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

COVID-19 Hospital Surveillance
Update: Week 18, 2022

Overview of report

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 7 May 2022.

Highlights

- From 5 March 2020 to 7 May 2022, 522,899 COVID-19 admissions and 102,423 in-hospital deaths were reported to DATCOV from 668 facilities (407 public-sector and 261 private-sector) in all nine provinces of South Africa.
- There was 5% decrease in the number of new admissions in week 18 2022 (1917) compared to the number of admissions in week 17 2022 (2015).
- Gauteng had the highest number of admissions in the past week (815/1917,42.5%), followed by KwaZulu-Natal (425/1917, 22.2%) and Western Cape (280/1917, 14.6%). The lowest number of admissions was in Northern Cape (29/1917,1.5%).
- There was an increase in the average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in all the provinces; and a small increase in deaths comparing the previous 14 days and the current 14 days in Eastern Cape, Free State, Gauteng, KwaZulu-Natal, North West and Northern Cape.
- In the past week, 28 out of 52 districts (53.8%) showed an increase in percentage incidence change in hospital admissions over 14 days: Alfred Nzo, Buffalo City Metro, Chris Hani, Joe Gqabi, Nelson Mandela Bay Metro and Sarah Baartman (Eastern Cape), Lejweleputswa, Mangaung Metro, Thabo Mofutsanyana and Xhariep (Free State),City of Tshwane Metro and West Rand (Gauteng), Amajuba, Harry Gwala, iLembe, King Cetshwayo, Ugu, uMgungundlovu, uMkhanyakude, Umzinyathi, UThukela and Zululand (KwaZulu-Natal), Ehlanzeni (Mpumalanga), John Taolo Gaetsewe and Pixley Ka Seme (Northern Cape) and Cape Winelands, Garden Route and Overberg (Western Cape).
- The highest weekly incidence risk of COVID-19 admissions reported in week 18 of 2022 was in the ≥65-year age group (14.1 admissions per 100 000 persons), and the lowest weekly incidence risk was in the 10-14-year age group (1.1 admissions per 100 000 persons). The highest change in admissions from week 17 to week 18 was in the 50-64 age group (2.2%).

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 7 May 2022, a total of 668 facilities submitted data on hospitalised COVID-19 cases, 407 from public sector and 261 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 2020-7 May 2022.

Facilities reporting	Public	Private
Eastern Cape	86	18
Free State	35	20
Gauteng	40	98
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	261

Results

Summary of SARS-CoV-2 cases, COVID-19 admissions and in-hospital deaths

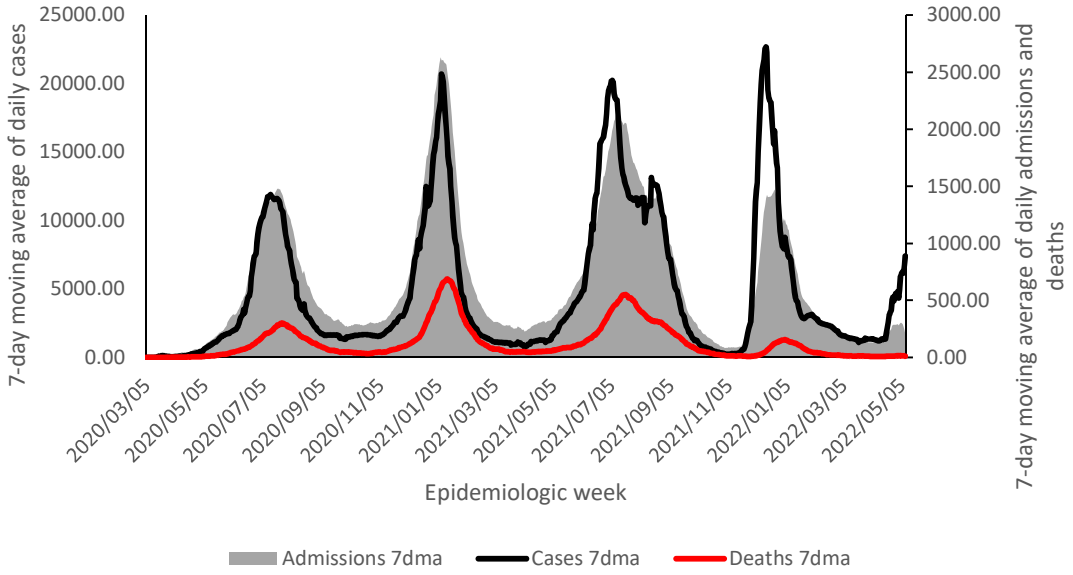

Figure 1: 7-day moving average of SARS-CoV-2 cases, COVID-19 admissions and in-hospital deaths, South Africa, 5 March 2020-7 May 2022.

Epidemiological and demographic trends in admissions

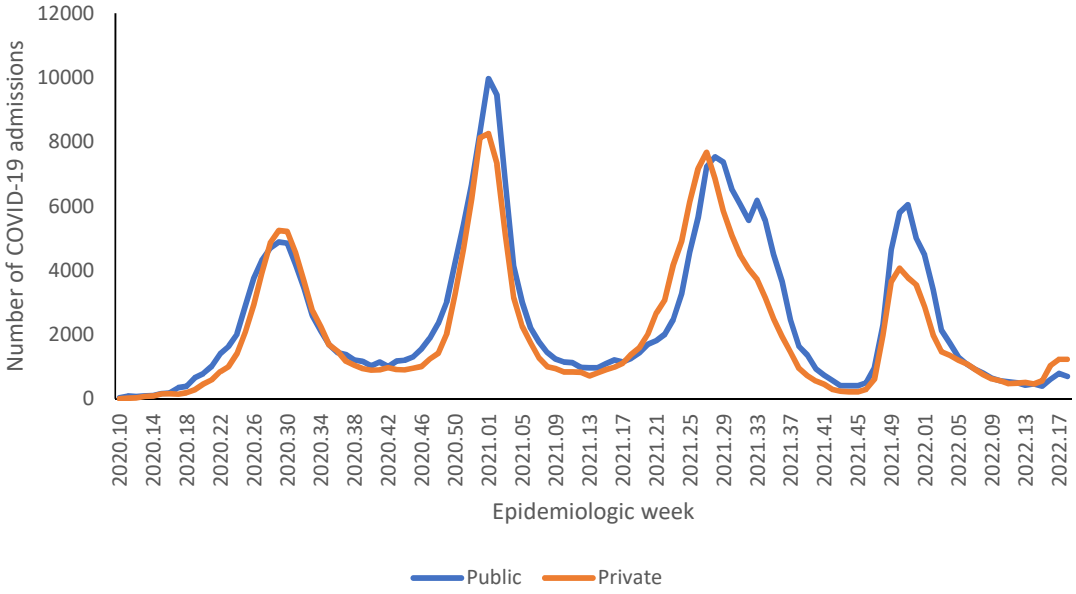

Figure 2: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-7 May 2022, N=522,899

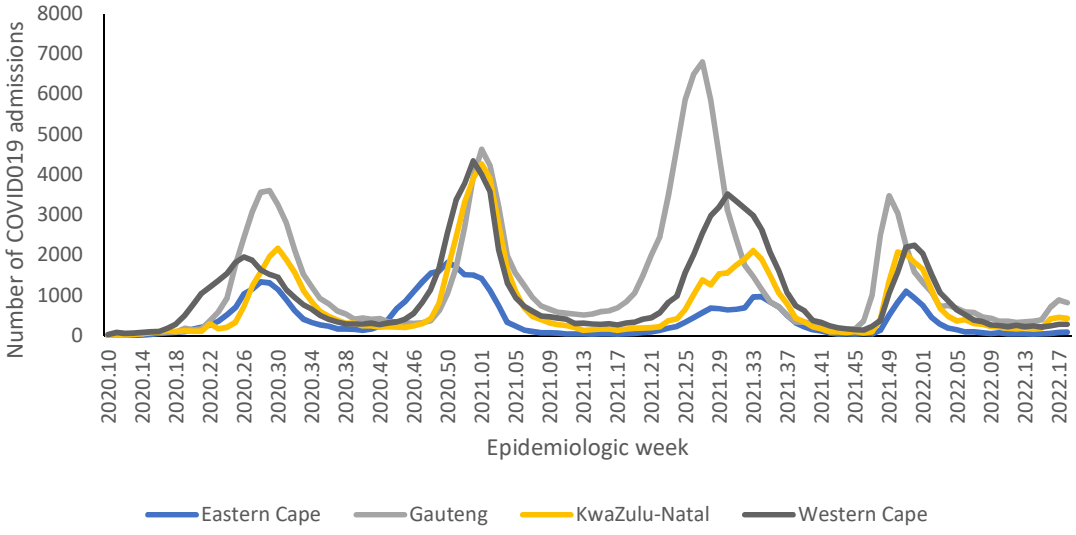

Figure 3a: Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-7 May 2022, N=522,899

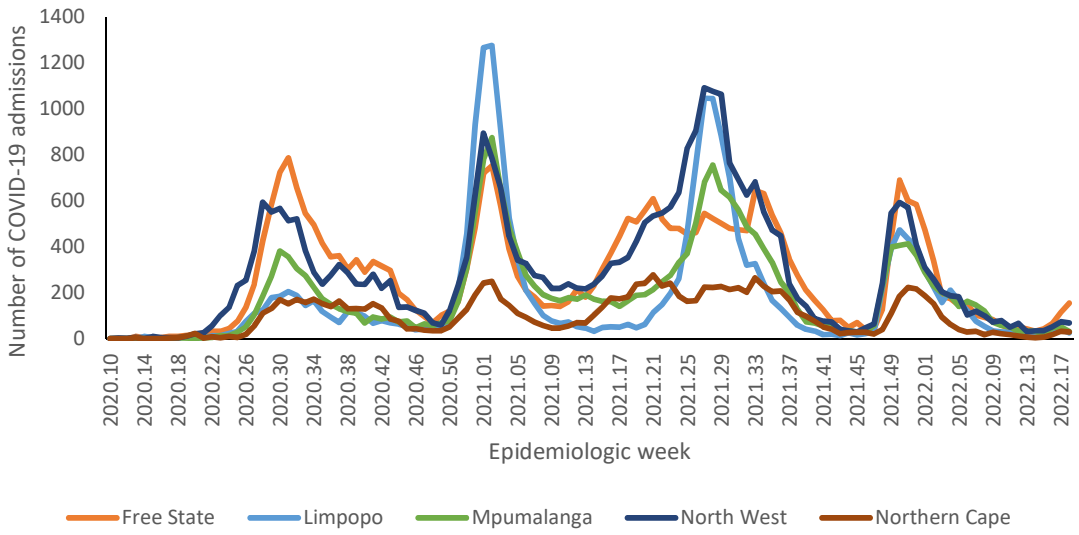

Figure 3b: Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-7 May 2022, N=522,899

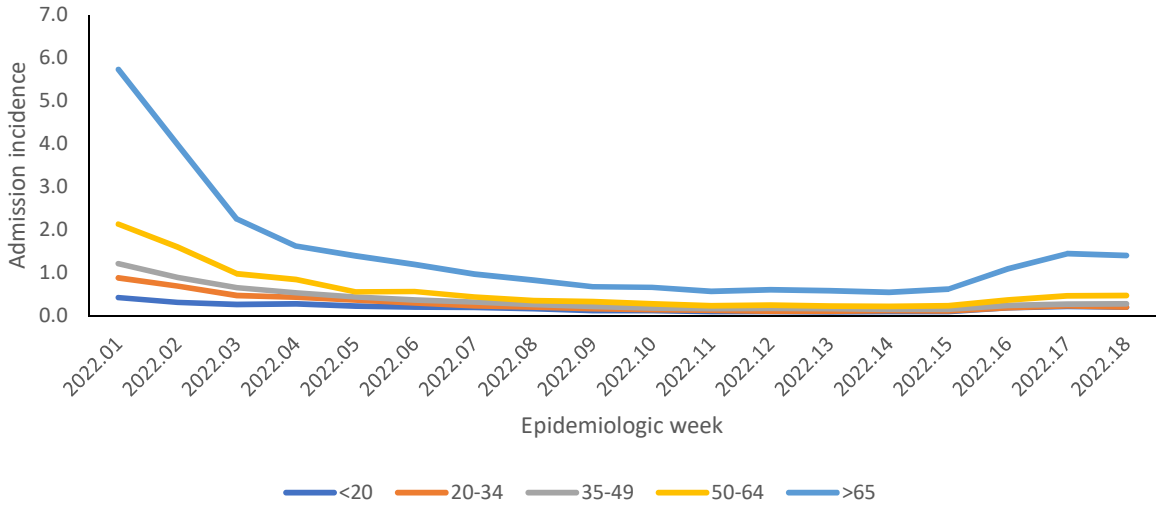

Figure 4a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week, South Africa, week 1-18 2022

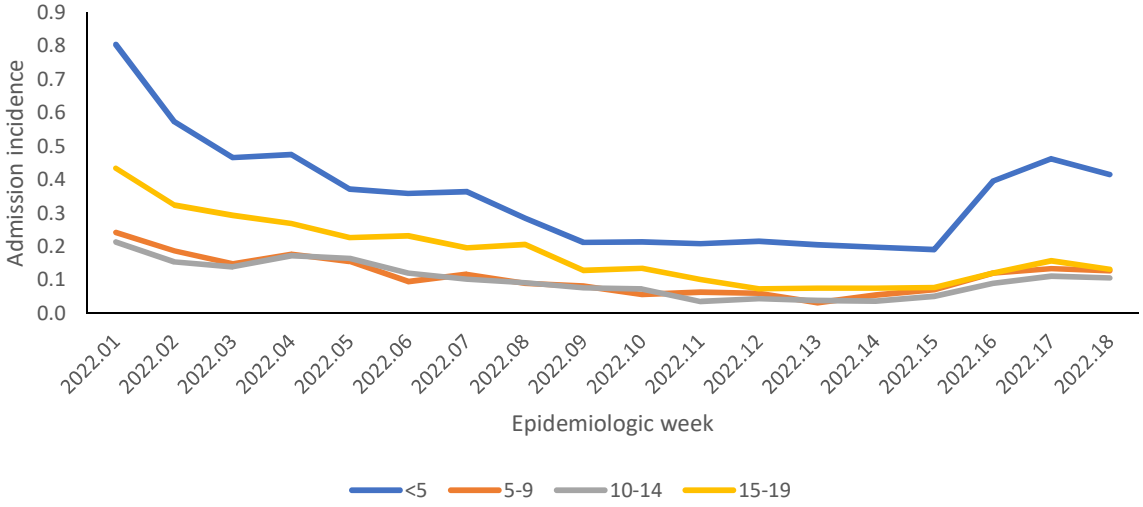

Figure 4b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years and epidemiologic week of diagnosis, South Africa, week 1-18 2022

Epidemiological and demographic trends in in-hospital mortality

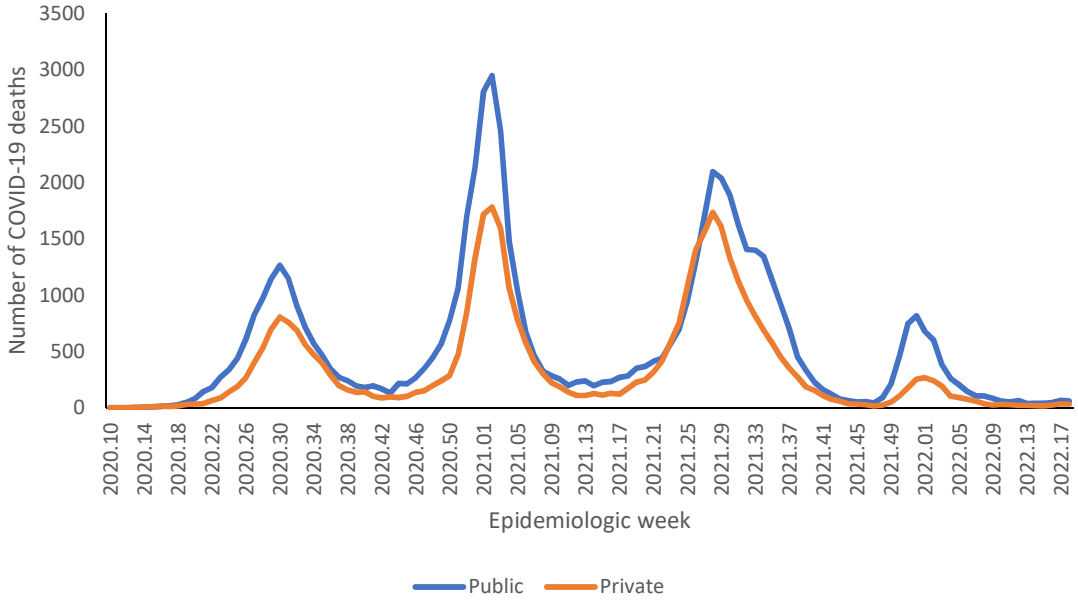

Figure 5: Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-7 May 2022, N=102,423

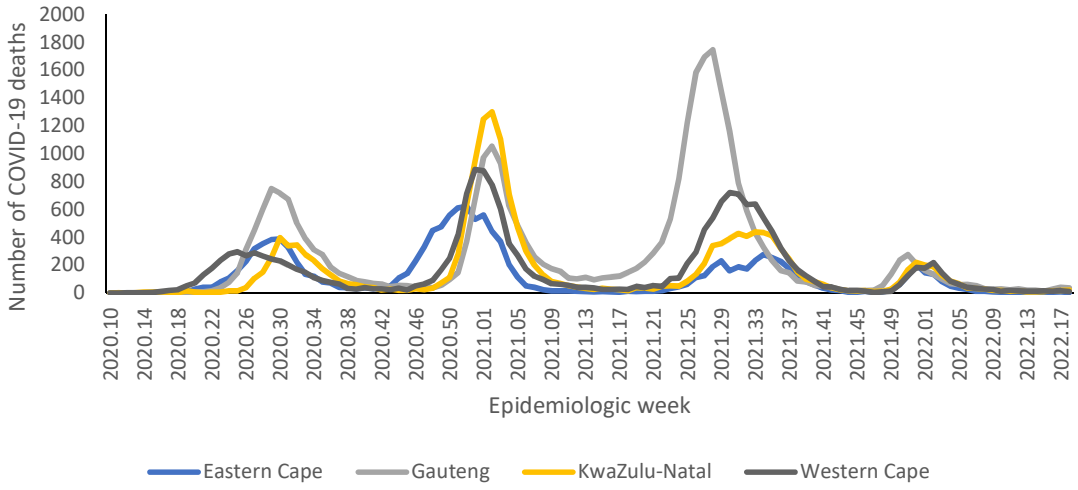

Figure 6a: Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-7 May 2022, N=102,423

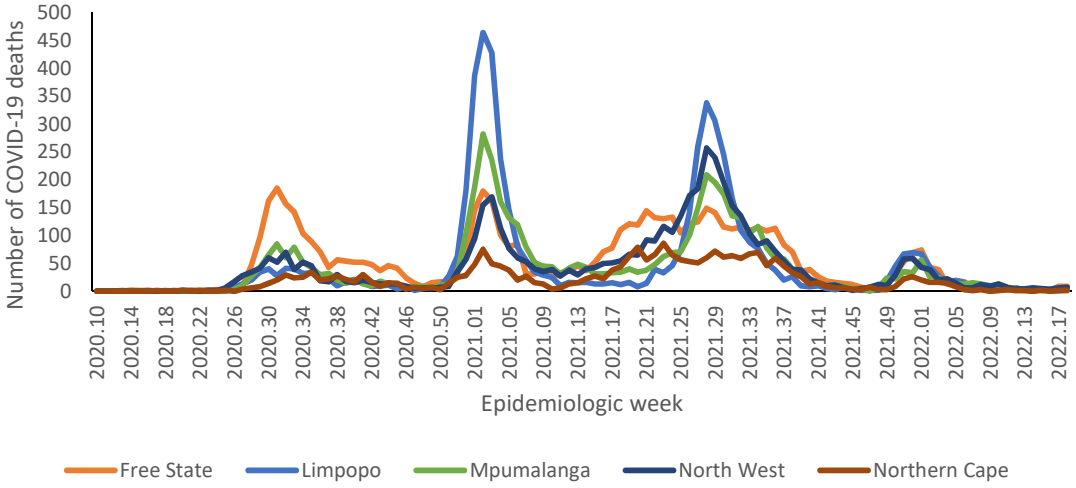

Figure 6b: Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-7 May 2022, N=102,423

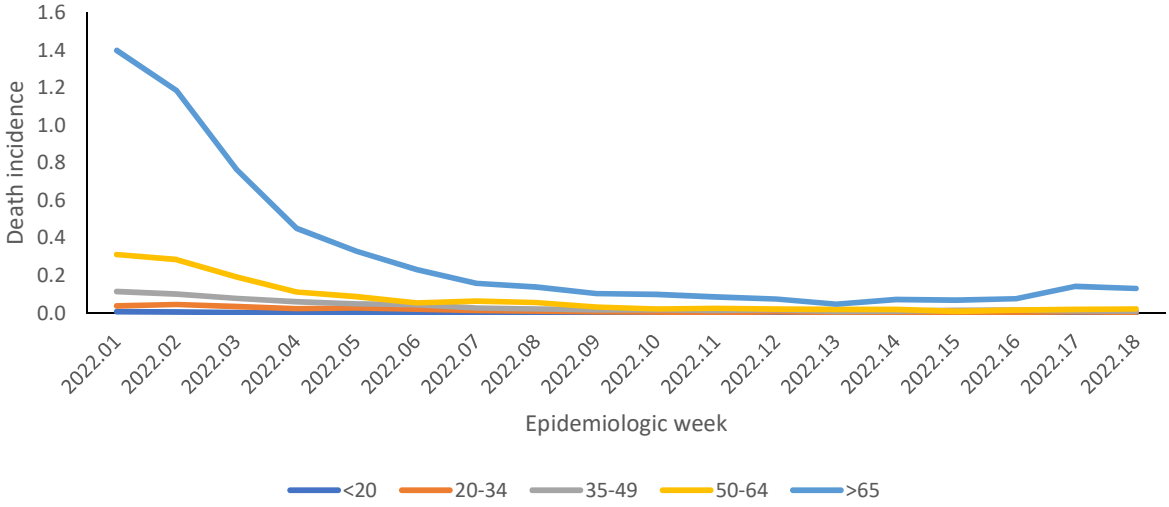

Figure 7a: Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, by age group (years) and epidemiologic week of death, South Africa, week 1-18 2022

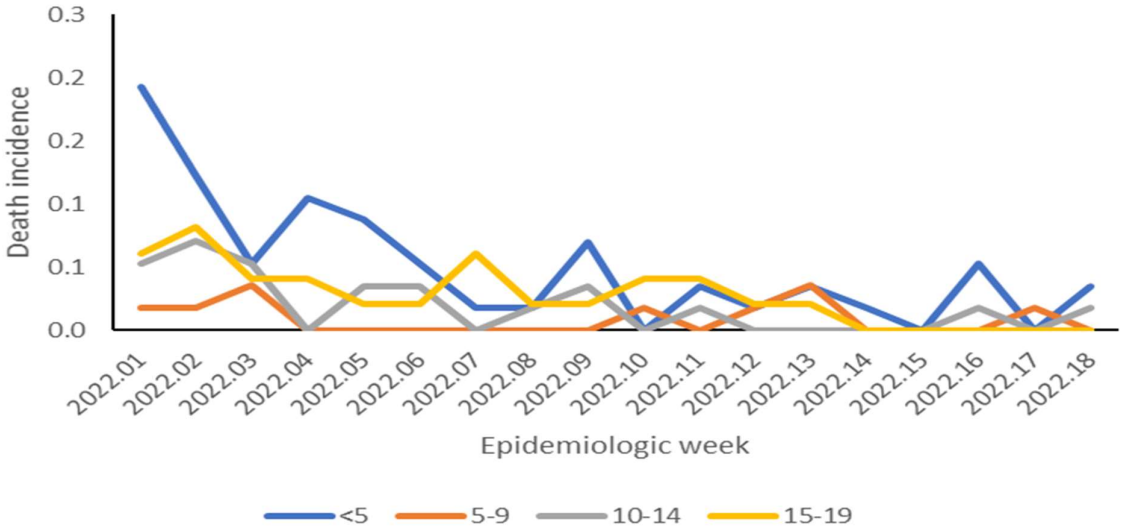

Figure 7b: Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of death, South Africa, week 1-18 2022

Provincial trends

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 2020-7 May 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	47548	712.2	13135	196.7
Free State	2932441	31314	1067.8	6032	205.7
Gauteng	15810388	153 117	968.5	29946	189.4
KwaZulu-Natal	11513575	85807	745.3	17235	149.7
Limpopo	5926724	20845	351.7	5313	89.6
Mpumalanga	4743584	22263	469.3	4827	101.8
North West	4122854	33 443	811.2	4886	118.5
Northern Cape	1303047	11 565	887.5	2430	186.5
Western Cape	7113776	116 997	1644.7	18616	261.7
South Africa	**60142978**	**522 899**	**869.4**	**102 420**	**170.3**

*StatsSA mid-year population estimates 2020

Table 3: Previous 14 days and current 14 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 09 April-7 May 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	6.86	11.79	71.88	0.64	0.79	22.22
Free State	7.79	19.29	147.71	0.43	1.29	200.00
Gauteng	78.36	121.57	55.15	2.86	5.43	90.00
KwaZulu-Natal	43.21	62.57	44.79	1.79	2.64	48.00
Limpopo	2.93	4.86	65.85	0.36	0.36	0.00
Mpumalanga	4.93	5.79	17.39	0.29	0.21	-25.00
North West	6.07	10.21	68.24	0.64	0.93	44.44
Northern Cape	1.79	4.36	144.00	0.14	0.21	50.00
Western Cape	32.64	40.07	22.76	1.93	1.79	-7.41

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

Table 4: Previous 7 days and current 7 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 23 April-7 May 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	11.00	12.57	14.29	1.00	0.57	-42.86
Free State	16.43	22.14	34.78	1.29	1.29	0.00
Gauteng	126.71	116.43	-8.12	5.86	5.00	-14.63
KwaZulu-Natal	64.57	60.57	-6.19	2.43	2.86	17.65
Limpopo	6.00	3.71	-38.10	0.14	0.57	300.00
Mpumalanga	7.29	4.29	-41.18	0.29	0.14	-50.00
North West	10.57	9.86	-6.76	0.86	1.00	16.67
Northern Cape	4.57	4.14	-9.37	0.14	0.29	100.00
Western Cape	40.14	40.00	-0.36	2.29	1.29	-43.75

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

Eastern Cape

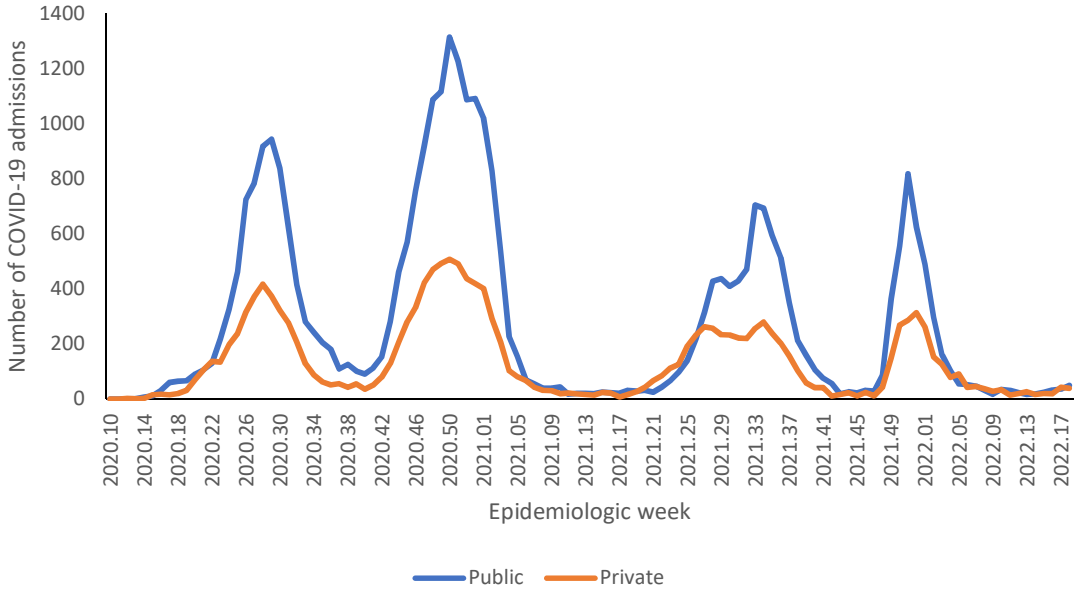

Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-7 May 2022, N=47,548

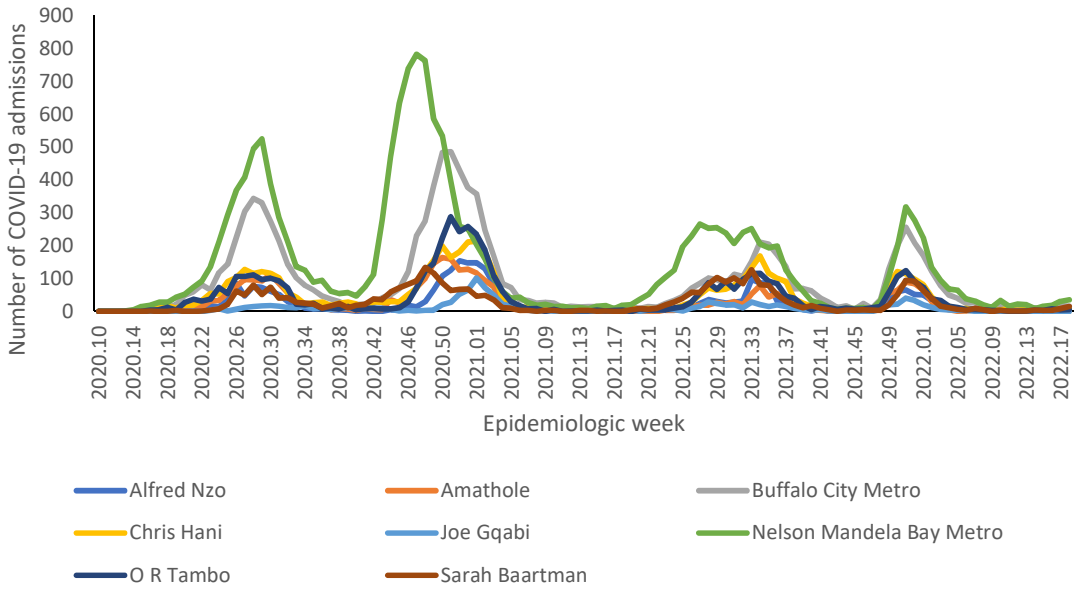

Figure 9: Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-7 May 2022, N=47,548

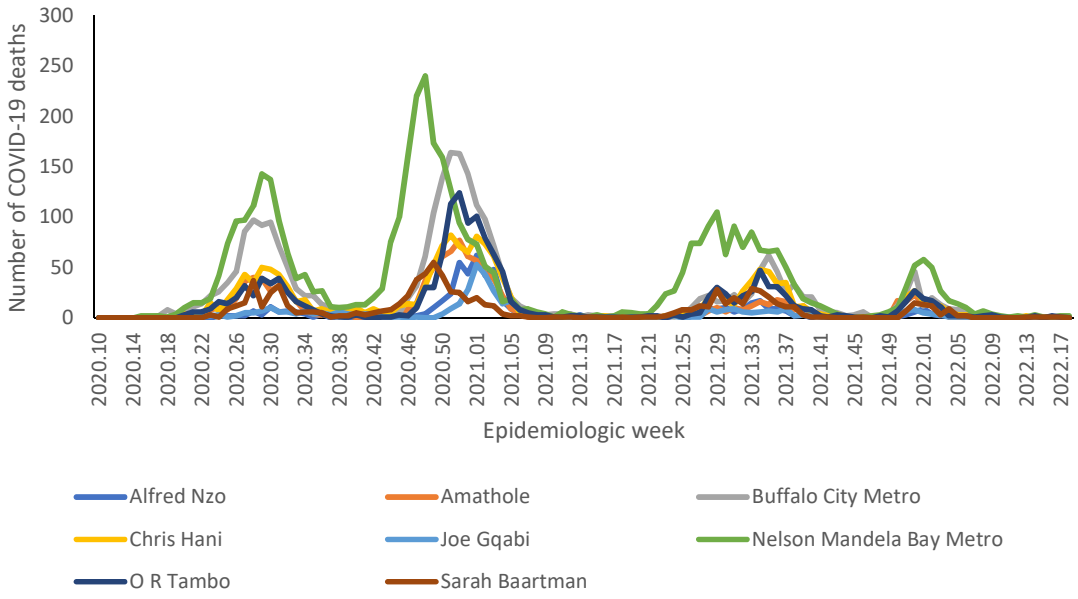

Figure 10: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-7 May 2022, N=13,135

Table 5: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 09 April-7 May 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	0.29	0.86	200.00	0.00	0.00	0.00
Amathole	0.43	0.36	-16.67	0.14	0.00	-100.00
Buffalo City Metro	1.71	2.43	41.67	0.07	0.21	200.00
Chris Hani	0.64	1.00	55.56	0.00	0.14	0.00
Joe Gqabi	0.07	0.00	-100.00	0.00	0.00	0.00
Nelson Mandela Bay	2.50	4.64	85.71	0.14	0.29	100.00
O R Tambo	0.79	0.79	0.00	0.14	0.07	-50.00
Sarah Baartman	0.43	1.71	300.00	0.14	0.07	-50.00

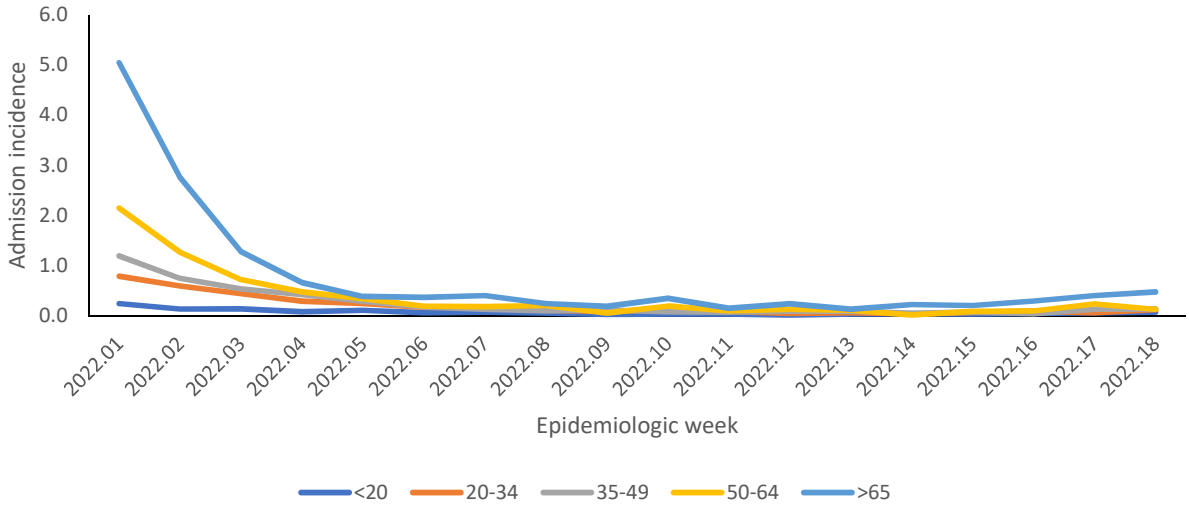

Figure 11a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Eastern Cape, week 1-18 2022

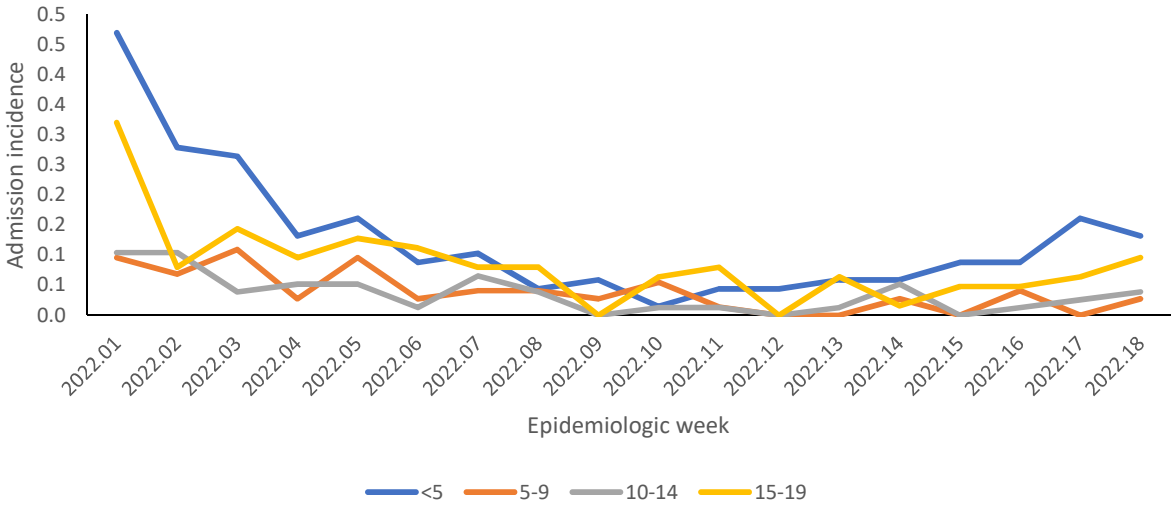

Figure 11b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Eastern Cape, week 1-18 2022

Free State

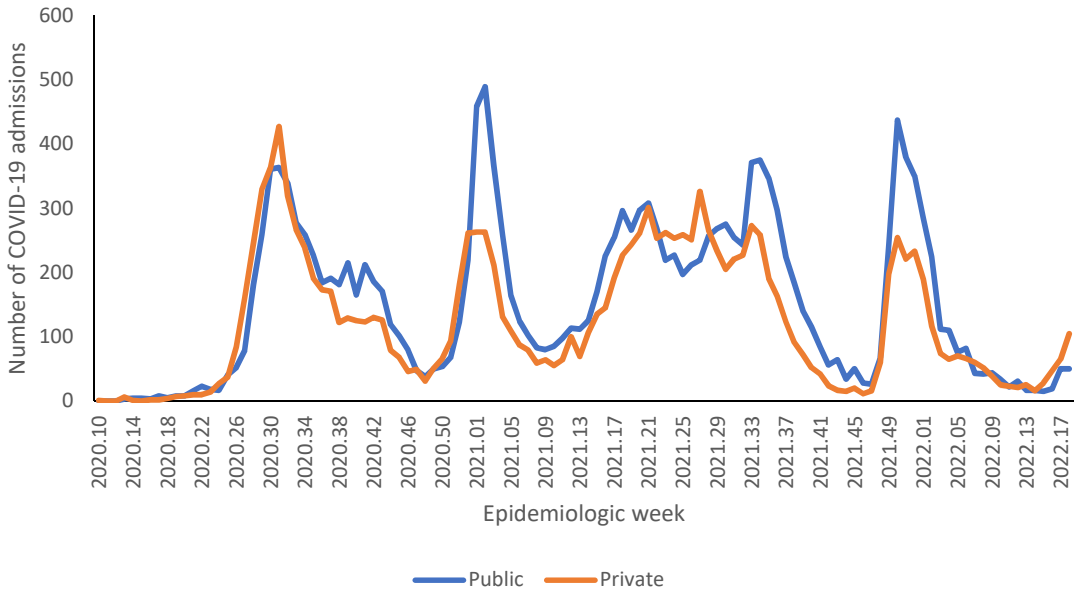

Figure 12: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-7 May 2022, N=31,314

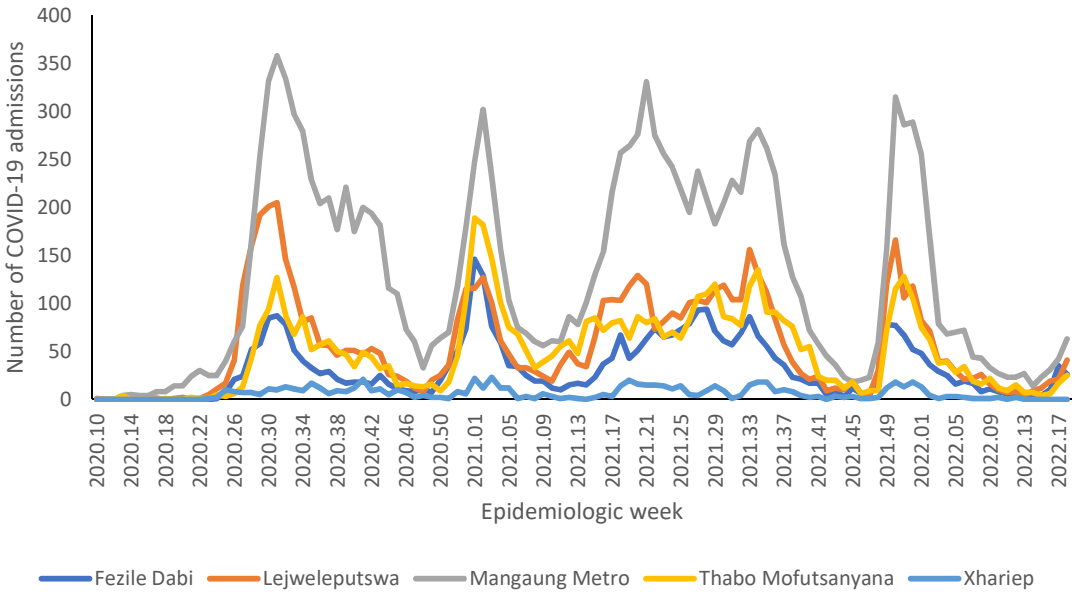

Figure 13: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-7 May 2022, N=31,314

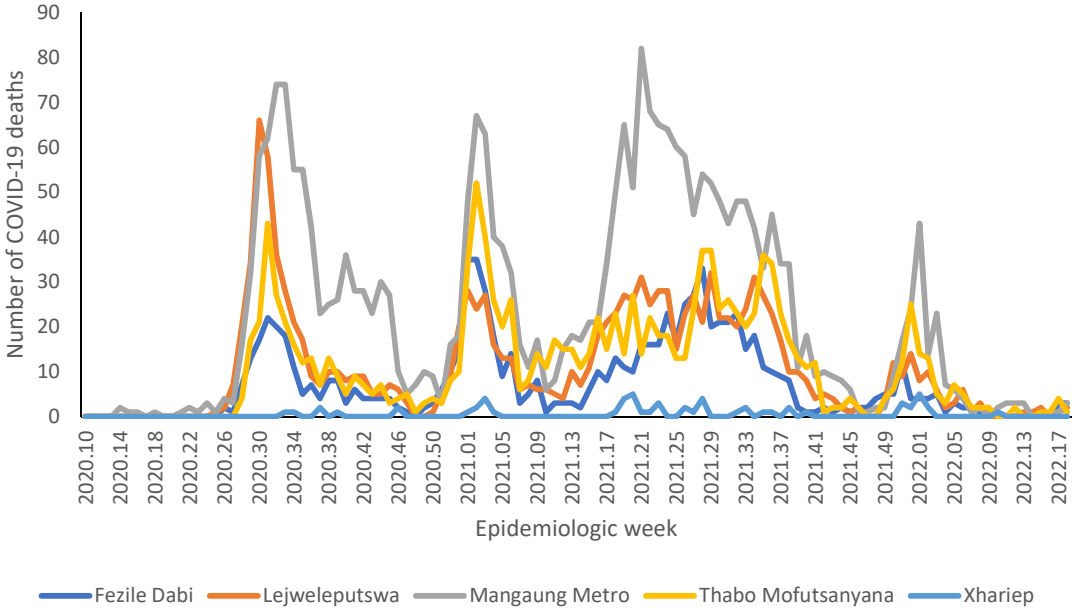

Figure 14: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-7 May 2022, N=6,032

Table 6: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 09 April-7 May 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	1.00	4.36	335.71	0.07	0.43	500.00
Lejweleputswa	2.21	4.43	100.00	0.14	0.21	50.00
Mangaung Metro	3.86	7.50	94.44	0.07	0.29	300.00
Thabo Mofutsanyana	0.71	3.00	320.00	0.14	0.36	150.00
Xhariep	0.00	0.00	0.00	0.00	0.00	0.00

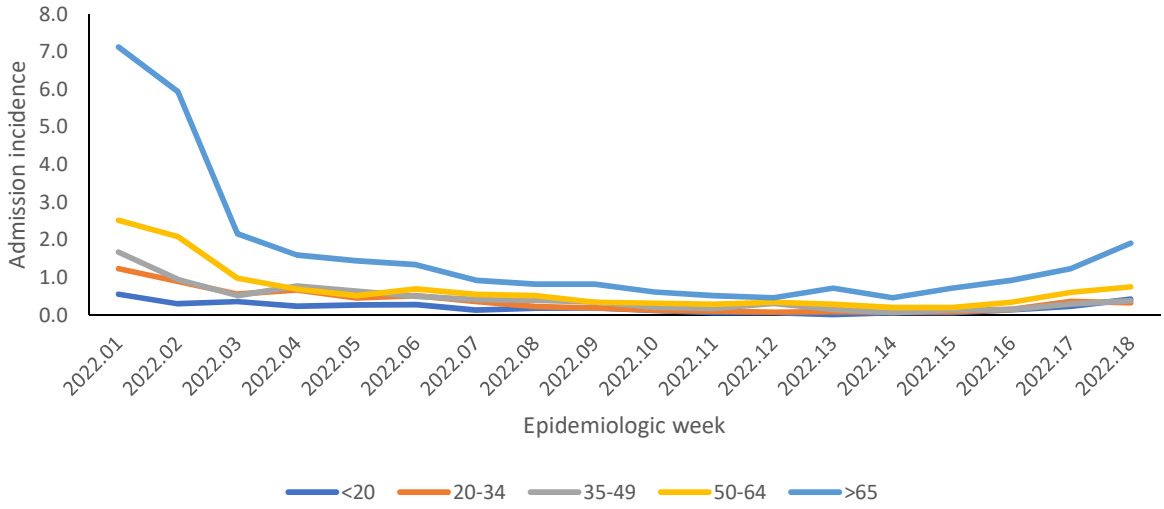

Figure 15a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Free State, week 1-18 2022

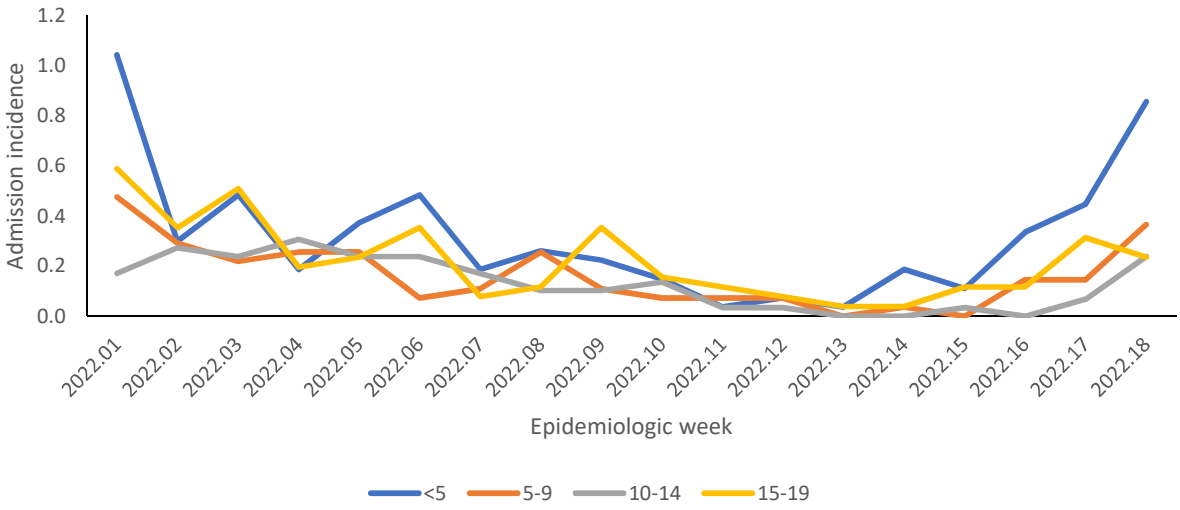

Figure 15b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Free State, week 1-18 2022

Gauteng

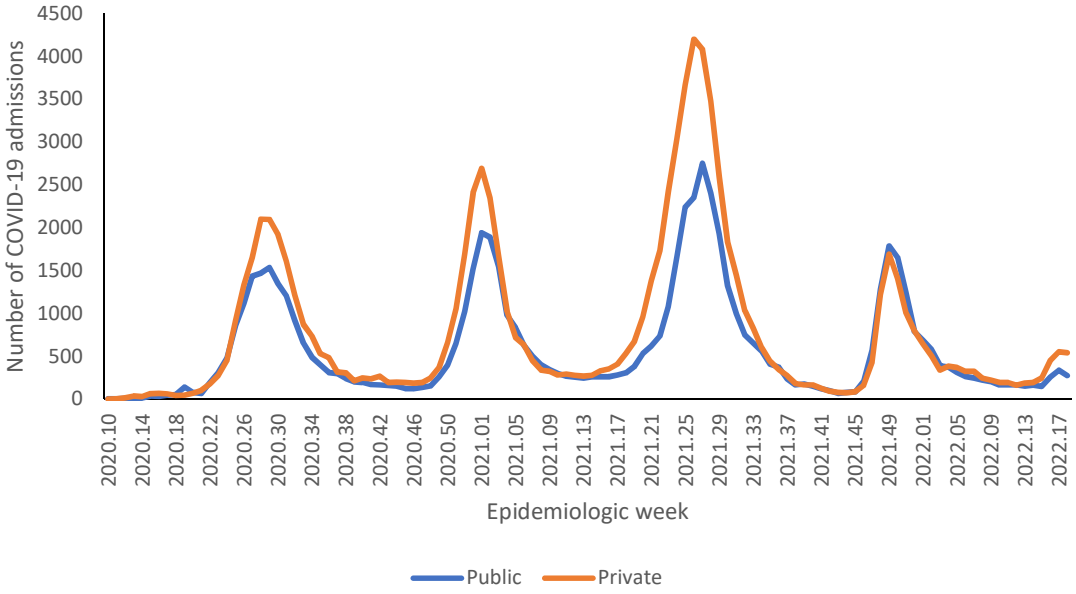

Figure 16: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-7 May 2022, N=153,117

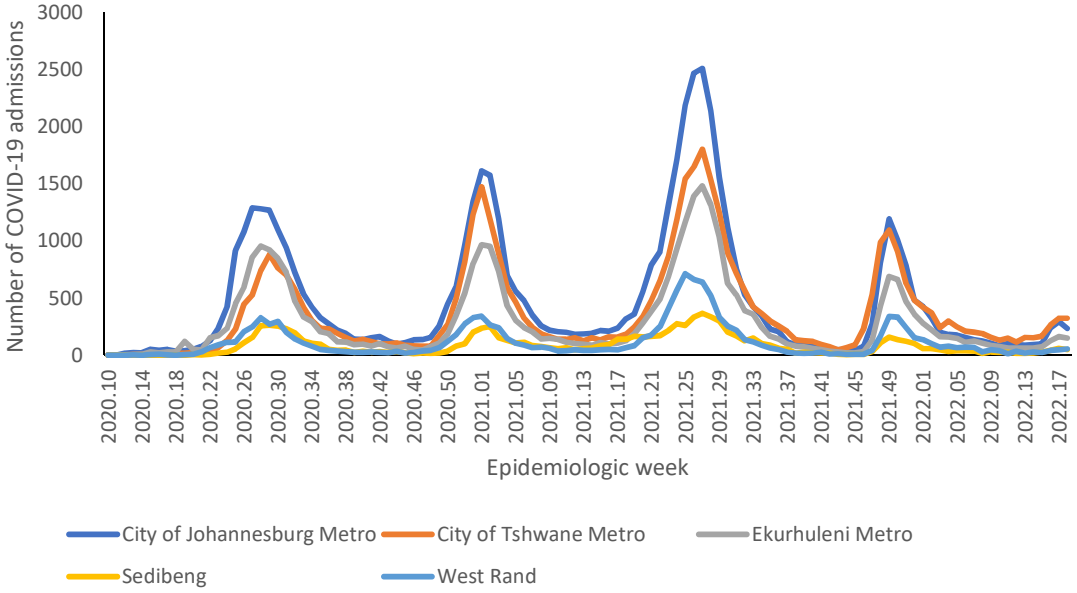

Figure 17: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-7 May 2022, N=153,117

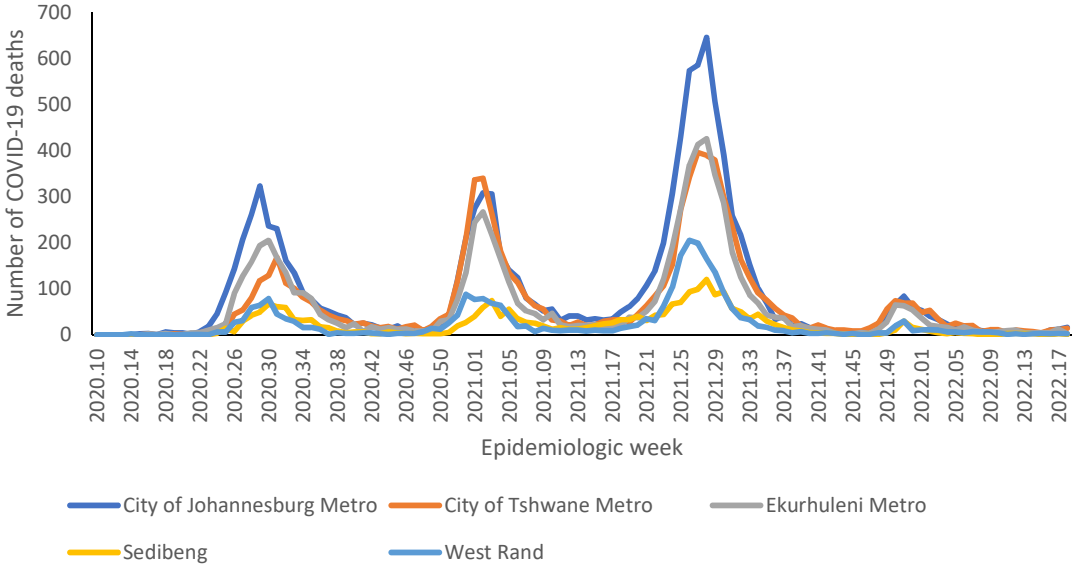

Figure 18: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-7 May 2022, N=29,946

Table 7: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 09 April-7 May 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	24.00	37.79	57.44	0.79	2.00	154.55
City of Tshwane Metro	30.71	46.29	50.70	1.00	1.79	78.57
Ekurhuleni Metro	14.21	22.43	57.79	0.64	1.07	66.67
Sedibeng	4.86	7.79	60.29	0.07	0.21	200.00
West Rand	4.57	7.29	59.38	0.36	0.36	0.00

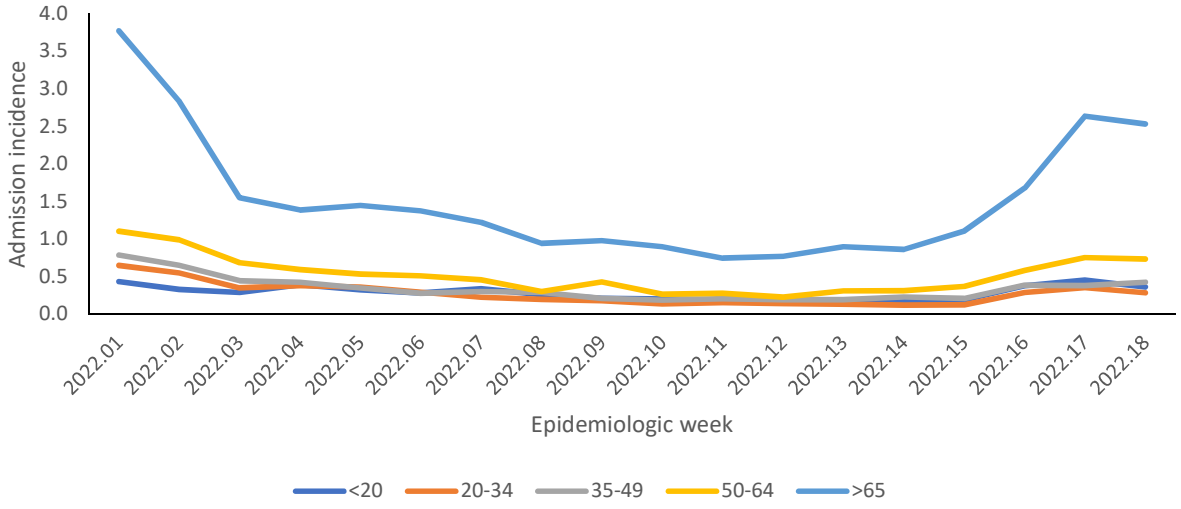

Figure 19a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Gauteng, week 1-18 2022

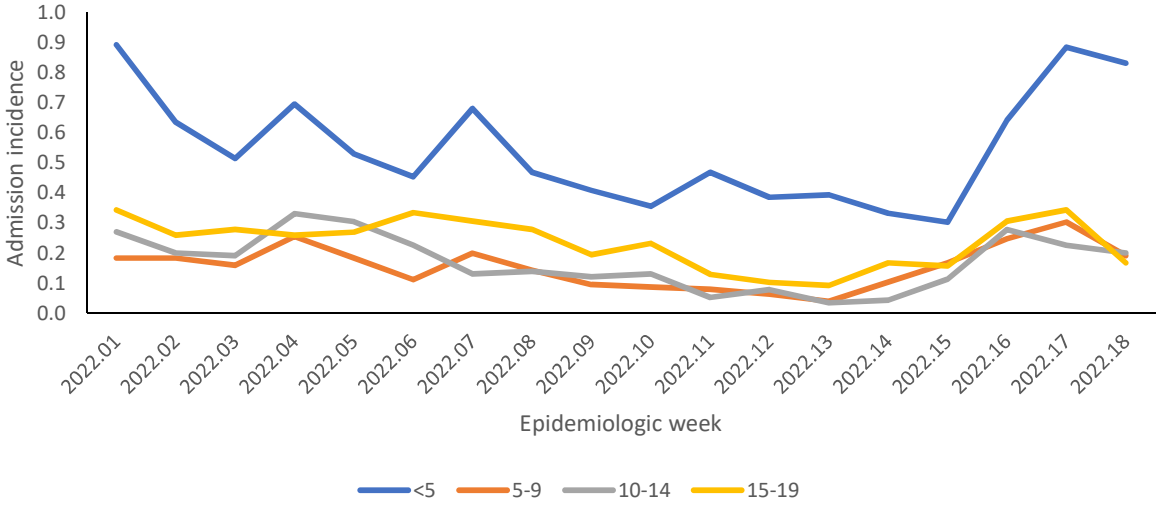

Figure 19b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Gauteng, week 1-18 2022

KwaZulu-Natal

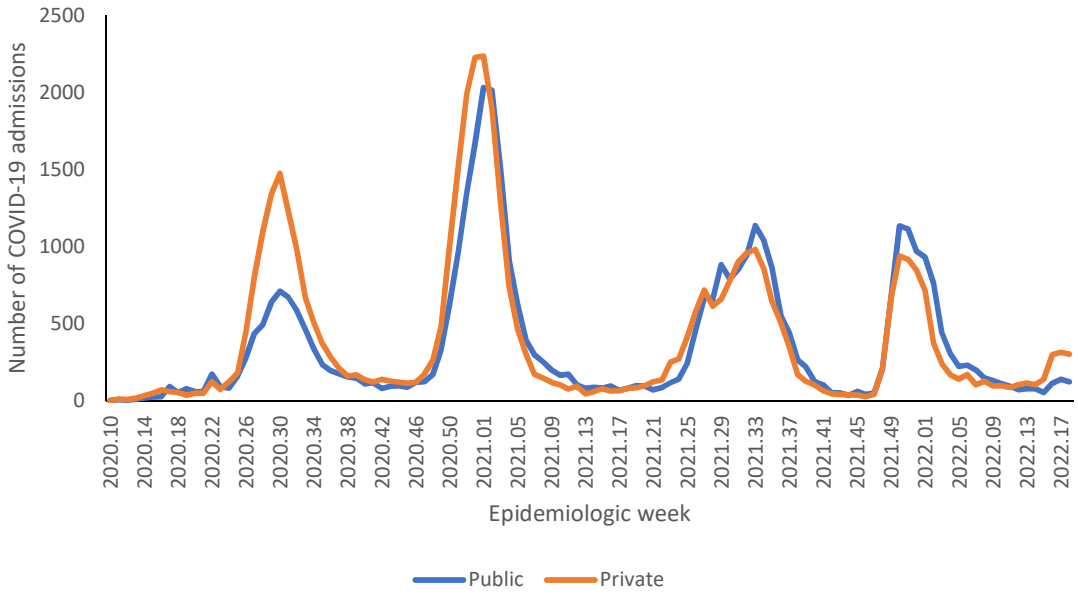

Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-7 May 2022, N=85,807

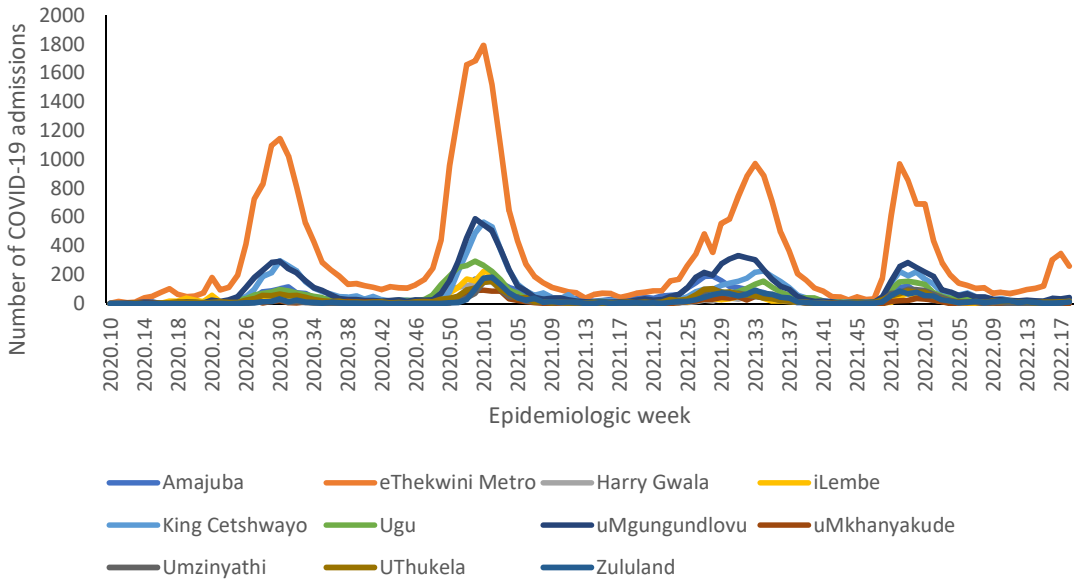

Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-7 May 2022, N=85,807

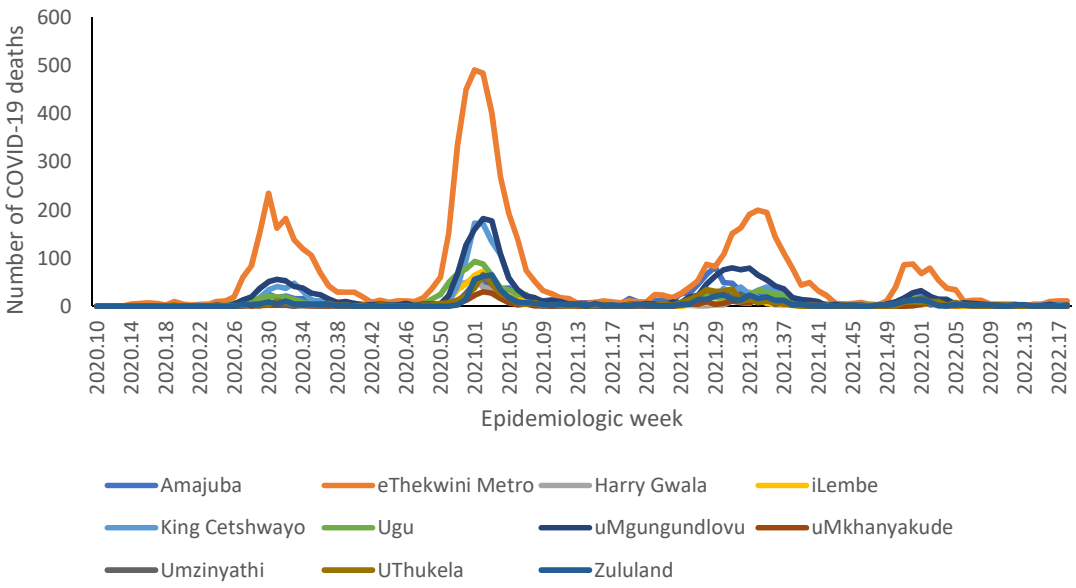

Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-7 May 2022, N=17,237

Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 09 April-7 May 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	1.21	1.36	11.76	0.00	0.14	0.00
eThekwini Metro	30.50	43.21	41.69	1.00	1.57	57.14
Harry Gwala	0.14	1.07	650.00	0.07	0.00	-100.00
iLembe	0.64	1.21	88.89	0.00	0.14	0.00
King Cetshwayo	2.64	3.50	32.43	0.21	0.29	33.33
Ugu	1.57	2.07	31.82	0.00	0.07	0.00
uMgungundlovu	3.86	5.36	38.89	0.36	0.21	-40.00
uMkhanyakude	0.14	0.00	-100.00	0.00	0.00	0.00
Umzinyathi	0.50	1.57	214.29	0.00	0.07	0.00
UThukela	1.50	2.00	33.33	0.00	0.07	0.00
Zululand	0.50	1.21	142.86	0.14	0.07	-50.00

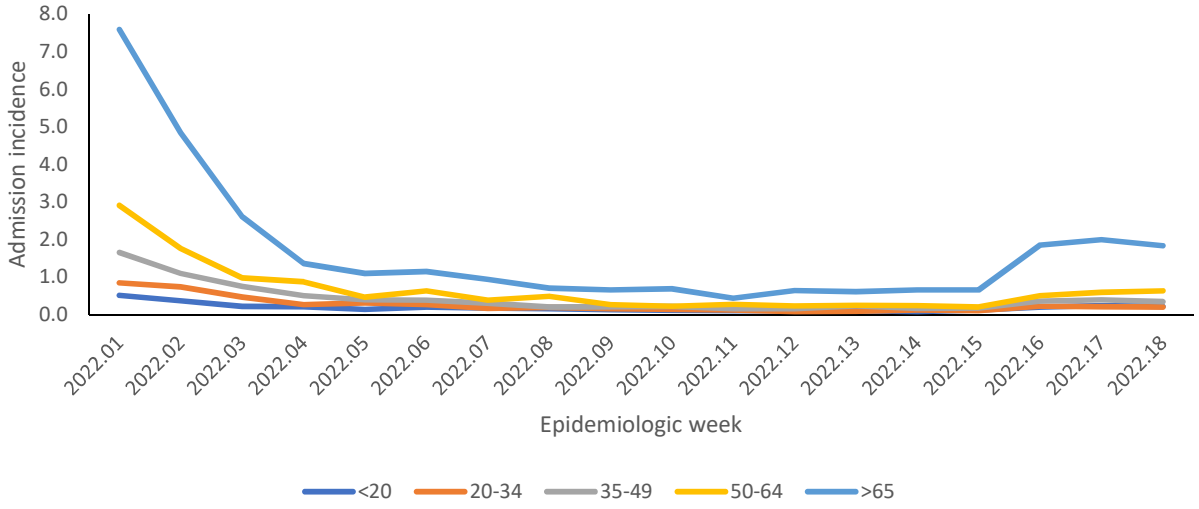

Figure 23a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-18 2022

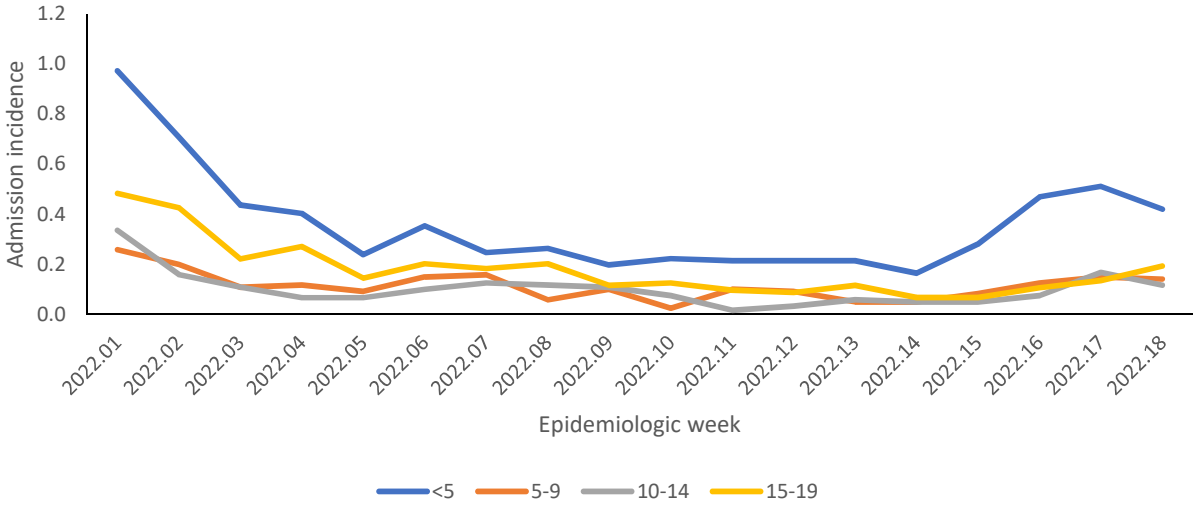

Figure 23b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-18 2022

Limpopo

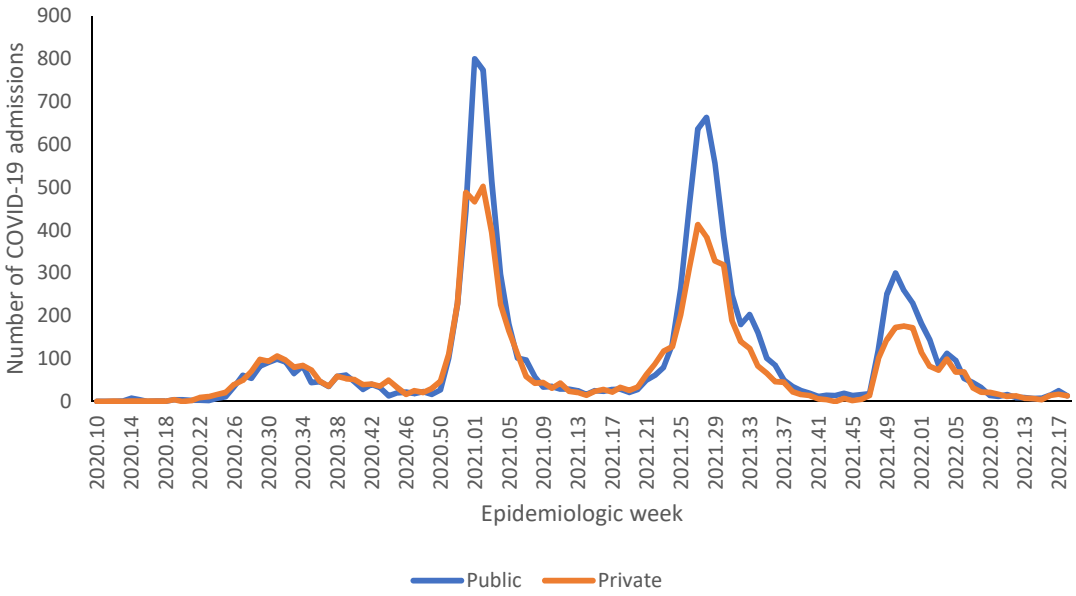

Figure 24: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-7 May 2022, N=20,845

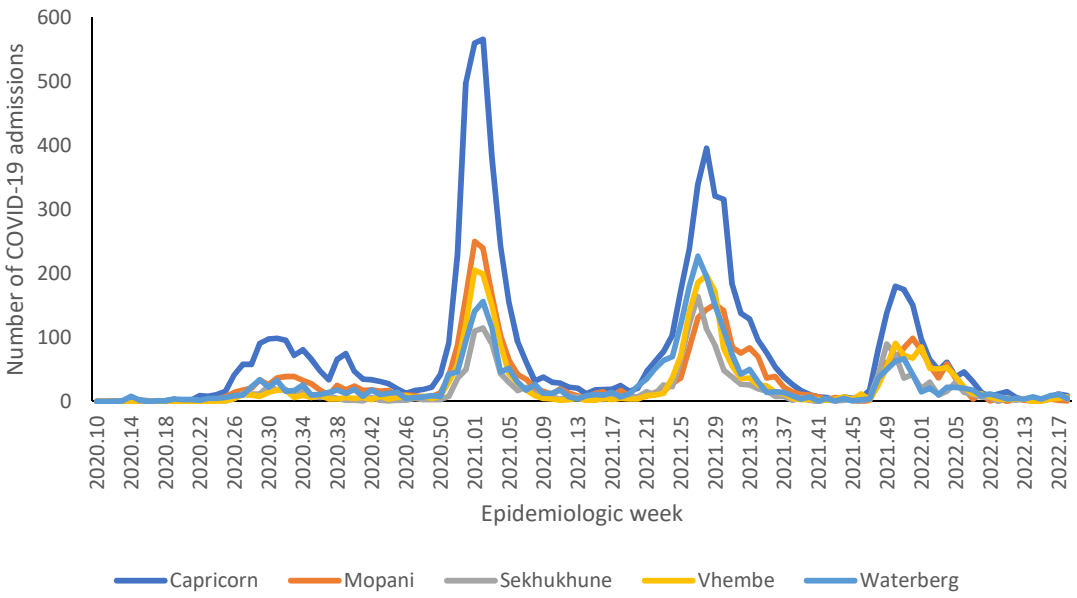

Figure 25: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-7 May 2022, N=20,845

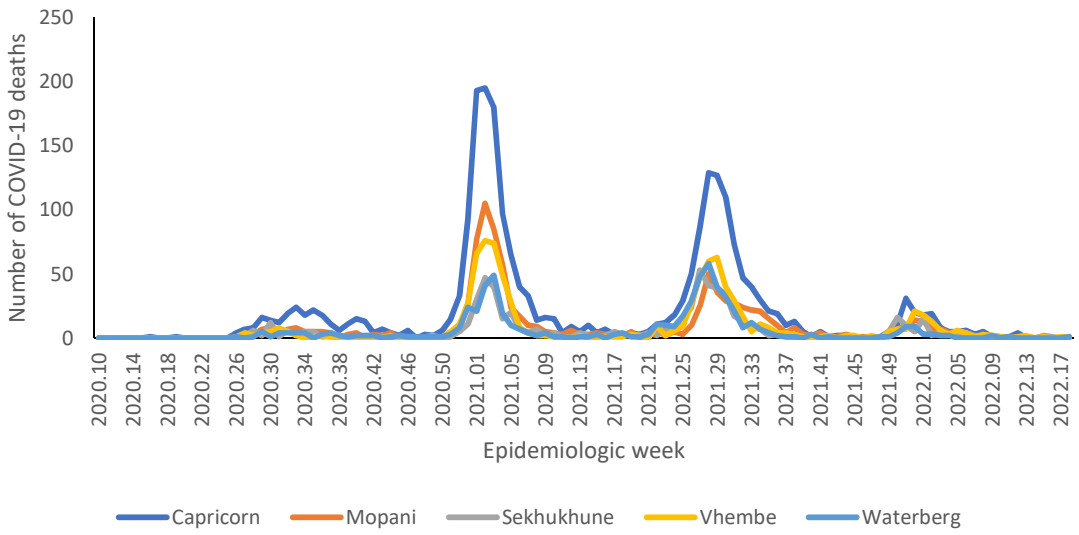

Figure 26: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-7 May 2022, N=5,313

Table 9: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 09 April-7 May 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	0.64	1.50	133.33	0.07	0.07	0.00
Mopani	0.36	0.21	-40.00	0.00	0.00	0.00
Sekhukhune	0.64	1.14	77.78	0.21	0.07	-66.67
Vhembe	0.36	0.86	140.00	0.07	0.14	100.00
Waterberg	0.93	1.14	23.08	0.00	0.07	0.00

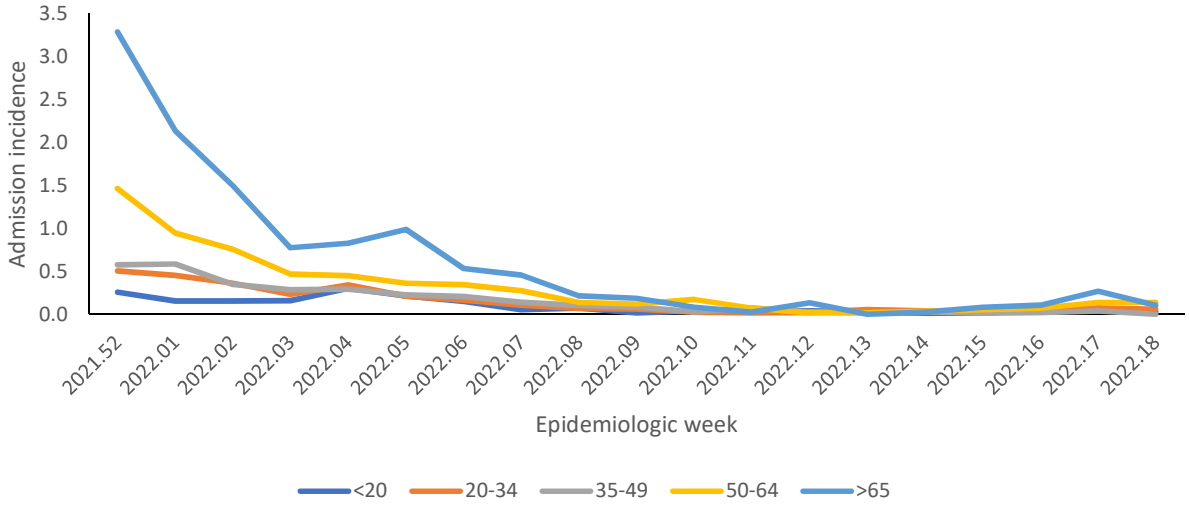

Figure 27a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Limpopo, week 1-18 2022

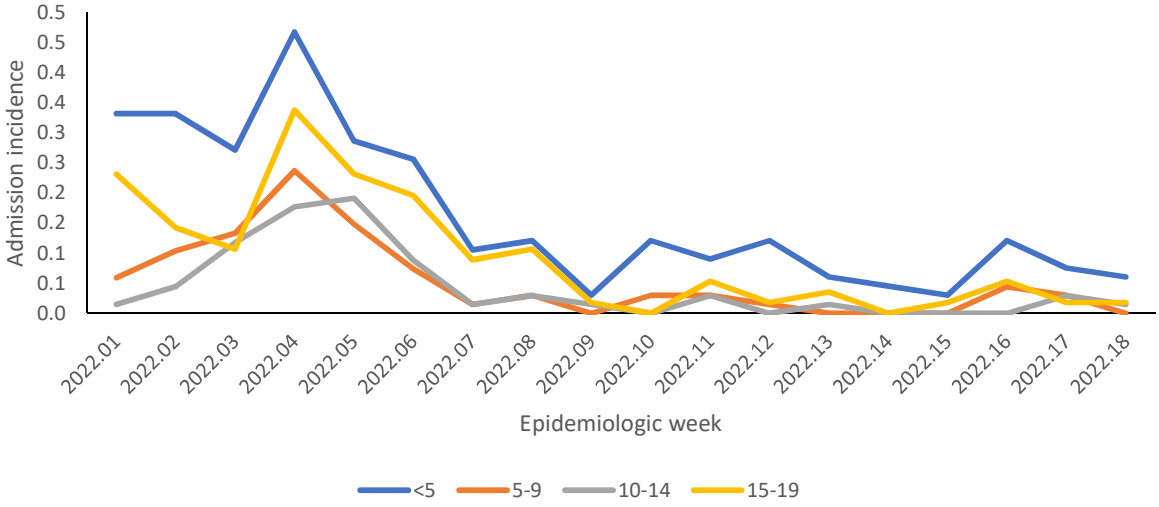

Figure 27b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Limpopo, week 1-18 2022

Mpumalanga

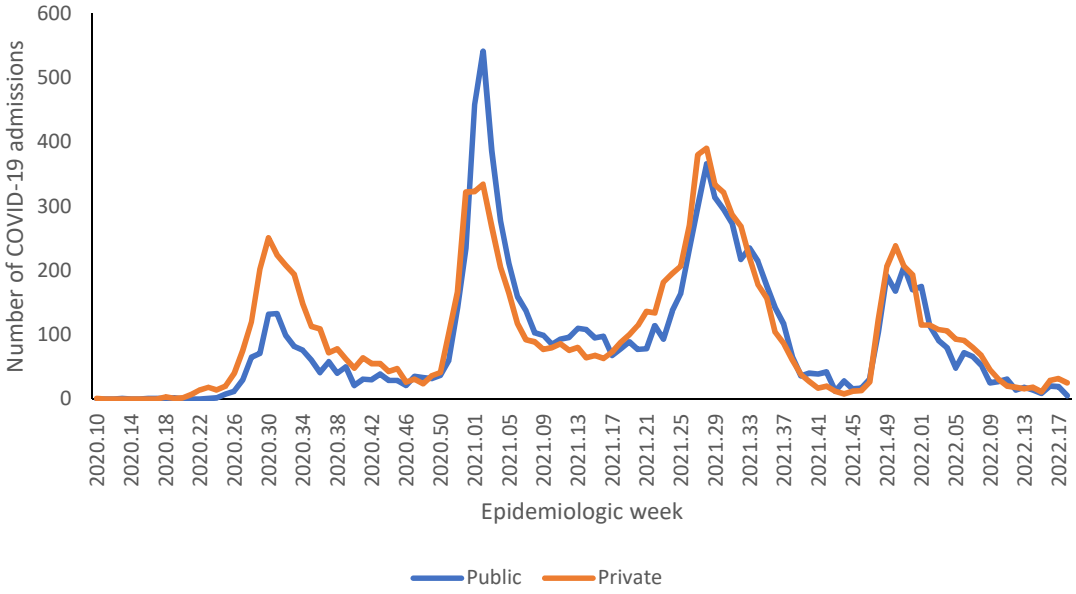

Figure 28: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-7 May 2022, N=22,263

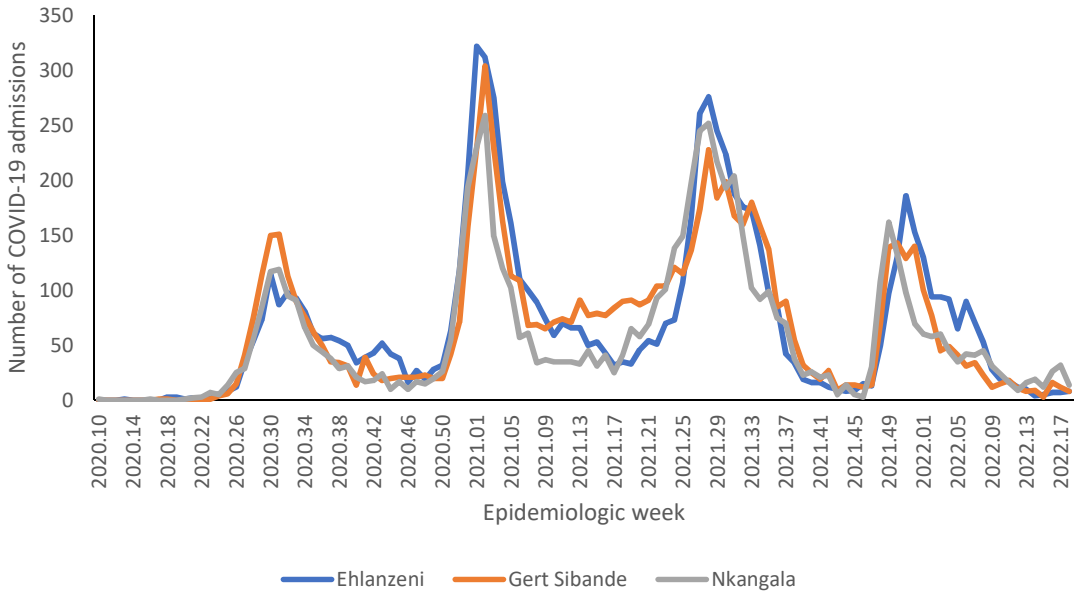

Figure 29: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-7 May 2022, N=22,263

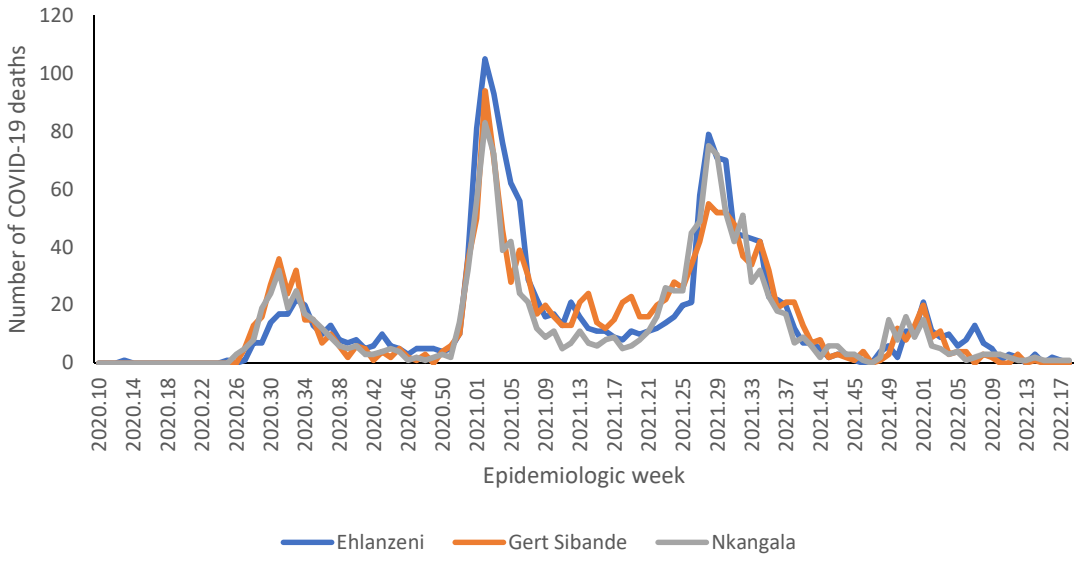

Figure 30: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-7 May 2022, N=4,827

Table 10: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 09 April-7 May 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	0.86	1.07	25.00	0.14	0.07	-50.00
Gert Sibande	1.36	1.43	5.26	0.00	0.00	0.00
Nkangala	2.71	3.29	21.05	0.14	0.14	0.00

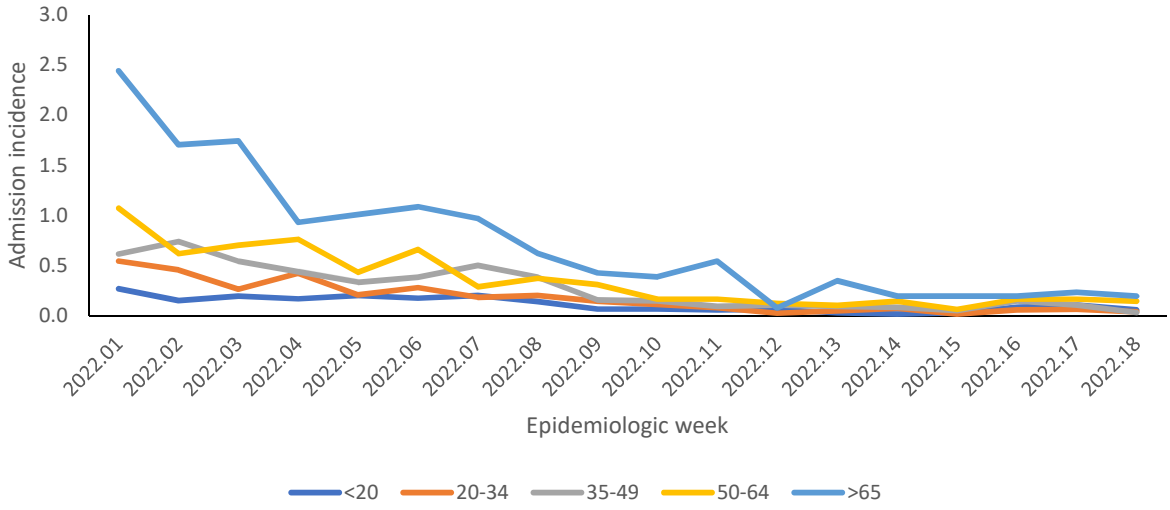

Figure 31a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Mpumalanga, week 1-18 2022

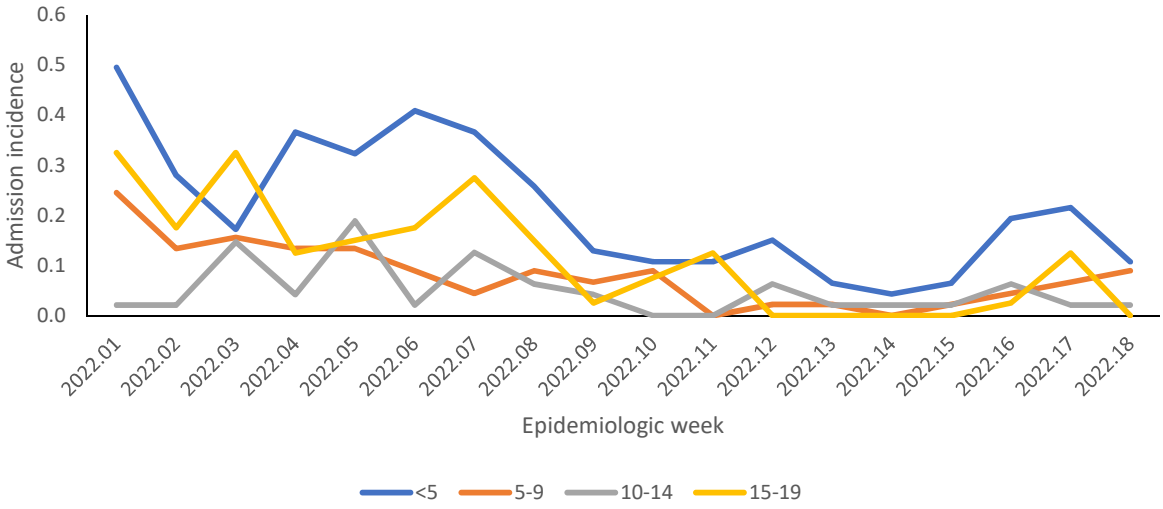

Figure 31b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Mpumalanga, week 1-18 2022

North West

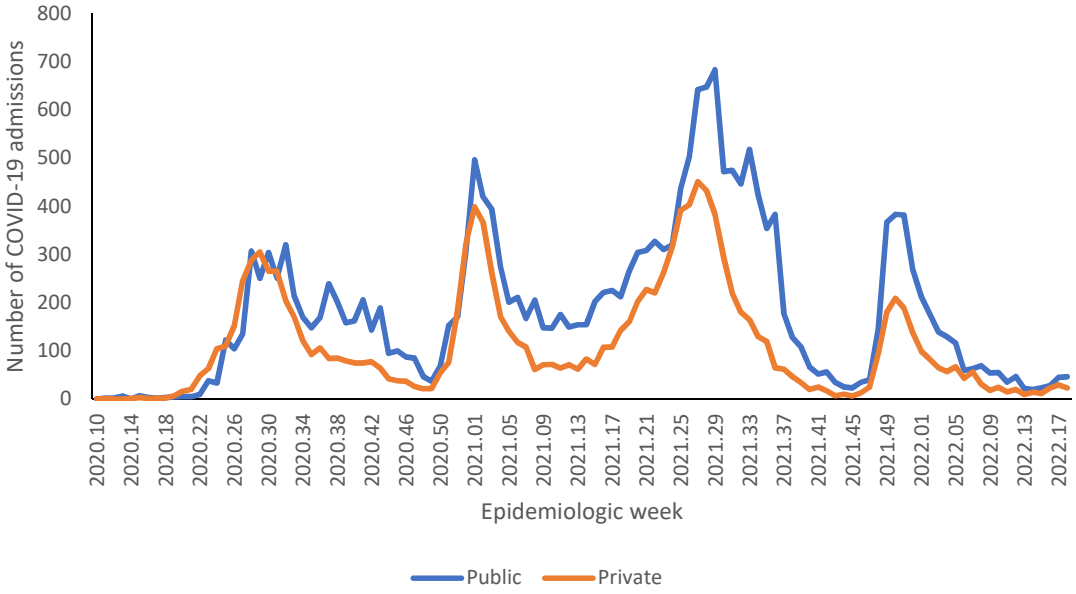

Figure 32: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-7 May 2022, N=33,443

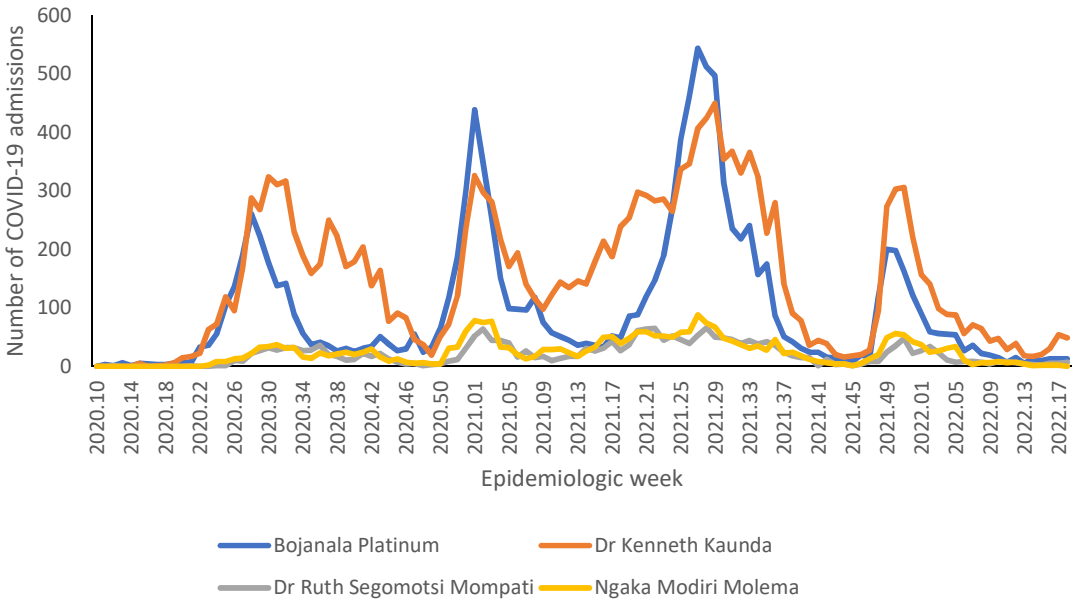

Figure 33: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-7 May 2022, N=33,443

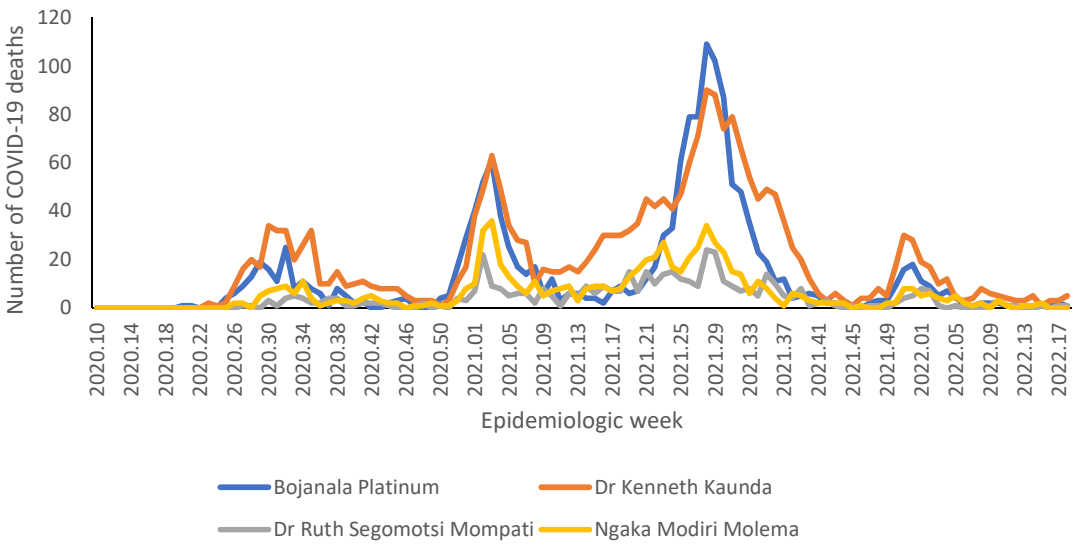

Figure 34: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-7 May 2022, N=4,886

Table 11: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 09 April-7 May 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	1.64	1.86	13.04	0.14	0.21	50.00
Dr Kenneth Kaunda	3.64	7.36	101.96	0.29	0.57	100.00
Dr Ruth Segomotsi Mompati	0.50	0.86	71.43	0.07	0.14	100.00
Ngaka Modiri Molema	0.29	0.14	-50.00	0.14	0.00	-100.00

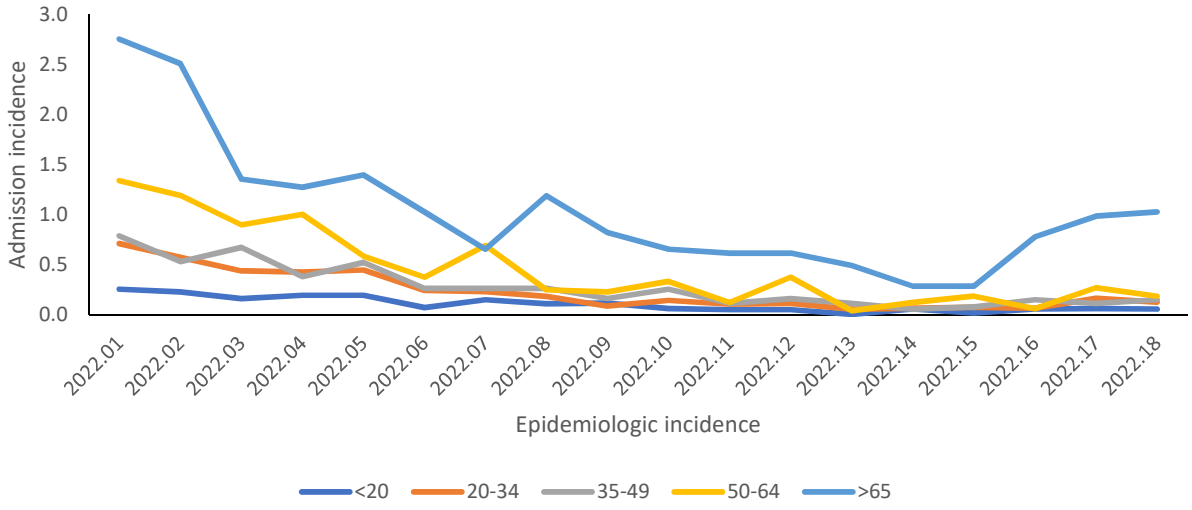

Figure 35a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, North West, week 1-18 2022

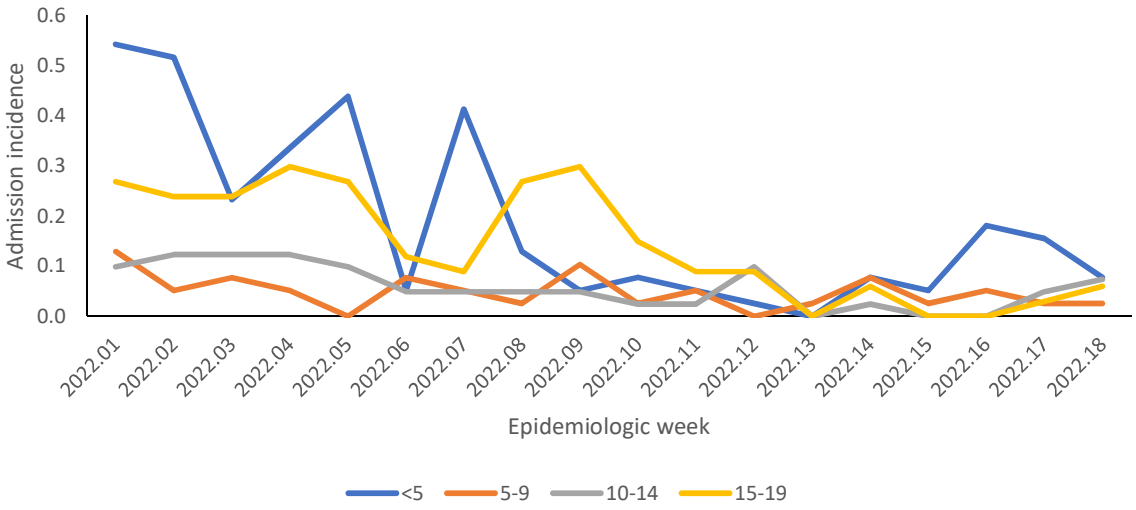

Figure 35b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, North West, week 1-18 2022

Northern Cape

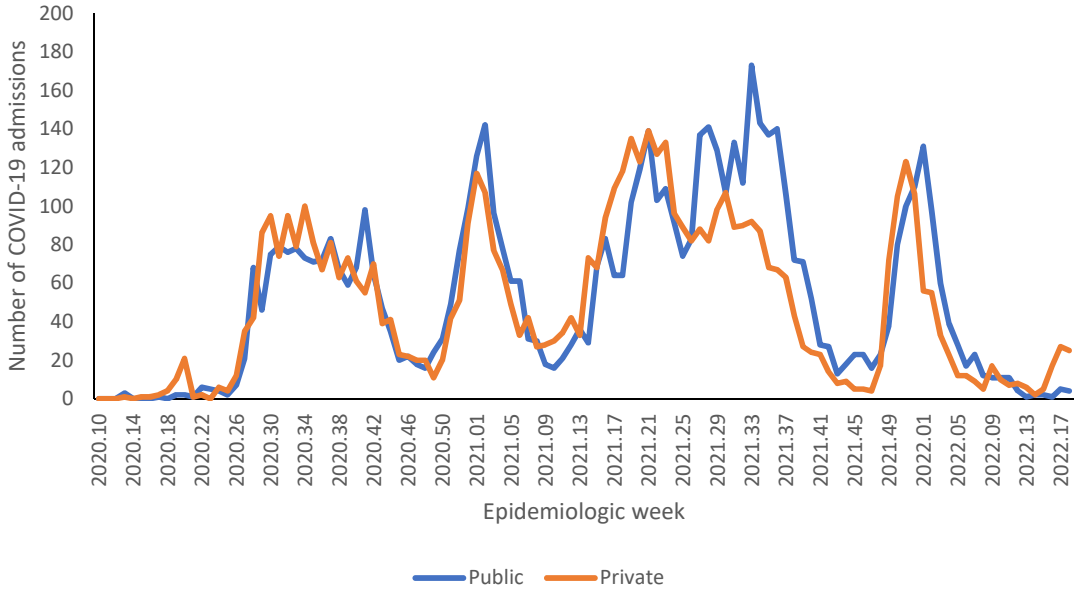

Figure 36: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-7 May 2022, N=11,565

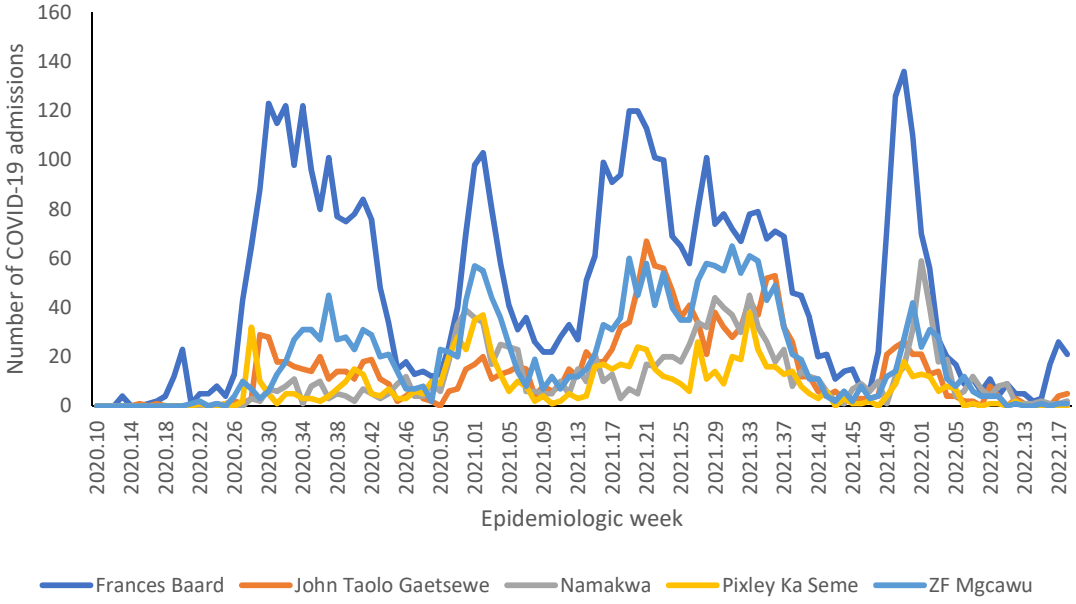

Figure 37: Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-7 May 2022, N=11,565

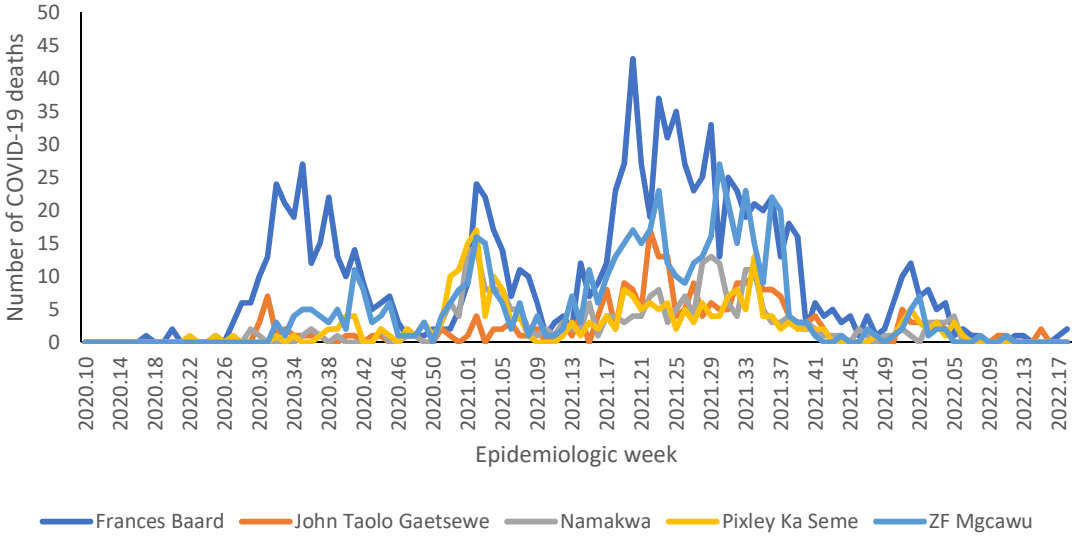

Figure 38: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-7 May 2022, N=2,430

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 09 April-7 May 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	1.43	3.36	135.00	0.00	0.21	0.00
John Taolo Gaetsewe	0.07	0.64	800.00	0.14	0.00	-100.00
Namakwa	0.21	0.21	0.00	0.00	0.00	0.00
Pixley Ka Seme	0.00	0.00	0.00	0.00	0.00	0.00
ZF Mgcawu	0.07	0.14	100.00	0.00	0.00	0.00

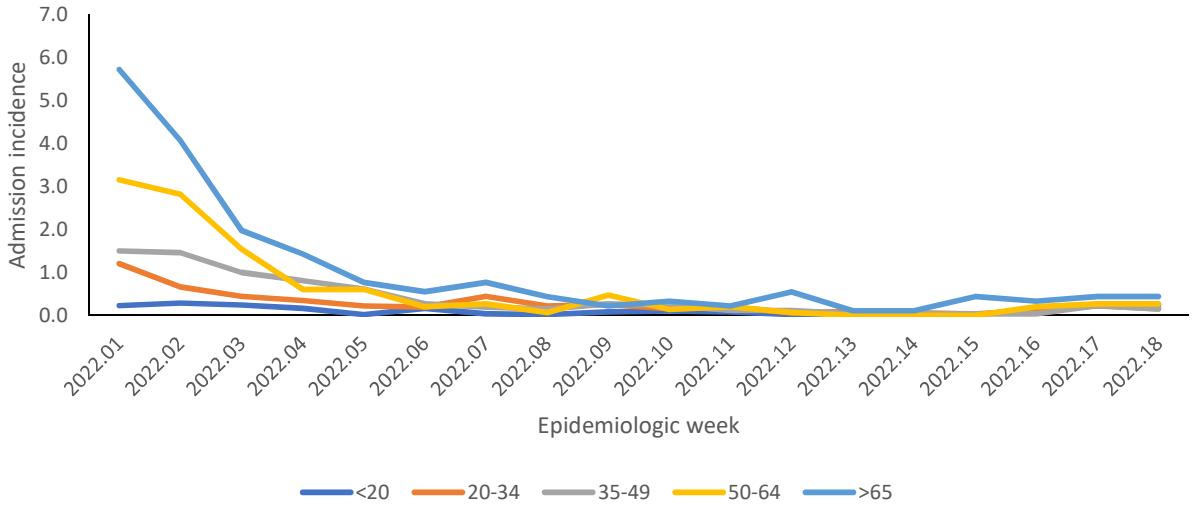

Figure 39a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Northern Cape, week 1-18 2022

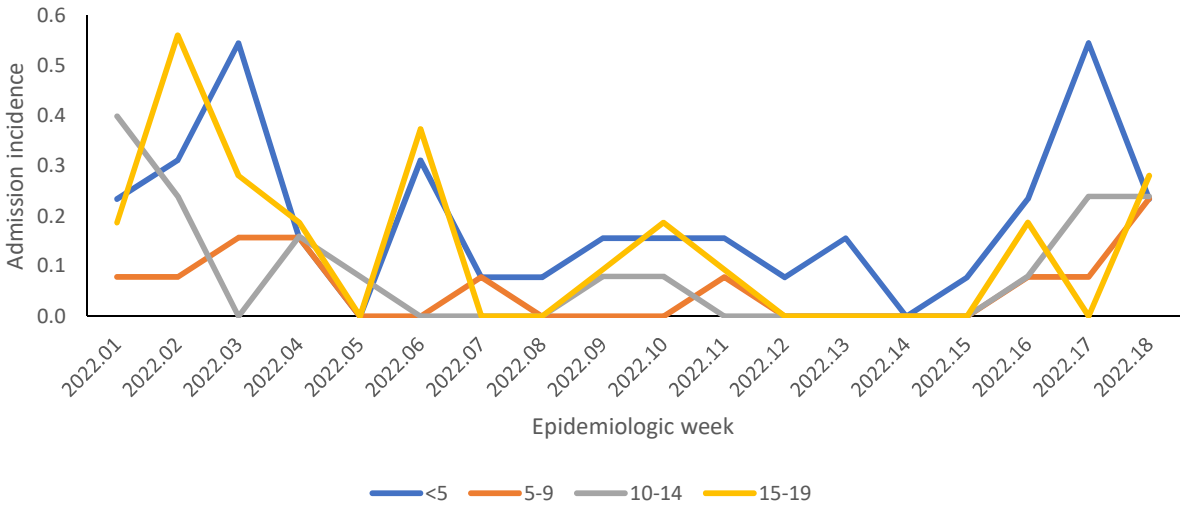

Figure 39b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Northern Cape, week 1-18 2022

Western Cape

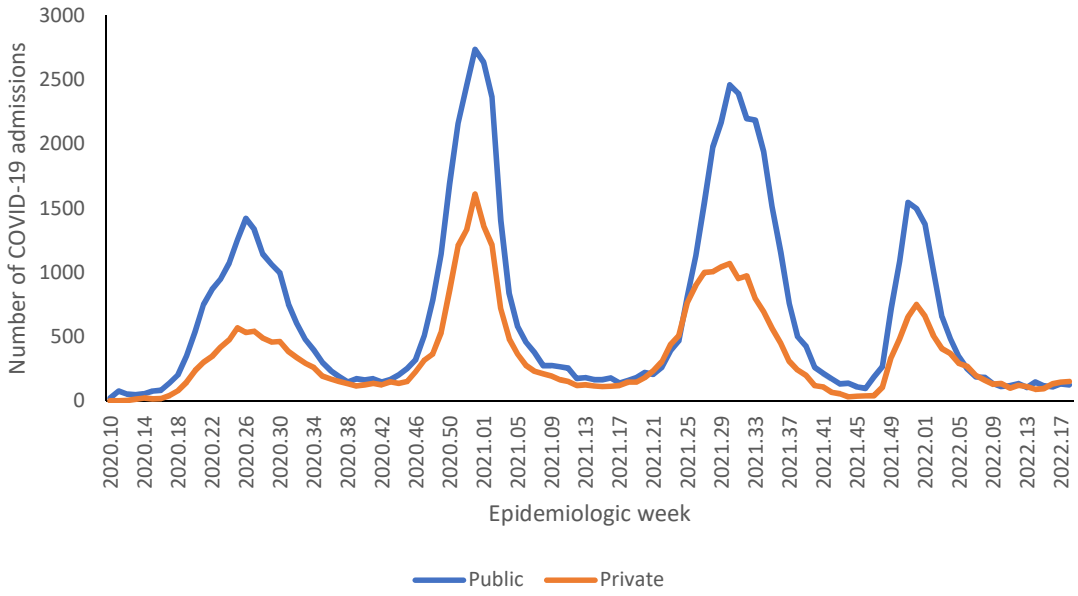

Figure 40: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-7 May 2022, N=116,997

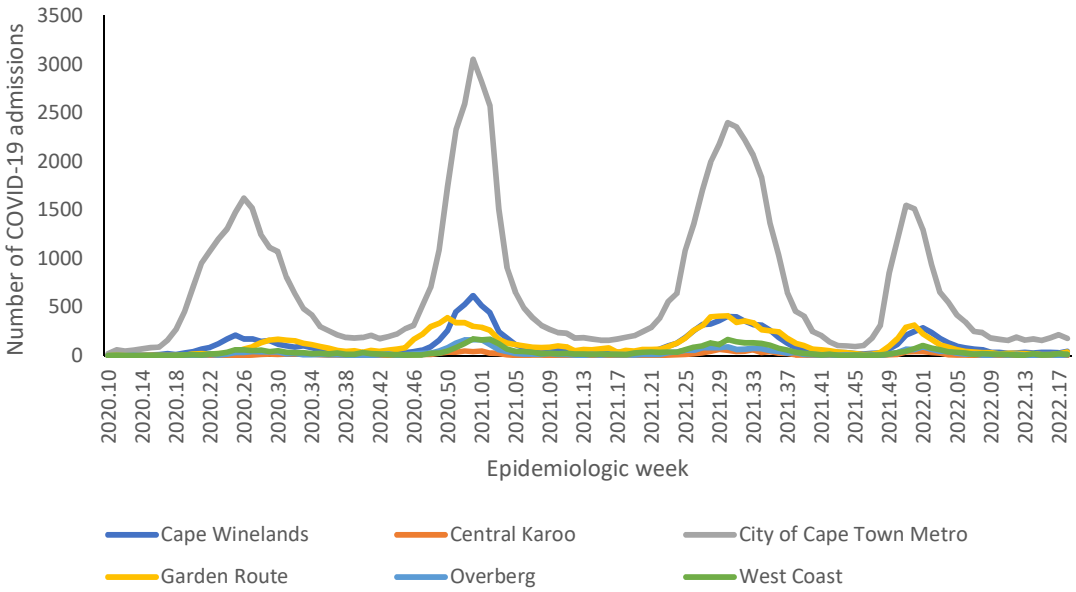

Figure 41: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-7 May 2022, N=116,997

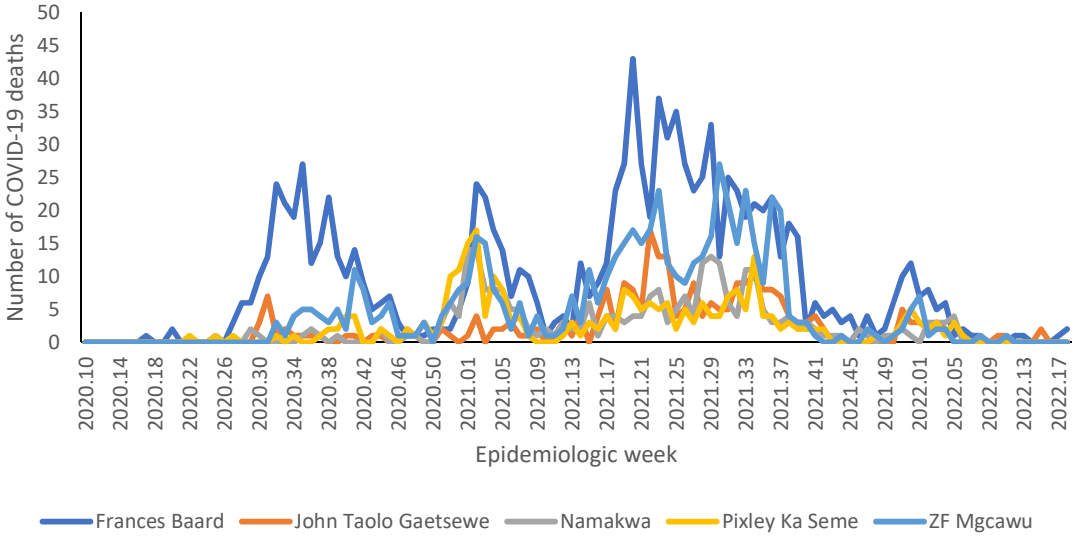

Figure 42: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-7 May 2022, N=18,617

Table 13: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 09 April-7 May 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	4.43	5.00	12.90	0.43	0.57	33.33
Central Karoo	0.07	0.07	0.00	0.00	0.00	0.00
City of Cape Town Metro	24.00	28.00	16.67	1.29	1.07	-16.67
Garden Route	1.43	3.79	165.00	0.07	0.00	-100.00
Overberg	1.43	0.86	-40.00	0.00	0.07	0.00
West Coast	1.29	2.36	83.33	0.14	0.07	-50.00

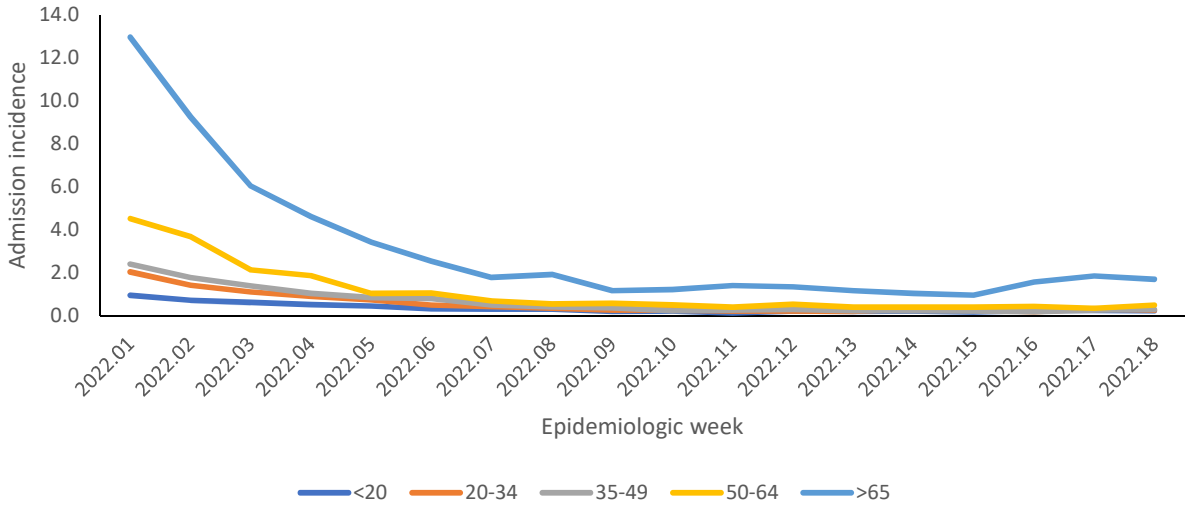

Figure 43a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Western Cape, week 1-18 2022

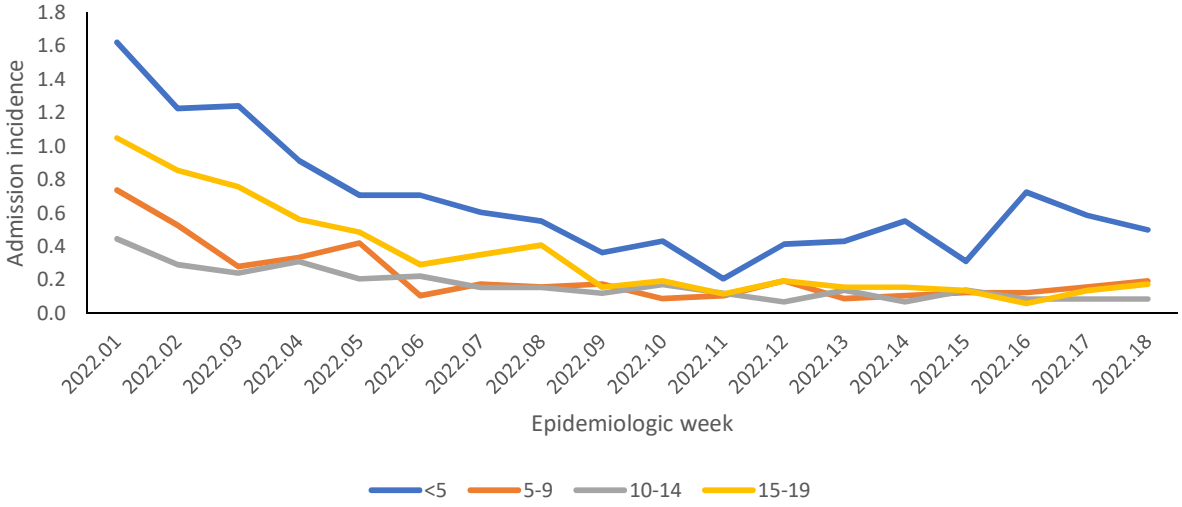

Figure 43b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Western Cape, week 1-18 2022

Limitation

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.

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)

Appendix

Table 14: Percentage incidence change in hospital admissions over 14 days, by district, South Africa, 23 April-7 May 2022.

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	2693	326.62	7	0.85	40.00
	Amathole	3273	418.24	2	0.26	-33.33
	Buffalo City Metro	10529	1330.27	19	2.40	5.56
	Chris Hani	5174	726.11	8	1.12	14.29
	Joe Gqabi	1179	343.81	0	0.00	100.00
	Nelson Mandela Bay Metro	16410	1360.25	36	2.98	12.50
	O R Tambo	4958	323.29	6	0.39	0.00
	Sarah Baartman	3332	690.47	15	3.11	66.67
Free State	Fezile Dabi	3706	724.46	28	5.47	-22.22
	Lejweleputswa	6457	988.55	42	6.43	82.61
	Mangaung Metro	14769	1685.23	66	7.53	26.92
	Thabo Mofutsanyana	5681	743.31	27	3.53	35.00
	Xhariep	712	560.44	0	0.00	100.00
Gauteng	City of Johannesburg Metro	54178	900.98	244	4.06	-22.04
	City of Tshwane Metro	42671	1116.94	339	8.87	0.89
	Ekurhuleni Metro	33142	819.05	160	3.95	-6.98
	Sedibeng	9828	1009.02	60	6.16	-7.69
	West Rand	13346	1395.42	58	6.06	16.00
KwaZulu-Natal	Amajuba	4670	823.63	10	1.76	11.11
	eThekwini Metro	39243	978.73	278	6.93	-23.20
	Harry Gwala	2724	538.20	13	2.57	550.00
	iLembe	3027	435.09	11	1.58	37.50
	King Cetshwayo	9466	992.11	34	3.56	78.95
	Ugu	5739	713.40	16	1.99	14.29
	uMgungundlovu	11479	1007.01	43	3.77	30.30
	uMkhanyakude	1492	216.86	0	0.00	100.00
	Umzinyathi	2337	414.30	17	3.01	183.33
	UThukela	3168	452.33	15	2.14	7.14
	Zululand	2465	278.79	12	1.36	140.00
Limpopo	Capricorn	8631	650.45	10	0.75	-16.67
	Mopani	3775	313.88	1	0.08	-66.67
	Sekhukhune	2118	174.09	4	0.33	-69.23
	Vhembe	3044	212.82	7	0.49	0.00

	Waterberg	3280	437.24	5	0.67	-54.55
Mpumalanga	Ehlanzeni	7913	432.79	8	0.44	14.29
	Gert Sibande	7595	599.03	8	0.63	-33.33
	Nkangala	6755	410.06	15	0.91	-55.88
North West	Bojanala Platinum	11258	577.88	13	0.67	0.00
	Dr Kenneth Kaunda	17097	2128.34	50	6.22	-18.03
	Dr Ruth Segomotsi Mompati	2324	498.16	7	1.50	-12.50
	Ngaka Modiri Molema	2766	305.68	0	0.00	-100.00
Northern Cape	Frances Baard	5416	1302.02	22	5.29	-18.52
	John Taolo Gaetsewe	1641	593.80	5	1.81	25.00
	Namakwa	1325	1132.57	2	1.71	-33.33
	Pixley Ka Seme	916	435.33	0	0.00	100.00
	ZF Mgcawu	2269	800.88	1	0.35	-50.00
Western Cape	Cape Winelands	13321	1393.68	64	6.70	36.17
	Central Karoo	1373	1811.54	1	1.32	0.00
	City of Cape Town Metro	81743	1747.06	224	4.79	-23.02
	Garden Route	13032	2074.35	46	7.32	100.00
	Overberg	3224	1055.22	10	3.27	100.00
	West Coast	4417	940.80	23	4.90	-17.86

Table 15: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-7 May 2022.

	ADMISSIONS				DEATHS			
Age Group (Years)	**Female**	**Male**	**Unknown**	**Total**	**Female**	**Male**	**Unknown**	**Total**
0-4	6509	8222	39	14770	177	199	2	378
5-9	1869	2458	8	4335	30	32	0	62
10-14	2562	2648	11	5221	66	65	0	131
15-19	7057	3953	6	11016	152	133	0	285
20-24	10903	5453	10	16366	345	266	1	612
25-29	17261	7730	16	25007	744	511	1	1256
30-34	22101	12291	14	34406	1273	1088	1	2362
35-39	22782	16140	22	38944	1817	1715	4	3536
40-44	20170	17846	16	38032	2236	2310	1	4547
45-49	22254	21838	12	44104	3209	3397	1	6607
50-54	25762	24150	10	49922	4360	4516	2	8878
55-59	28643	26126	15	54784	6172	6197	5	12374
60-64	25405	23284	20	48709	6632	6837	6	13475
65-69	21979	19581	17	41577	6865	6419	6	13290
70-74	18774	16506	20	35300	6111	5935	4	12050
75-79	14151	11642	9	25802	4841	4517	3	9361
80-84	10800	7602	8	18410	3964	3088	3	7055
85-89	5883	3653	2	9538	2222	1627	0	3849
90-94	2584	1275	1	3860	1086	620	0	1706
>=95	792	375	3	1170	358	158	0	516
Unknown	887	691	48	1626	48	45	0	93
Total	**289128**	**233464**	**307**	**522899**	**52708**	**49675**	**40**	**102423**


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