5	-27,1
	Mopani	783	66,1	73	6,2	-40,2
	Sekhukhune	265	22,3	14	1,2	-64,1
	Vhembe	414	29,0	30	2,1	-68,4
	Waterberg	696	93,8	48	6,5	-32,4
Mpumalanga	Ehlanzeni	1799	98,4	129	7,1	-35,5
	Gert Sibande	1610	129,6	182	14,7	26,4
	Nkangala	1552	96,5	96	6,0	-39,6
North West	Bojanala Platinum	2957	153,4	227	11,8	-30,6
	Dr Kenneth Kaunda	4943	619,6	220	27,6	-16,0
	Dr Ruth Segomotsi Mompoti	465	98,3	22	4,7	-35,3
	Ngaka Modiri Molema	486	53,4	27	3,0	-47,1
Northern Cape	Frances Baard	1772	427,1	69	16,6	-25,0
	John Taolo Gaetsewe	249	91,7	17	6,3	13,3
	Namakwa	120	103,8	21	18,2	-4,5
	Pixley Ka Seme	194	92,0	25	11,9	-3,8
	ZF Mgcawu	598	213,6	44	15,7	2,3
Western Cape	Cape Winelands	4639	492,8	345	36,7	-21,9
	Central Karoo	350	466,0	16	21,3	-61,0
	City of Cape Town Metro	28517	619,3	1851	40,2	-13,5
	Garden Route	4055	650,2	211	33,8	-14,6
	Overberg	1099	366,4	82	27,3	-38,8
	West Coast	1190	258,2	115	25,0	-12,2

COVID-19 SENTINEL HOSPITAL SURVEILLANCE UPDATE

WEEK 2 2021

APPENDIX

Table 14: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-16 January 2021

Age (years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	1096	1313	8	2417	38	34	1	73
5-9	278	395	0	673	6	8	0	14
10-14	517	466	0	983	10	11	0	21
15-19	1570	840	3	2413	37	36	0	73
20-24	2778	1390	2	4170	82	63	0	145
25-29	5009	2314	3	7326	201	122	1	324
30-34	7014	4074	0	11088	378	284	0	662
35-39	7891	5562	2	13455	548	486	0	1034
40-44	7672	6694	4	14370	706	734	1	1441
45-49	8786	8038	5	16829	1059	1103	1	2163
50-54	10203	9108	0	19311	1464	1523	0	2987
55-59	10781	9440	7	20228	2096	2082	1	4179
60-64	9382	8560	5	17947	2345	2494	1	4840
65-69	7535	6624	4	14163	2319	2187	0	4506
70-74	5889	5343	10	11242	1900	1960	2	3862
75-79	4297	3572	1	7870	1476	1434	0	2910
80-84	3043	2204	3	5250	1116	912	1	2029
85-89	1683	1042	1	2726	650	491	0	1141
90-94	727	371	1	1099	330	190	0	520
>=95	246	168	0	414	96	52	0	148
Unknown	875	786	101	1762	120	140	4	264
Total	97272	78304	160	175736	16977	16346	13	33336