

COVID-19 Hospital Surveillance

Update: Week 22, 2022

Overview of report

This report summarises data of COVID-19 cases admitted to hospital surveillance sites in all provinces. The report is based on data collected from 5 March 2020 to 4 June 2022.

Highlights

- There was a 41% decrease in the number of new admissions in week 22 2022 (1,388) compared to the number of admissions in week 21 2022 (2,337). Delays in reporting of admissions and deaths may affect the numbers reported in the most recent week.
- Gauteng had the highest number of admissions in the past week (419/1,388, 30.2%), followed by Western Cape (364/1,388, 26.2%) and KwaZulu-Natal (181/1,388, 13.0%). The lowest number of admissions was in Northern Cape (18/1,388, 1.3%).
- The highest weekly incidence risk of COVID-19 admissions reported in week 22 of 2022 was in the ≥65-year age group (11.7 admissions per 100 000 persons), and the lowest weekly incidence risk was in the 10-14-year age group (0.3 admissions per 100 000 persons).

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 4 June 2022, a total of 670 facilities submitted data on hospitalised COVID-19 cases, 408 from public sector and 262 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 2020-4 June 2022

Facilities reporting	Public	Private
Eastern Cape	86	18
Free State	35	20
Gauteng	40	99
KwaZulu-Natal	70	47
Limpopo	41	7
Mpumalanga	31	9
North West	17	13
Northern Cape	29	6
Western Cape	59	43
South Africa	408	262

Results

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

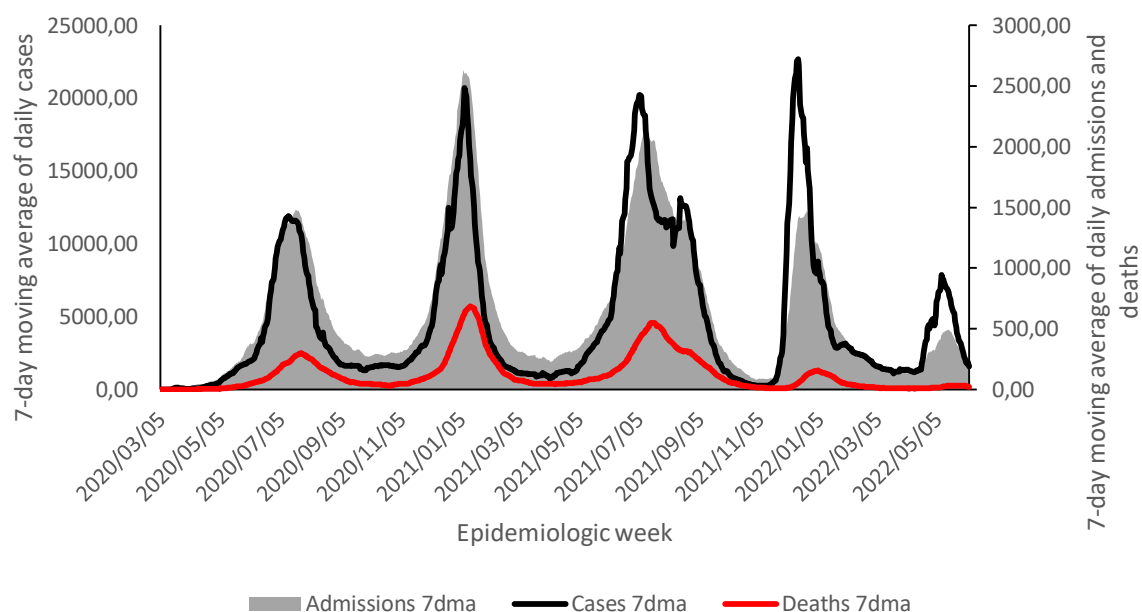


Figure 1: 7-day moving average of SARS-CoV-2 cases, COVID-19 admissions and in-hospital deaths, South Africa, 5 March 2020-4 June 2022

Epidemiological and demographic trends in admissions

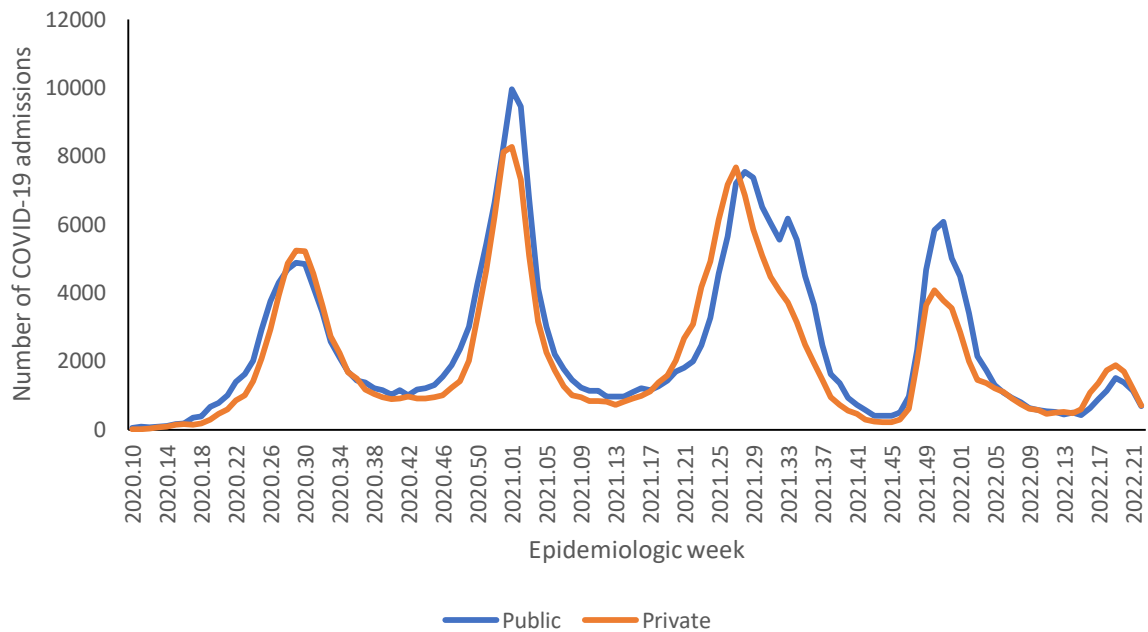


Figure 2: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-4 June 2022, N=534,683

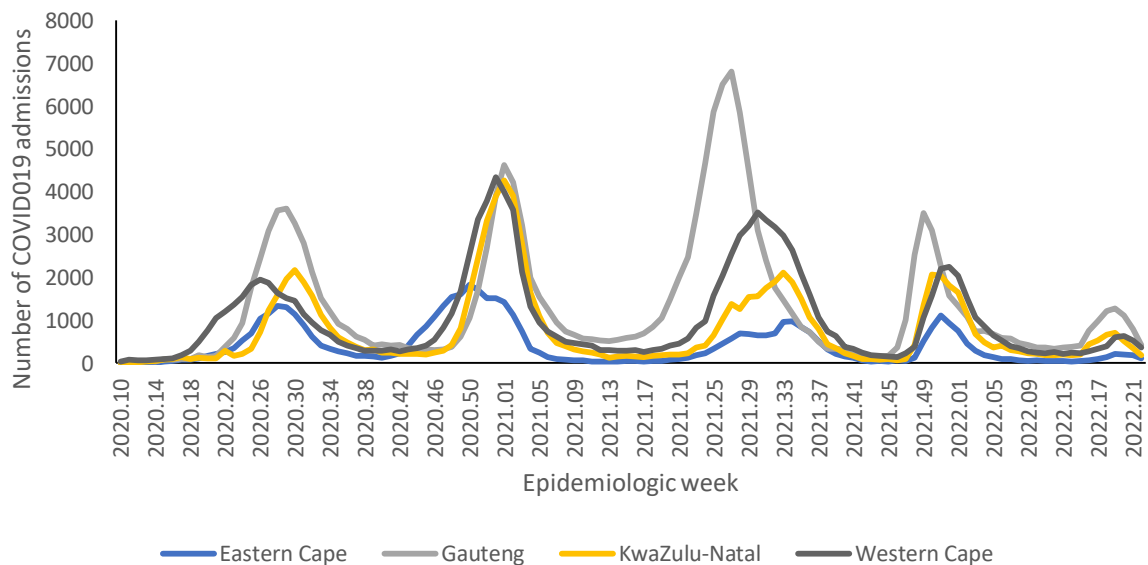


Figure 3a: Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-4 June 2022, N=534,683

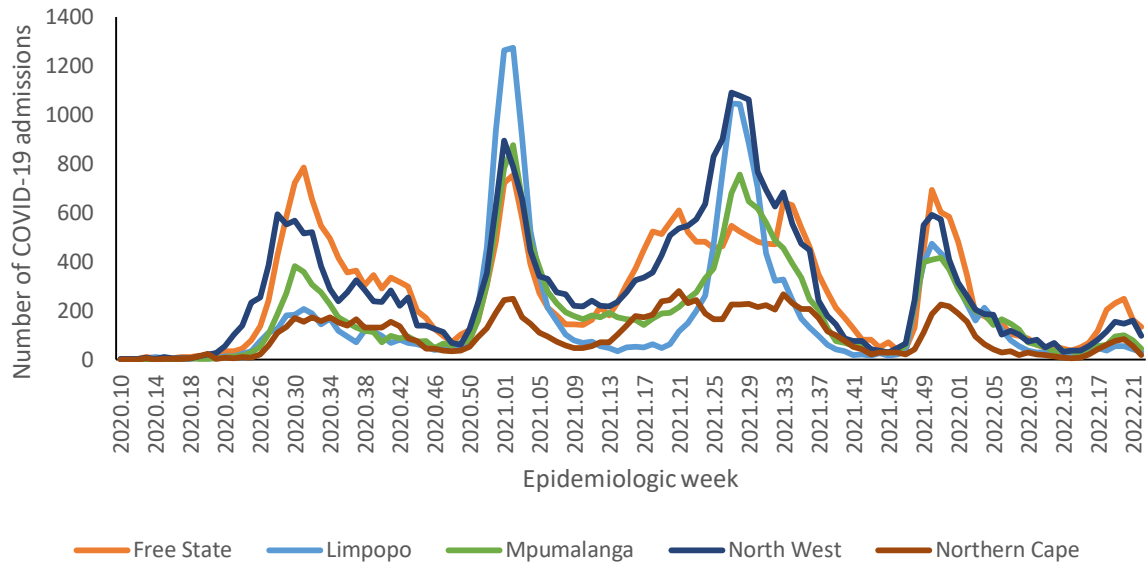


Figure 3b: Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-4 June 2022, N=534,683

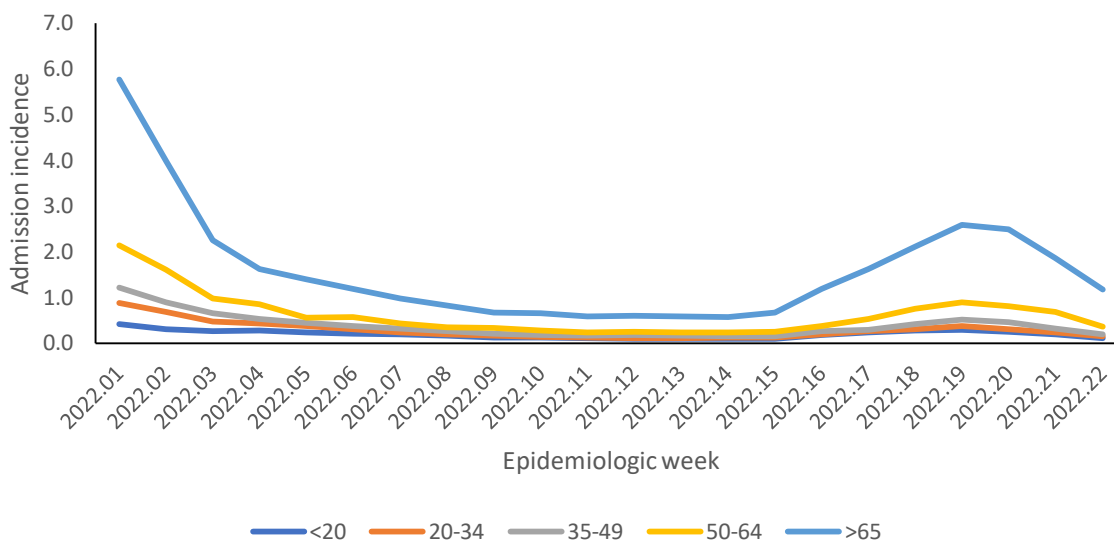


Figure 4a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week, South Africa, week 1-22 2022

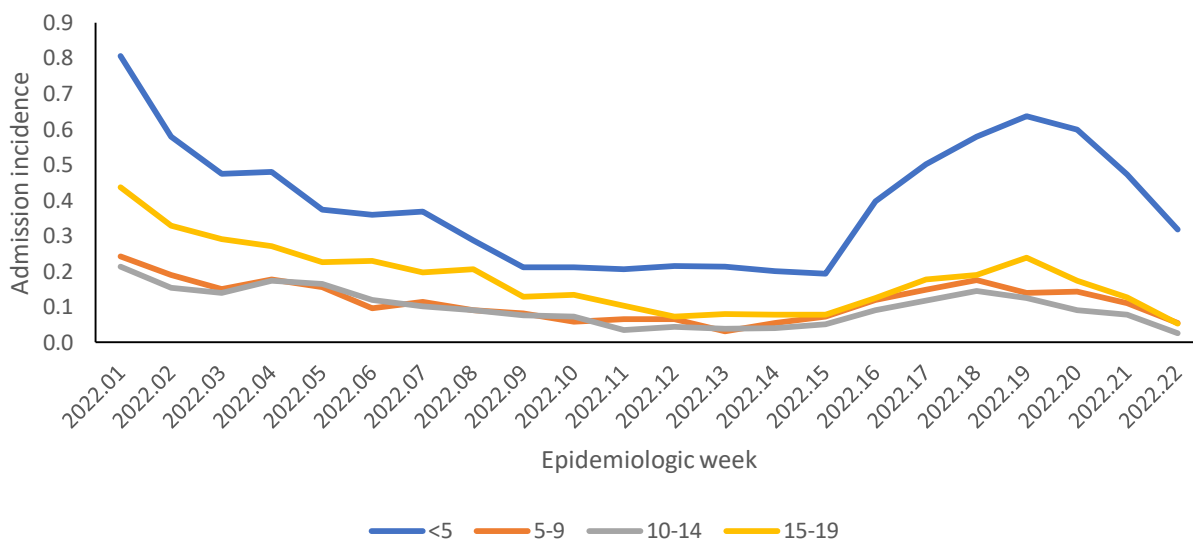


Figure 4b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years and epidemiologic week of diagnosis, South Africa, week 1-22 2022

Epidemiological and demographic trends in in-hospital mortality

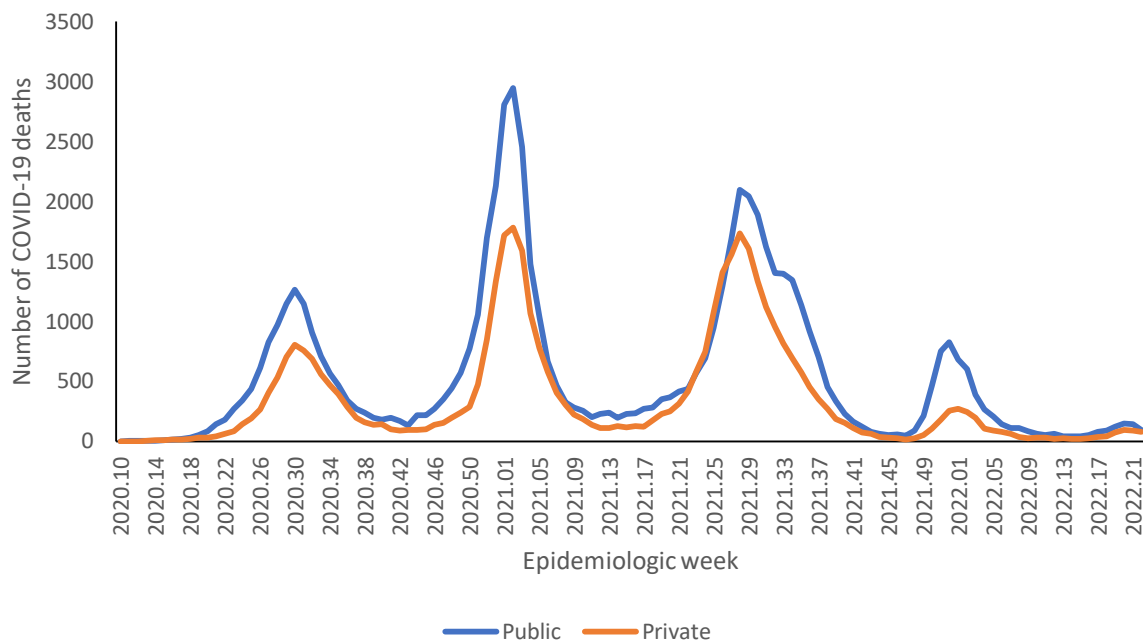


Figure 5: Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-4 June 2022, N=103,304

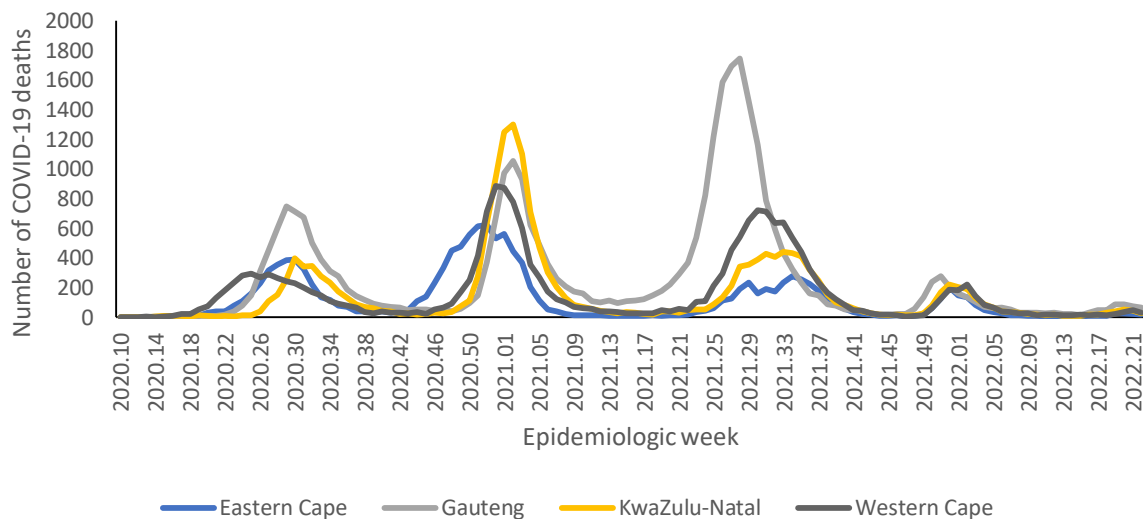


Figure 6a: Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-4 June 2022, N=103,304

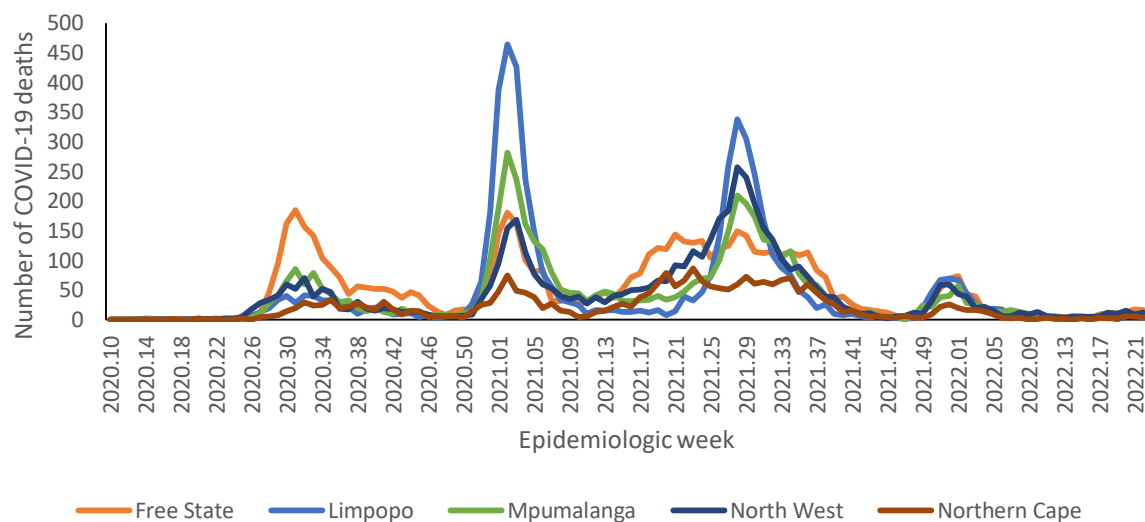


Figure 6b: Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-4 June 2022, N=103,304

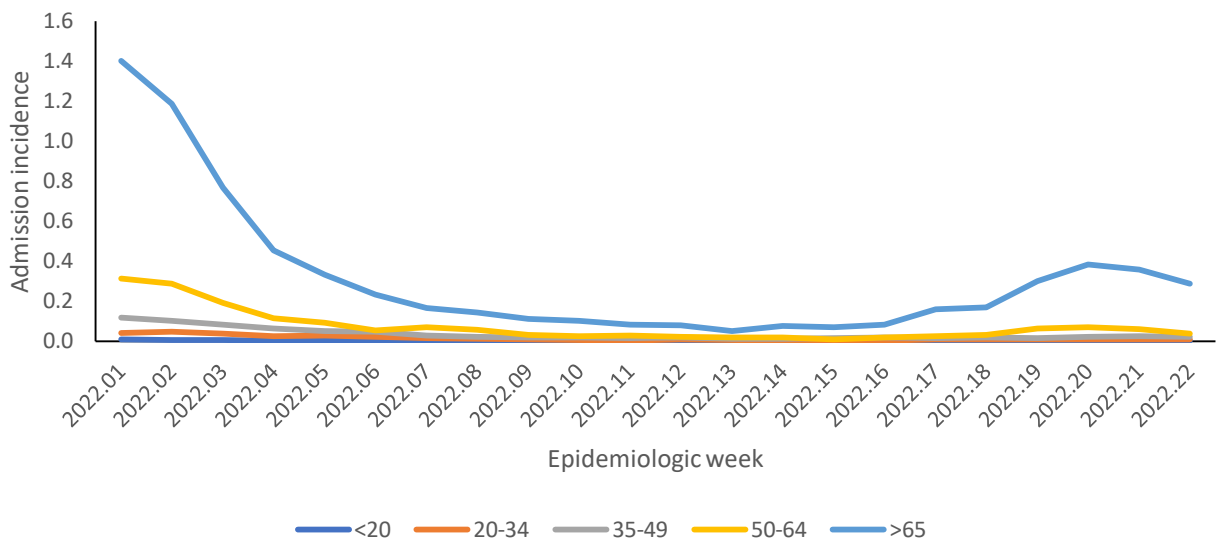


Figure 7a: Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, by age group (years) and epidemiologic week of death, South Africa, week 1-22 2022

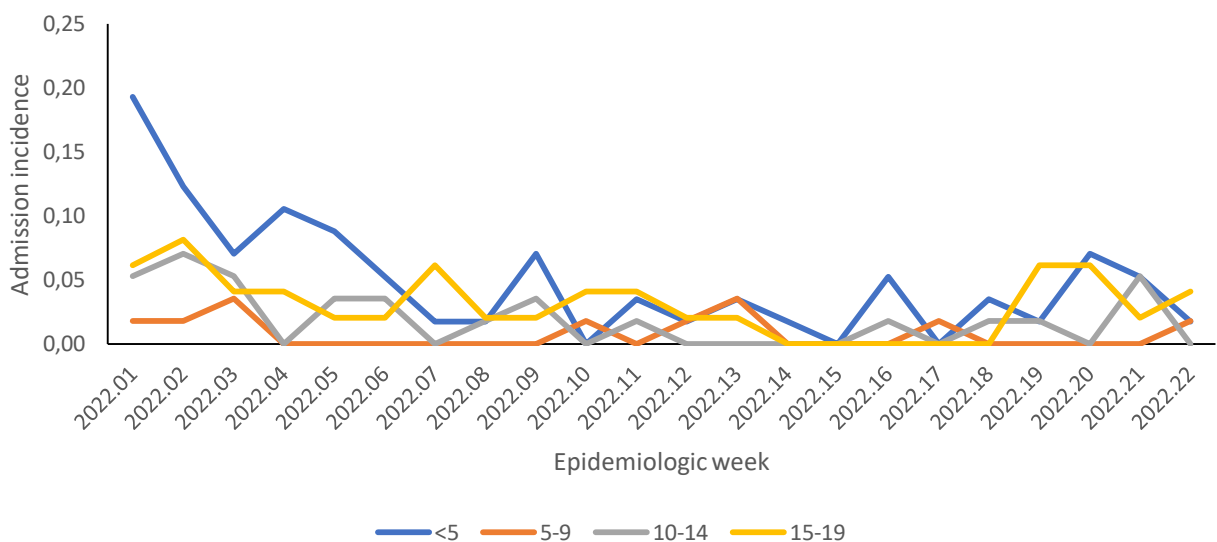


Figure 7b: Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of death, South Africa, week 1-22 2022

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 2020-4 June 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	48265	722.9	13224	198.1
Free State	2932441	32174	1097.2	6090	207.7
Gauteng	15810388	157 443	995.8	30266	191.4
KwaZulu-Natal	11513575	87891	763.4	17409	151.2
Limpopo	5926724	21031	354.9	5331	89.9
Mpumalanga	4743584	22622	476.9	4874	102.7
North West	4122854	34 039	825.6	4936	119.7
Northern Cape	1303047	11 837	908.4	2449	187.9
Western Cape	7113776	119 381	1678.2	18725	263.2
South Africa	60142978	534 683	889.0	103 304	171.8

*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, 7 May-4 June 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	28.64	20.29	-29.18	3.50	2.71	-22.45
Free State	34.14	20.93	-38.70	1.64	2.36	43.48
Gauteng	169.21	86.43	-48.92	12.21	9.71	-20.47
KwaZulu-Natal	86.14	37.64	-56.30	6.14	4.57	-25.58
Limpopo	7.79	5.14	-33.94	0.36	0.86	140.00
Mpumalanga	13.64	8.57	-37.17	0.79	1.00	27.27
North West	21.36	18.36	-14.05	1.79	1.50	-16.00
Northern Cape	11.29	5.14	-54.43	0.50	0.57	14.29
Western Cape	88.43	63.43	-28.27	3.93	5.29	34.55

* 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, 21 May-4 June 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	25.86	14.71	-43.09	3.00	2.43	-19.05
Free State	23.00	18.86	-18.01	2.43	2.29	-5.88
Gauteng	113.29	59.57	-47.41	10.29	9.14	-11.11
KwaZulu-Natal	49.43	25.86	-47.69	5.86	3.29	-43.90
Limpopo	5.86	4.43	-24.39	1.14	0.57	-50.00
Mpumalanga	11.00	6.14	-44.16	0.86	1.14	33.33
North West	22.86	13.86	-39.38	1.29	1.71	33.33
Northern Cape	7.71	2.57	-66.67	0.71	0.43	-40.00
Western Cape	74.86	52.00	-30.53	6.57	4.00	-39.13

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

Eastern Cape

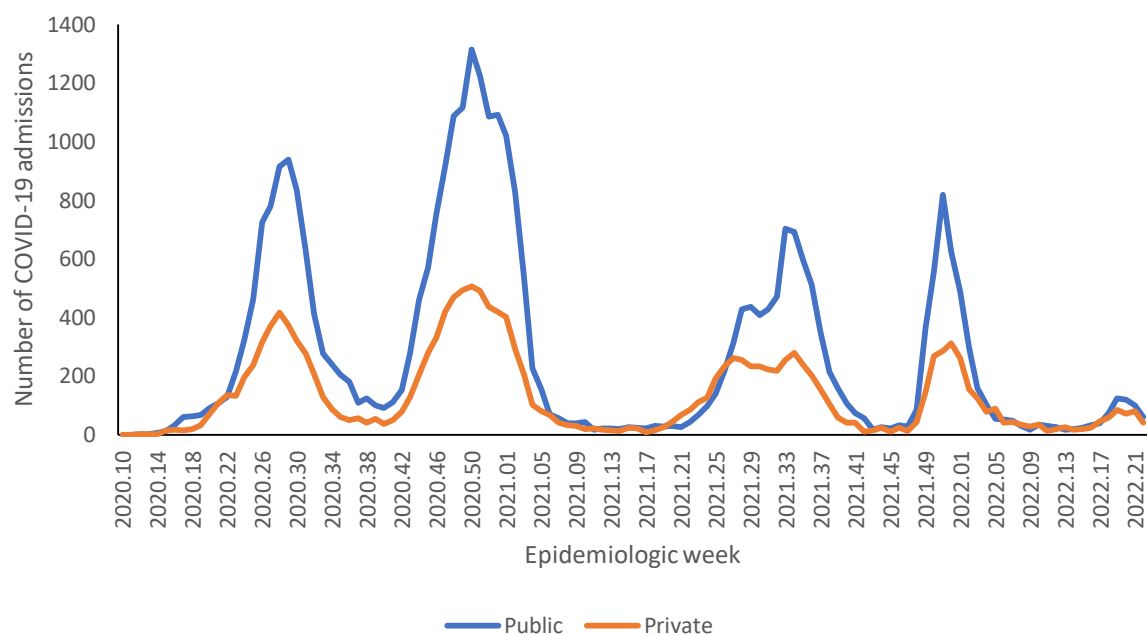


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-4 June 2022, N=48,265

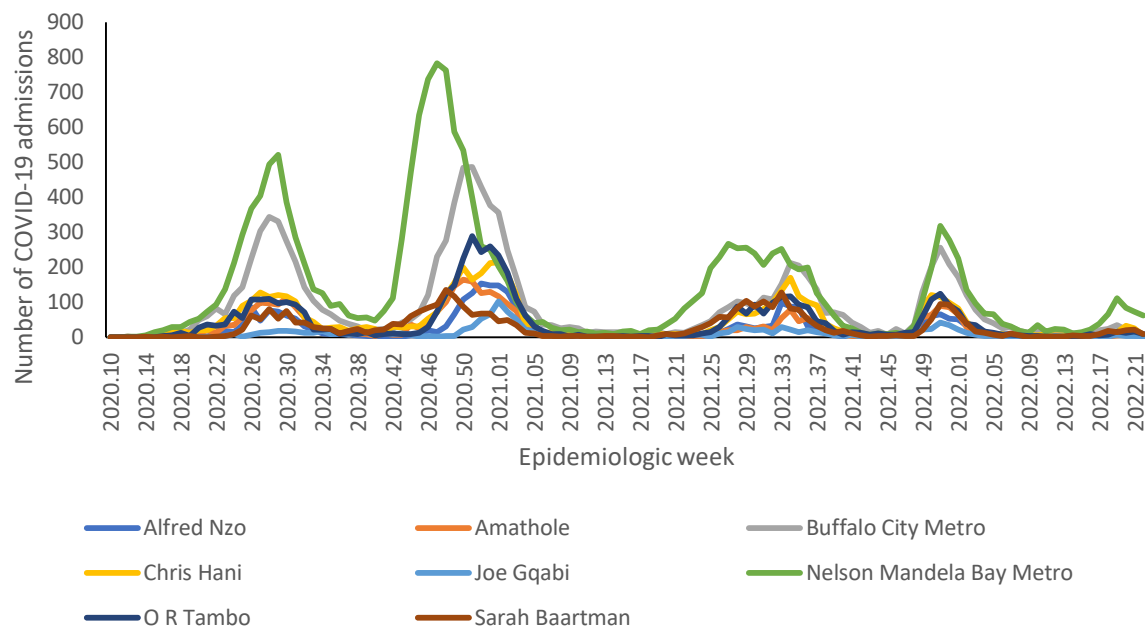


Figure 9: Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-4 June 2022, N=48,265

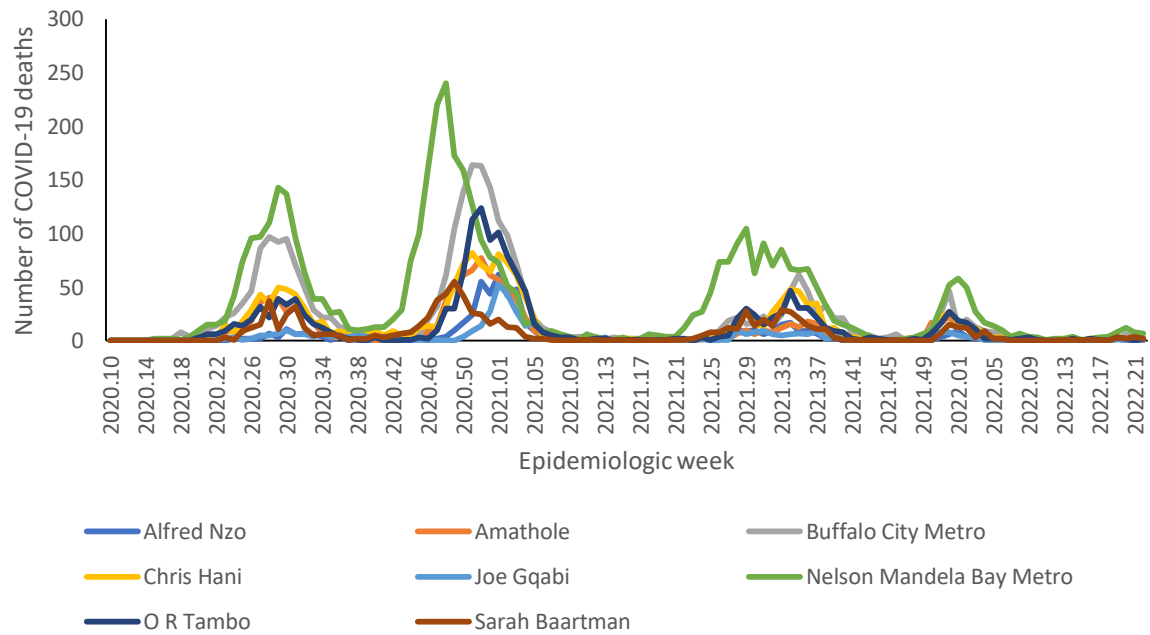


Figure 10: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-4 June 2022, N=13,224

Table 5: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 7 May-4 June 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	1.43	1.64	15.00	0.14	0.21	50.00
Amathole	0.79	0.71	-9.09	0.14	0.14	0.00
Buffalo City Metro	4.00	2.00	-50.00	0.50	0.29	-42.86
Chris Hani	3.43	2.21	-35.42	0.43	0.36	-16.67
Joe Gqabi	0.71	0.29	-60.00	0.14	0.07	-50.00
Nelson Mandela Bay	13.86	9.57	-30.93	1.43	1.07	-25.00
O R Tambo	2.00	1.79	-10.71	0.36	0.14	-60.00
Sarah Baartman	2.43	2.07	-14.71	0.36	0.43	20.00

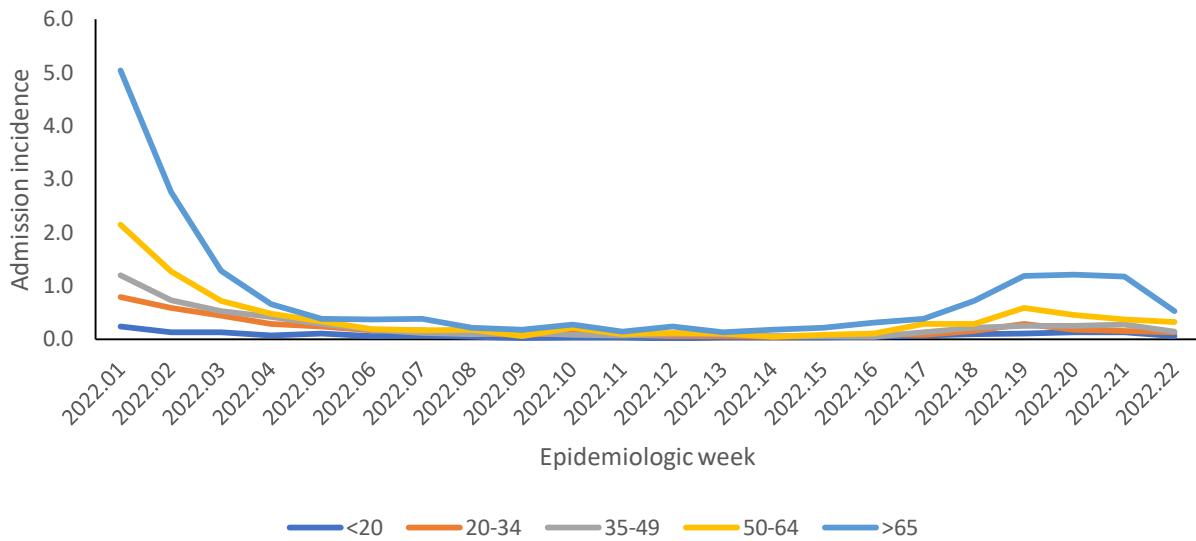


Figure 11a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Eastern Cape, week 1-22 2022

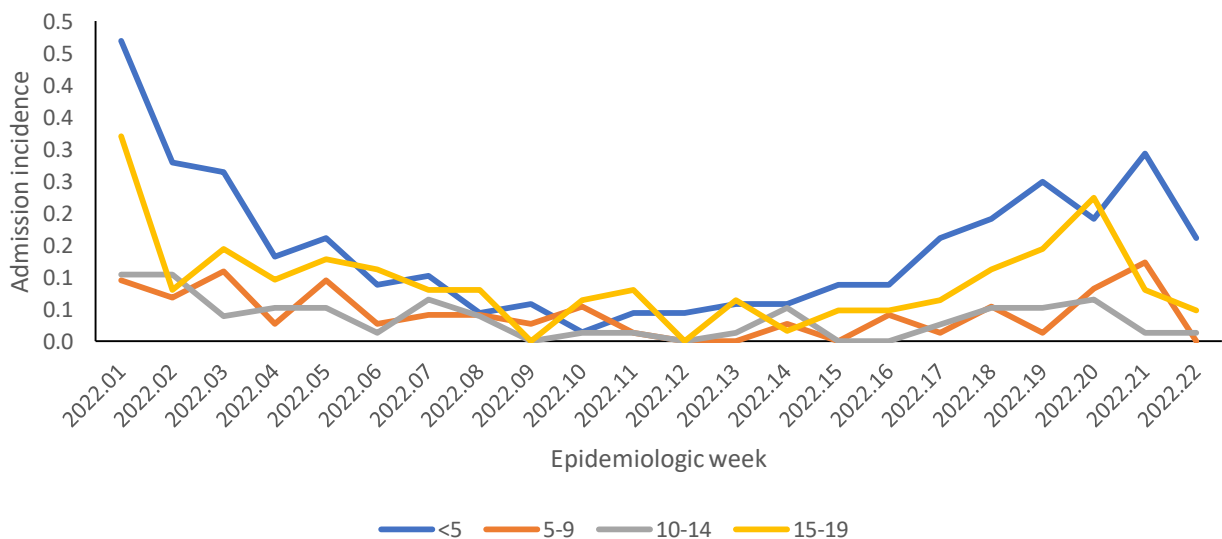


Figure 11b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Eastern Cape, week 1-22 2022

Free State

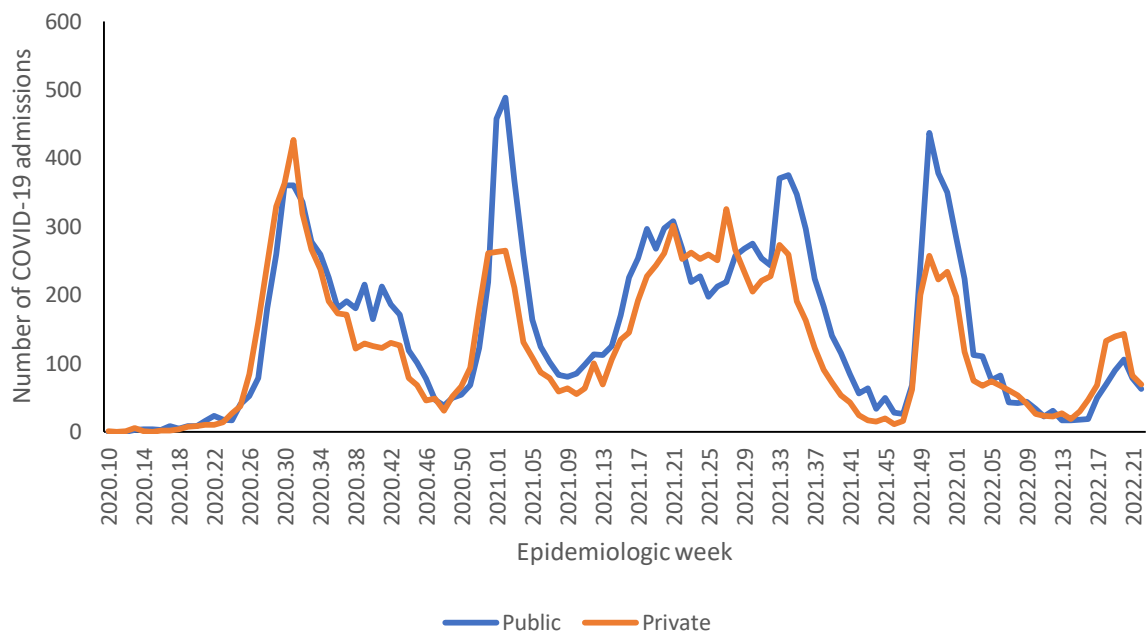


Figure 12: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-4 June 2022, N=32,174

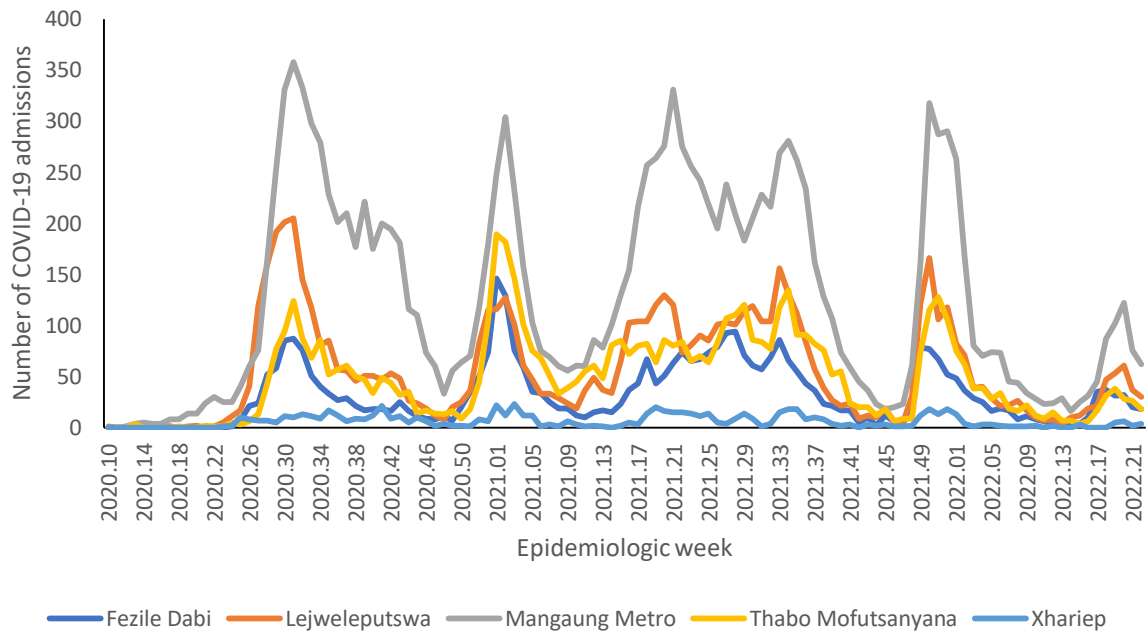


Figure 13: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-4 June 2022, N=32,174

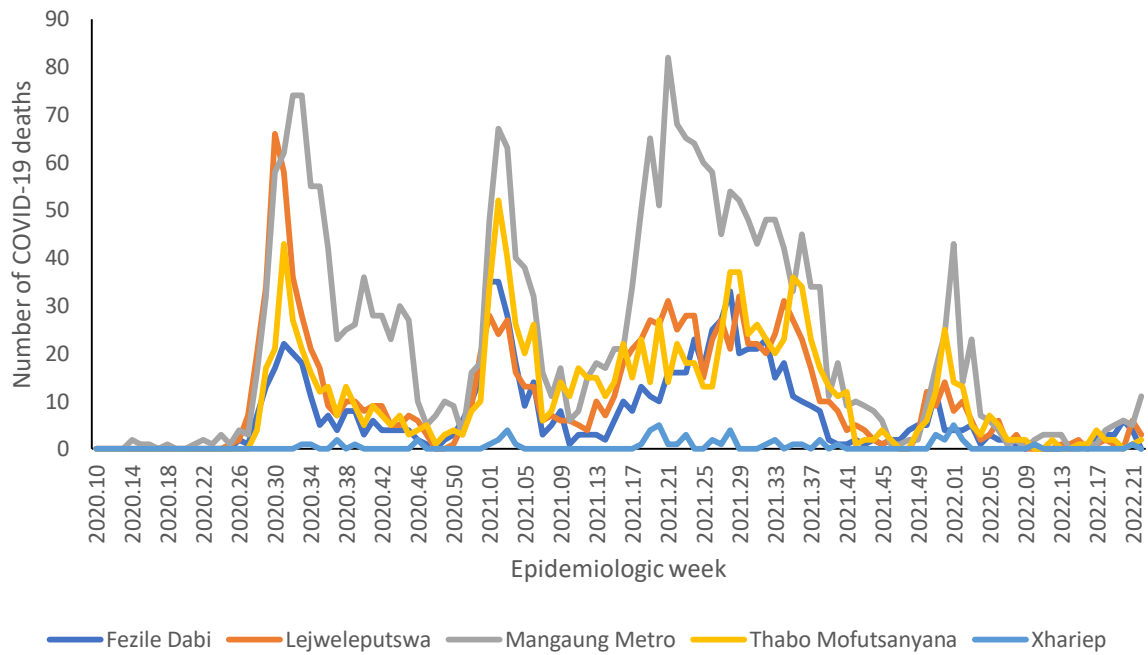


Figure 14: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-4 June 2022, N=6,090

Table 6: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 7 May-4 June 2022

District	Previous 14 days admissions average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Fezile Dabi	4.50	2.71	-39.68	0.64	0.29	-55.56
Lejweleputswa	8.14	4.79	-41.23	0.07	0.64	800.00
Mangaung Metro	16.00	9.86	-38.39	0.79	1.14	45.45
Thabo Mofutsanyana	4.71	3.14	-33.33	0.14	0.21	50.00
Xhariep	0.79	0.43	-45.45	0.00	0.07	0.00

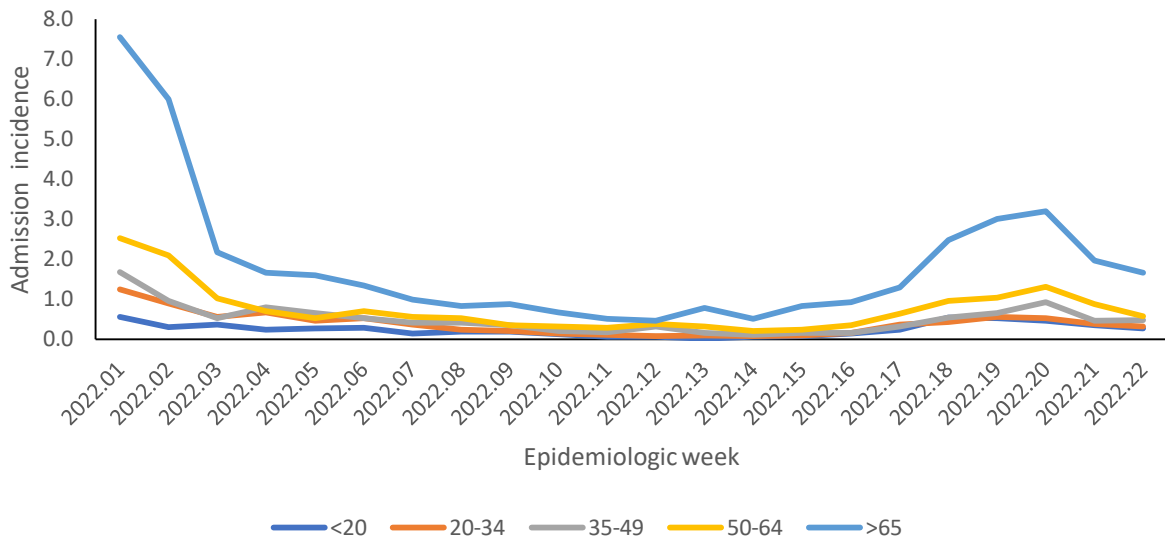


Figure 15a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Free State, week 1-22 2022

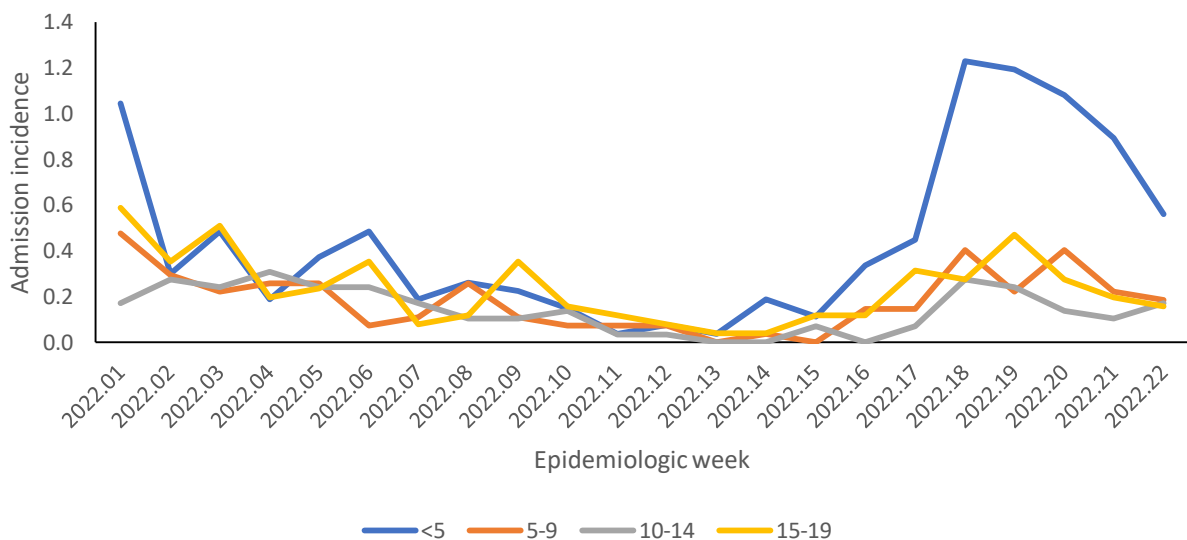


Figure 15b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Free State, week 1-22 2022

Gauteng

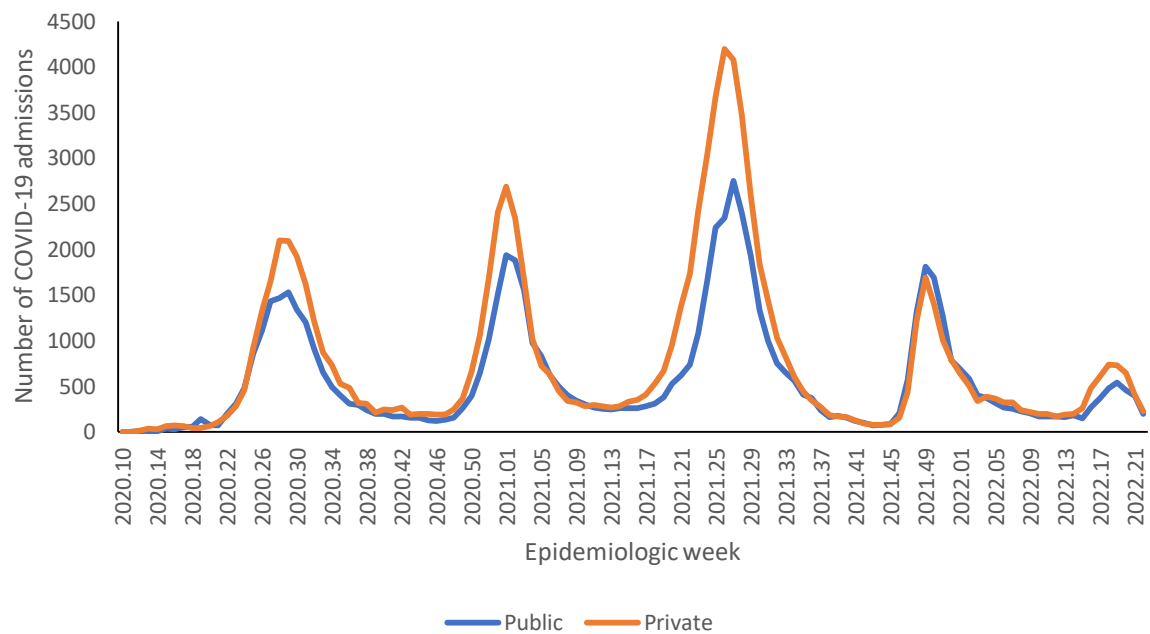


Figure 16: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-4 June 2022, N=157,443

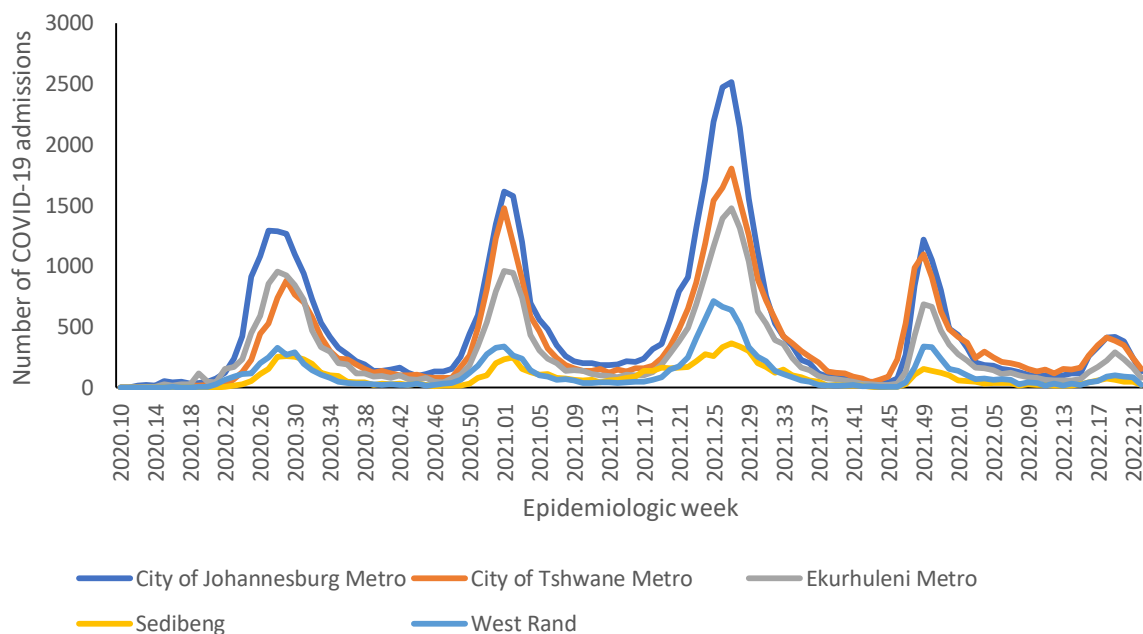


Figure 17: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-4 June 2022, N=157,443

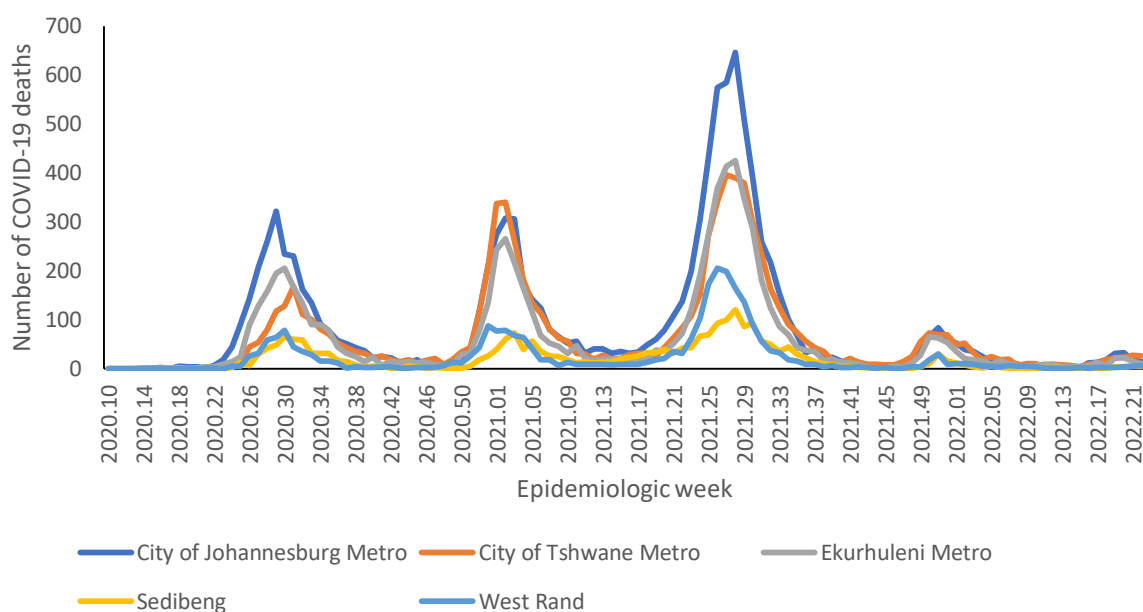


Figure 18: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-4 June 2022, N=30,266

Table 7: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 7 May-4 June 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	57.36	26.93	-53.05	4.64	2.36	-49.23
City of Tshwane Metro	52.14	28.57	-45.21	3.29	3.79	15.22
Ekurhuleni Metro	37.57	17.86	-52.47	3.21	1.93	-40.00
Sedibeng	8.21	5.07	-38.26	0.57	0.71	25.00
West Rand	13.93	8.00	-42.56	0.50	0.93	85.71

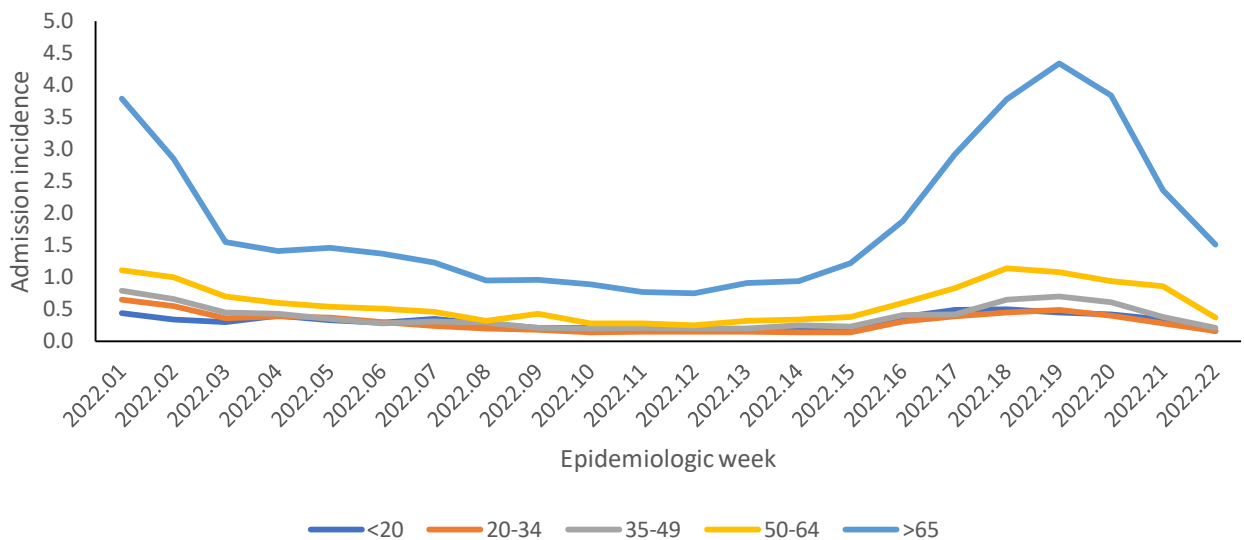


Figure 19a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Gauteng, week 1-22 2022

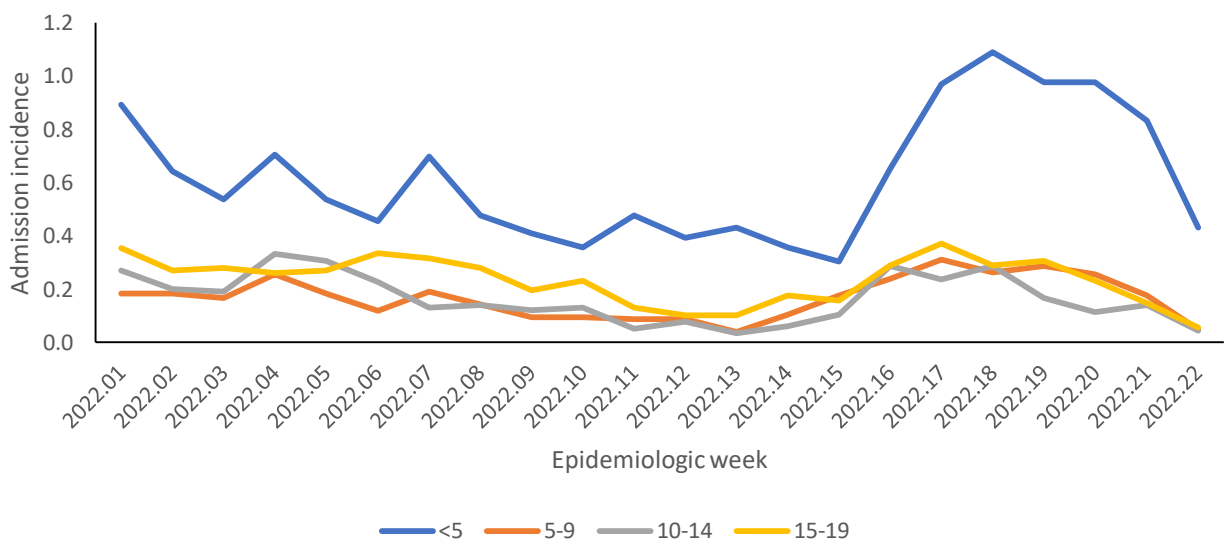


Figure 19b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Gauteng, week 1-22 2022

KwaZulu-Natal

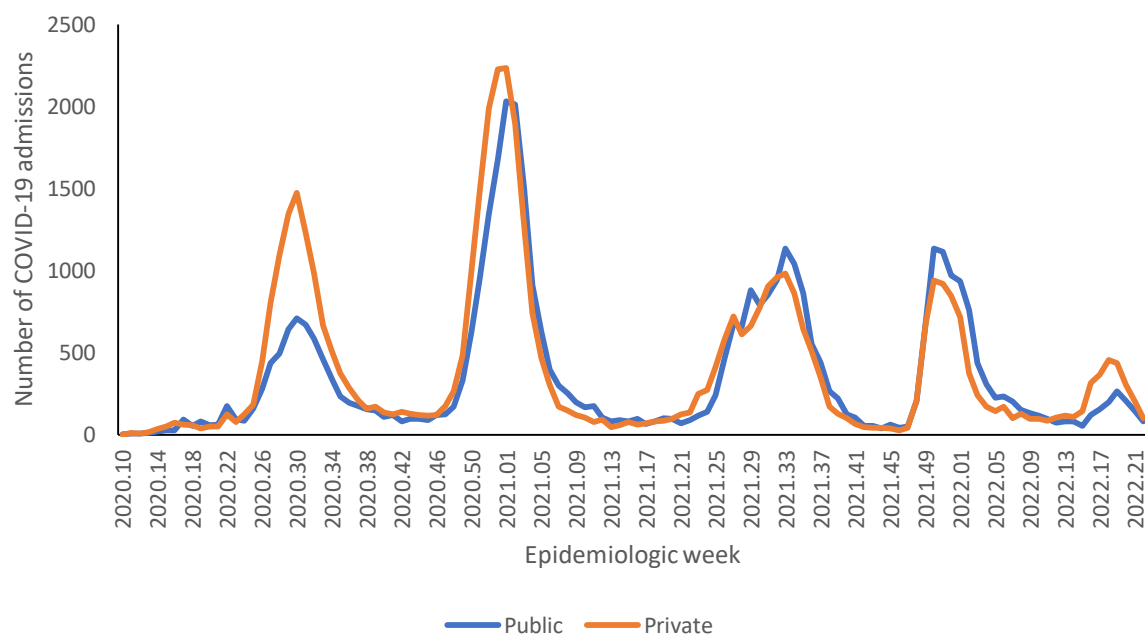


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-4 June 2022, N=87,891

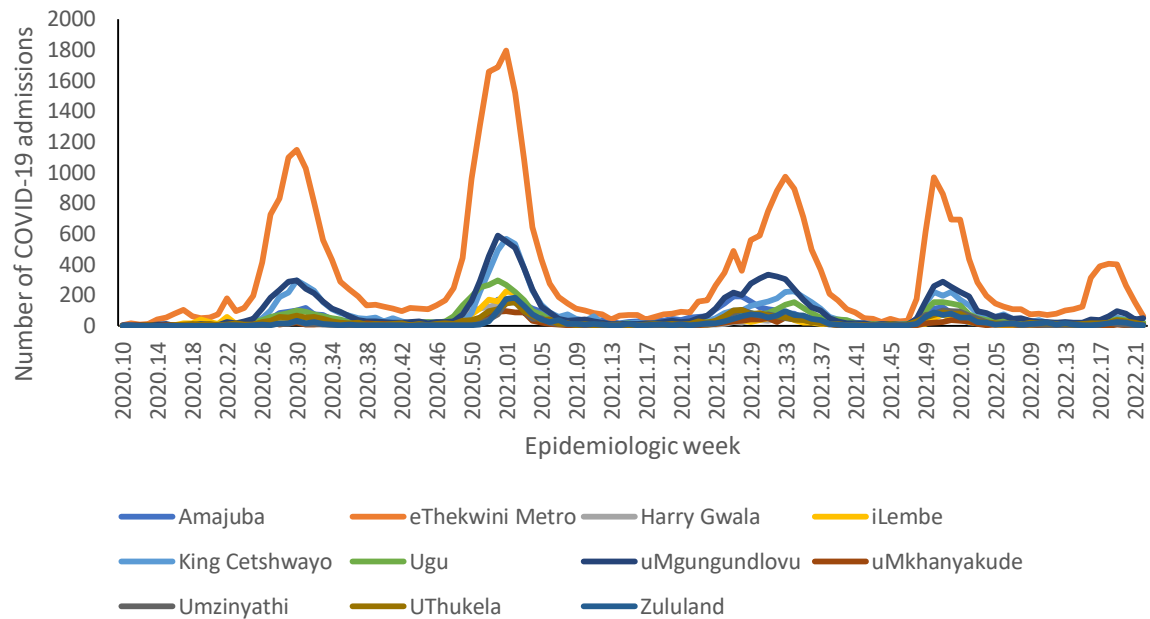


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-4 June 2022, N=87,891

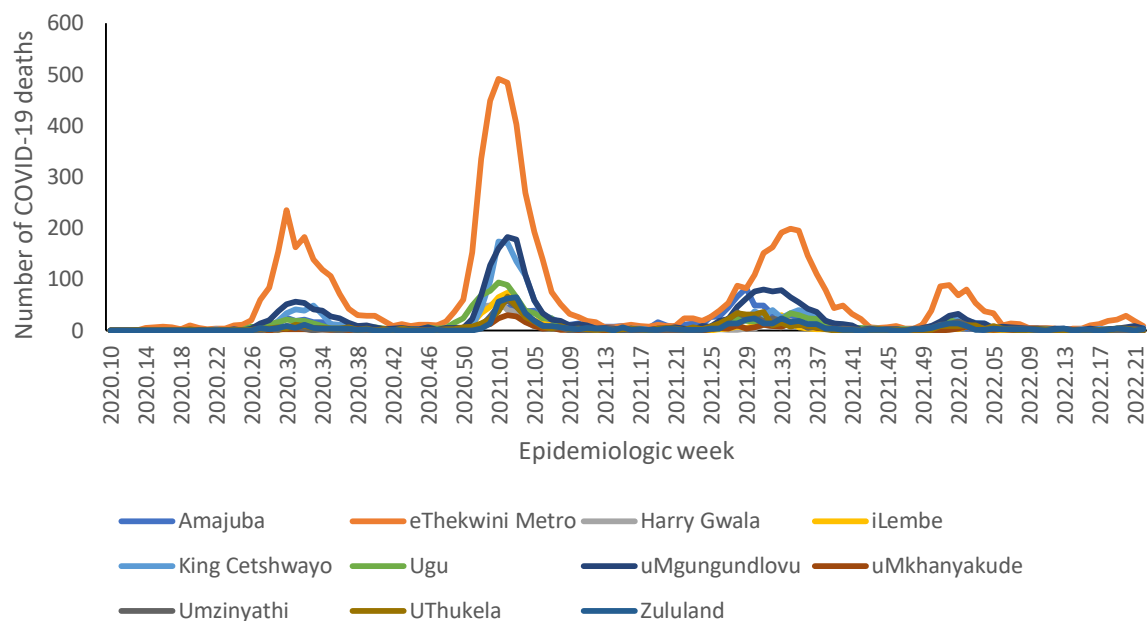


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-4 June 2022, N=17,409

Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 7 May-4 June 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	1.36	1.21	-10.53	0.07	0.14	100.00
eThekweni Metro	47.21	15.29	-67.62	3.50	2.00	-42.86
Harry Gwala	1.36	1.21	-10.53	0.00	0.21	0.00
iLembe	1.71	0.64	-62.50	0.07	0.00	-100.00
King Cetshwayo	6.71	4.79	-28.72	0.43	0.57	33.33
Ugu	5.50	4.14	-24.68	0.50	0.14	-71.43
uMgungundlovu	12.36	6.57	-46.82	0.64	0.86	33.33
uMkhanyakude	0.79	0.43	-45.45	0.14	0.14	0.00
Umzinyathi	1.36	0.71	-47.37	0.00	0.21	0.00
UThukela	4.57	1.79	-60.94	0.43	0.14	-66.67
Zululand	3.21	0.86	-73.33	0.36	0.14	-60.00

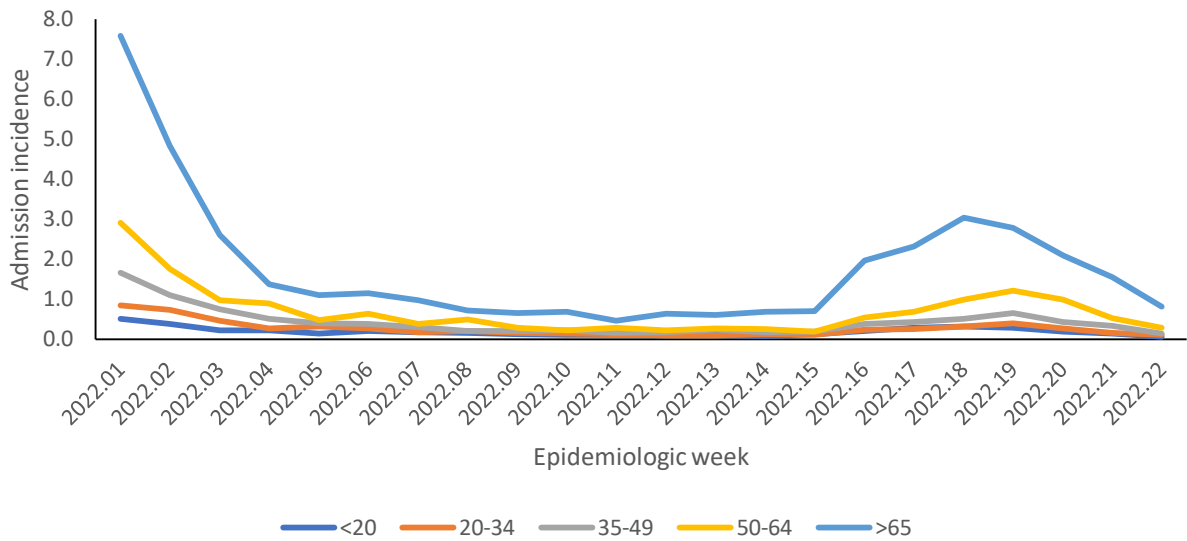


Figure 23a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-22 2022

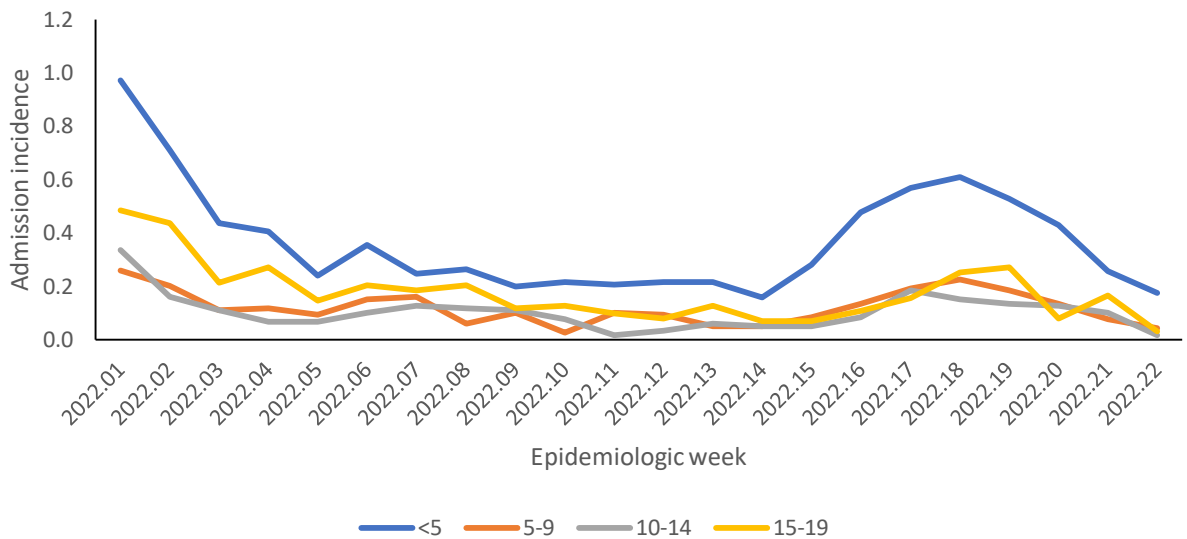


Figure 23b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-22 2022

Limpopo

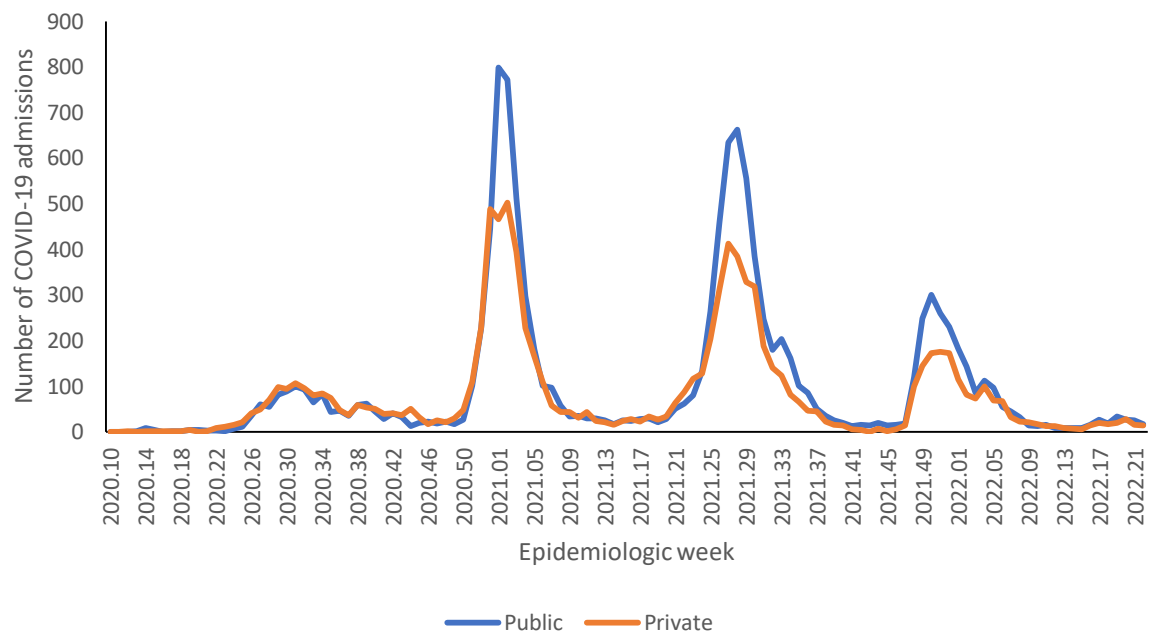


Figure 24: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-4 June 2022, N=21,031

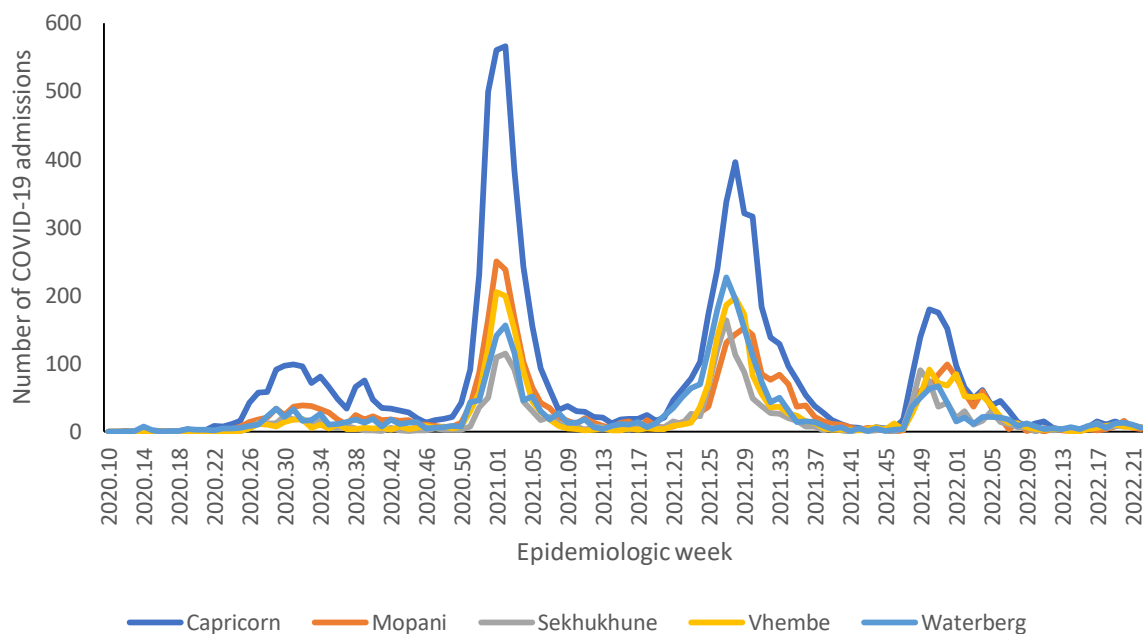


Figure 25: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-4 June 2022, N=21,031

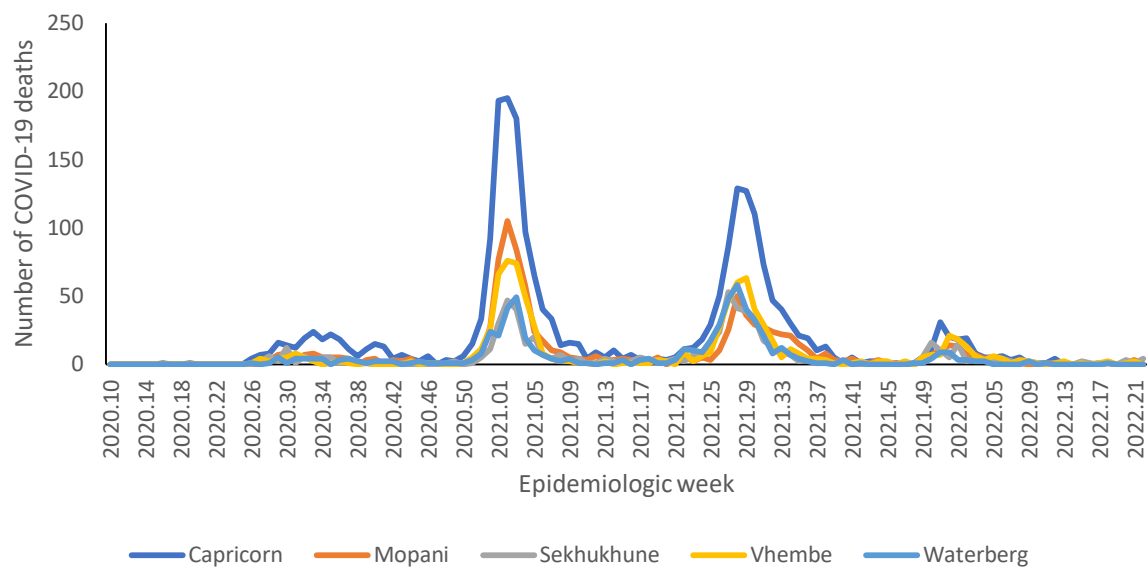


Figure 26: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-4 June 2022, N=5,331

Table 9: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 7 May-4 June 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	1.79	1.14	-36.00	0.00	0.14	0.00
Mopani	1.71	0.71	-58.33	0.07	0.21	200.00
Sekhukhune	1.21	1.14	-5.88	0.21	0.36	66.67
Vhembe	1.29	1.00	-22.22	0.07	0.14	100.00
Waterberg	1.79	1.14	-36.00	0.00	0.00	0.00

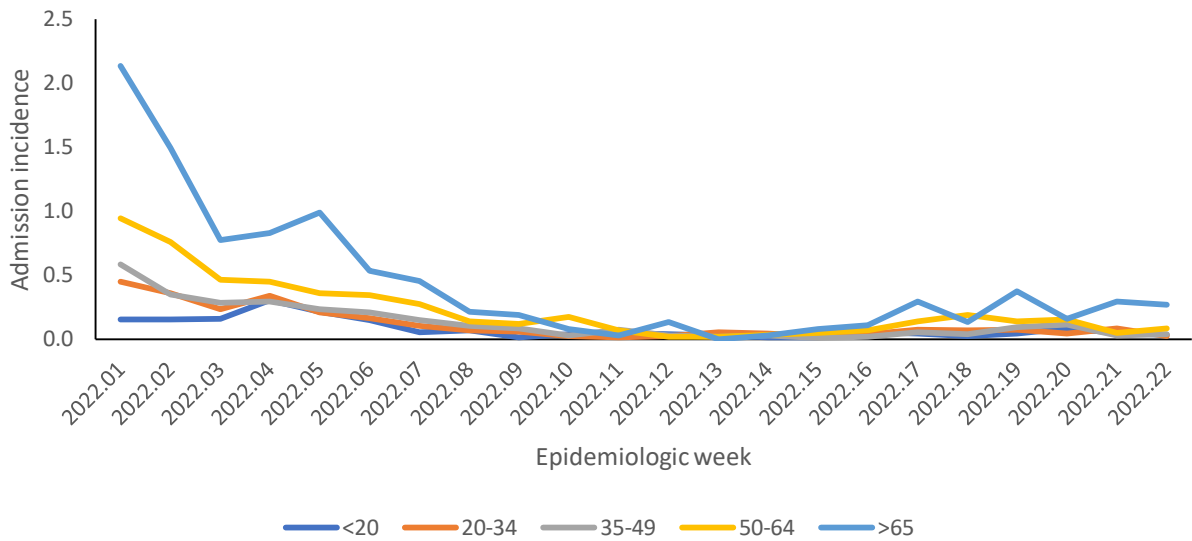


Figure 27a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Limpopo, week 1-22 2022

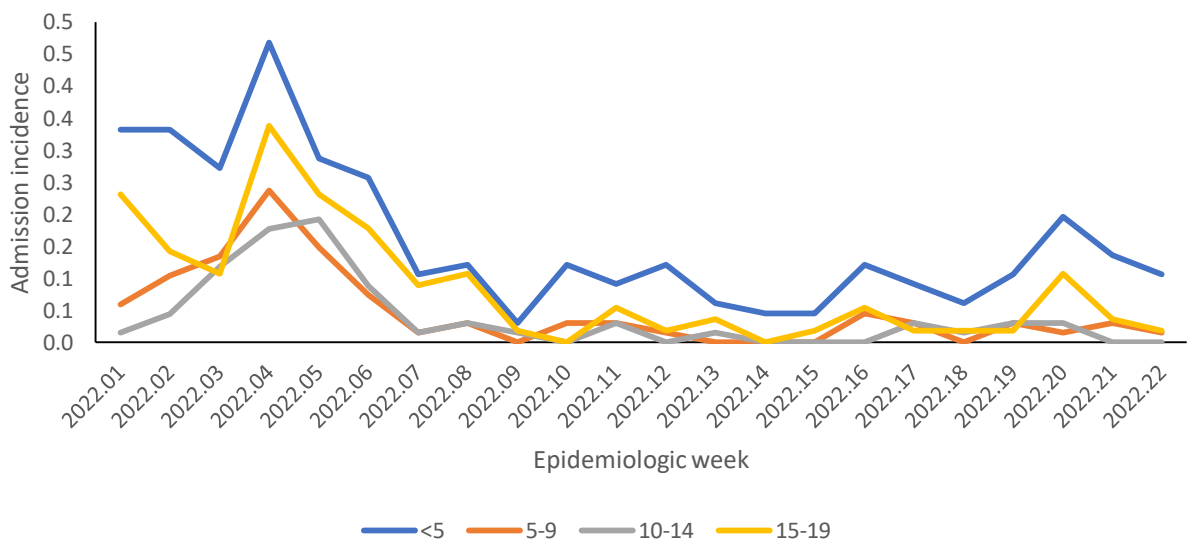


Figure 27b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Limpopo, week 1-22 2022

Mpumalanga

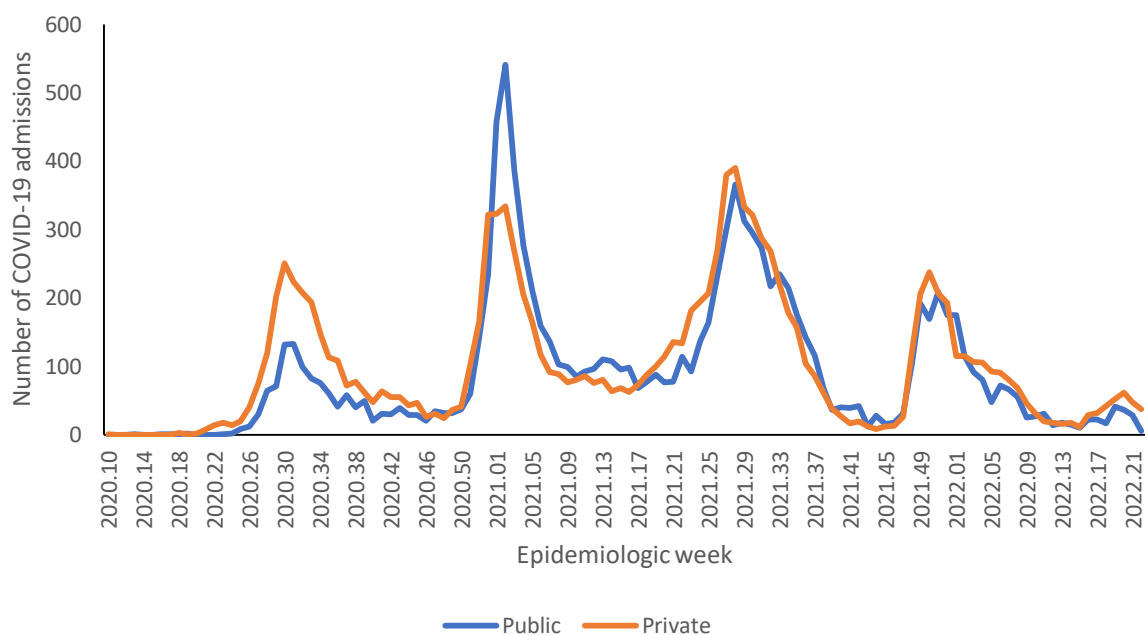


Figure 28: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-4 June 2022, N=22,622

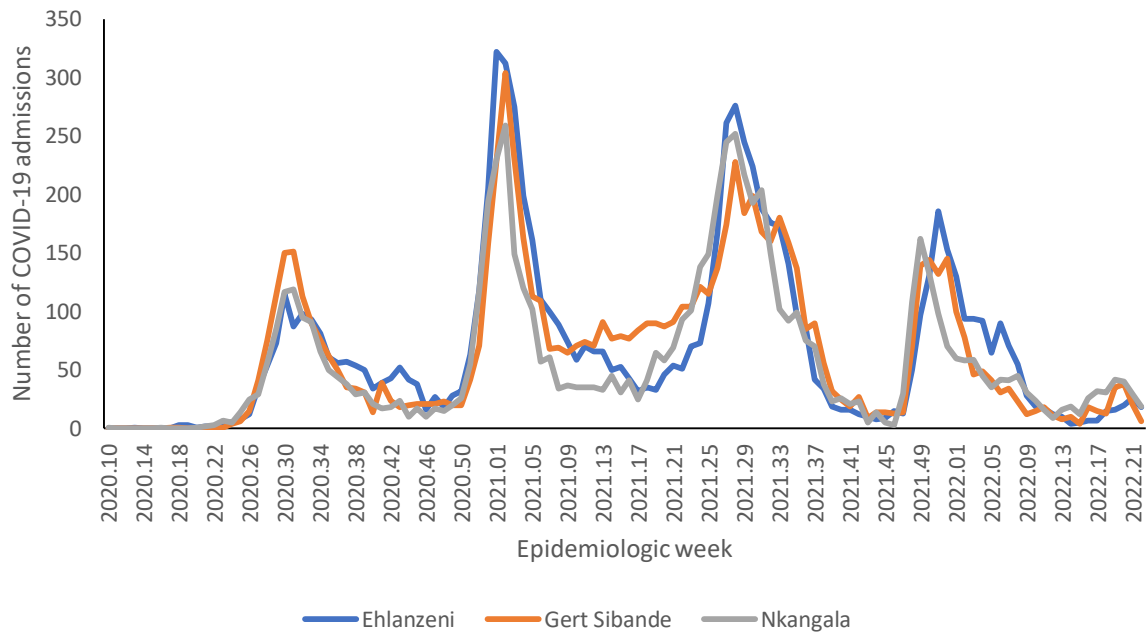


Figure 29: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-4 June 2022, N=22,622

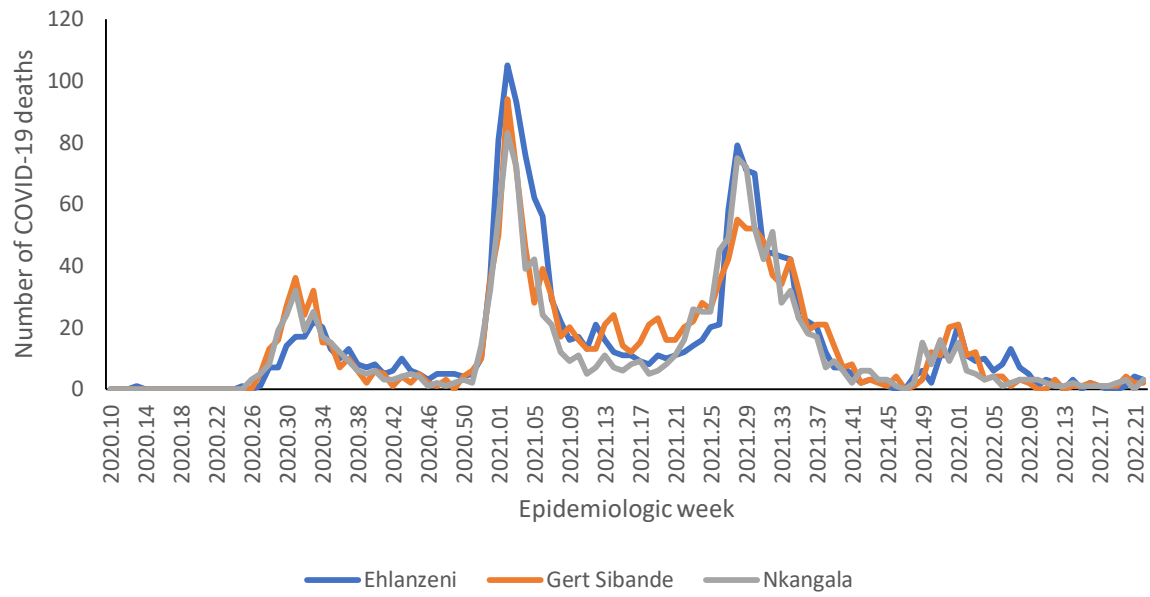


Figure 30: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-4 June 2022, N=4,874

Table 10: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 7 May-4 June 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	2.57	3.14	22.22	0.07	0.50	600.00
Gert Sibande	5.21	1.93	-63.01	0.36	0.29	-20.00
Nkangala	5.86	3.50	-40.24	0.36	0.21	-40.00

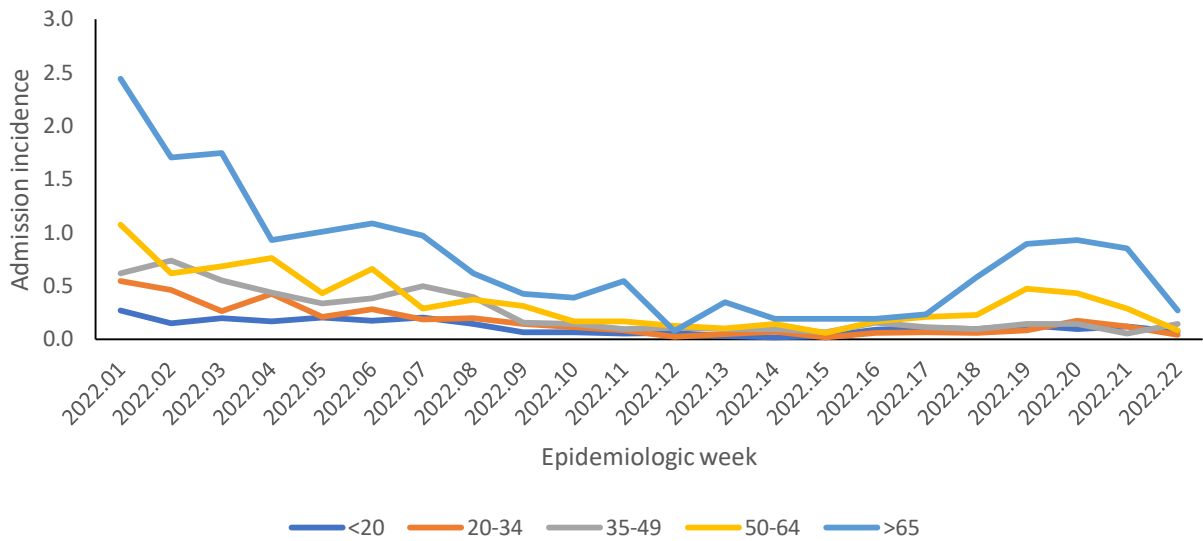


Figure 31a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Mpumalanga, week 1-22 2022

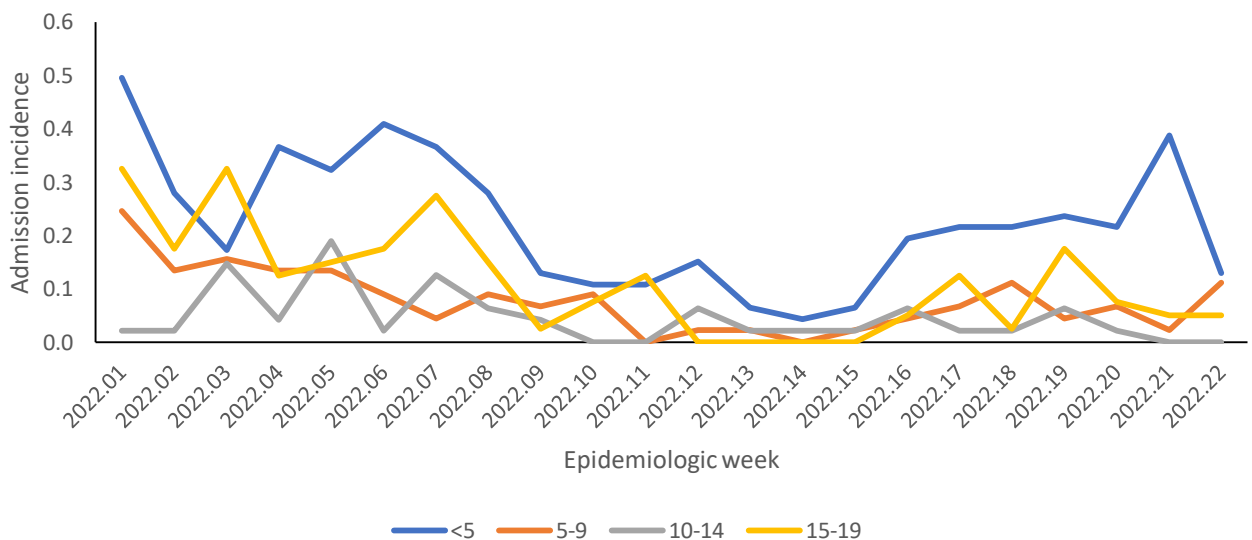


Figure 31b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Mpumalanga, week 1-22 2022

North West

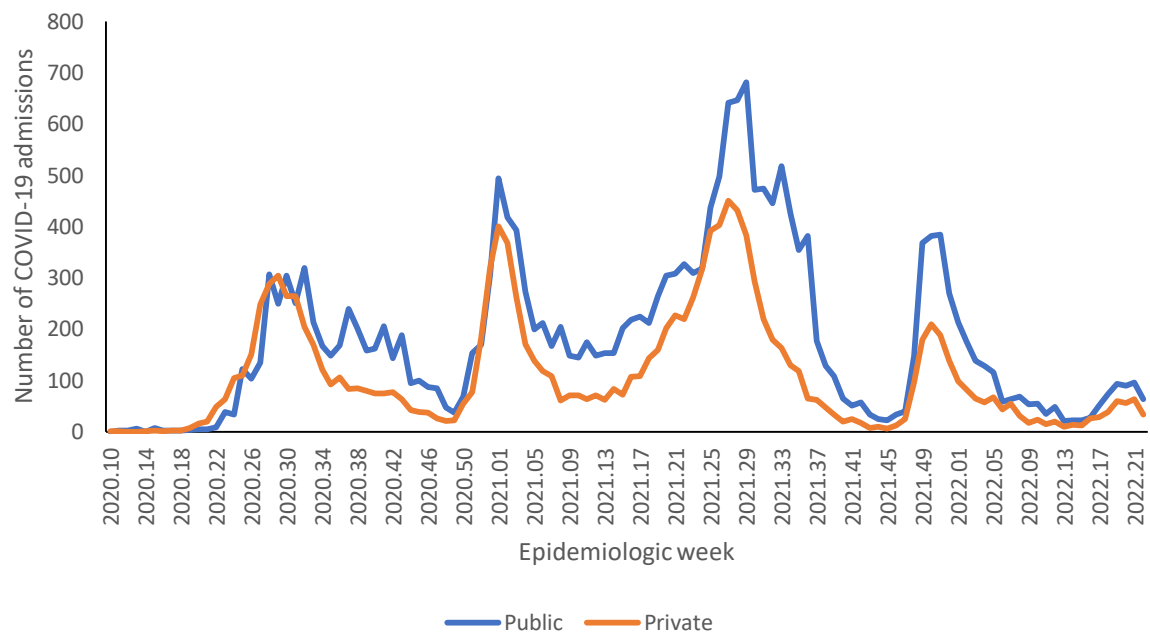


Figure 32: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-4 June 2022, N=34,039

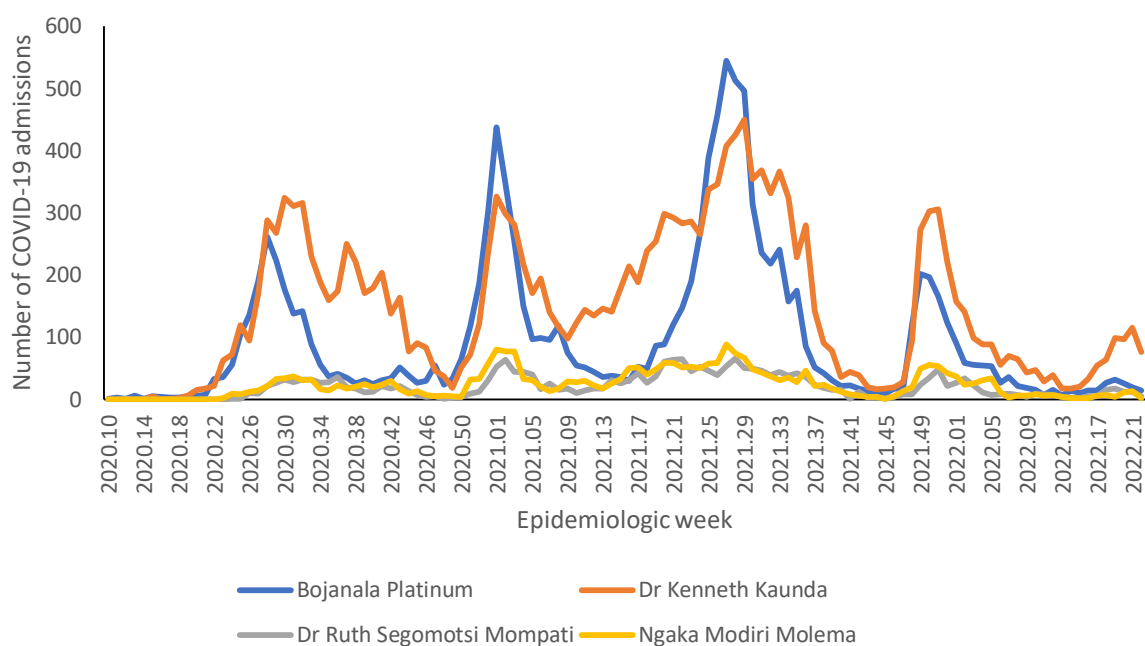


Figure 33: Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-4 June 2022, N=34,039

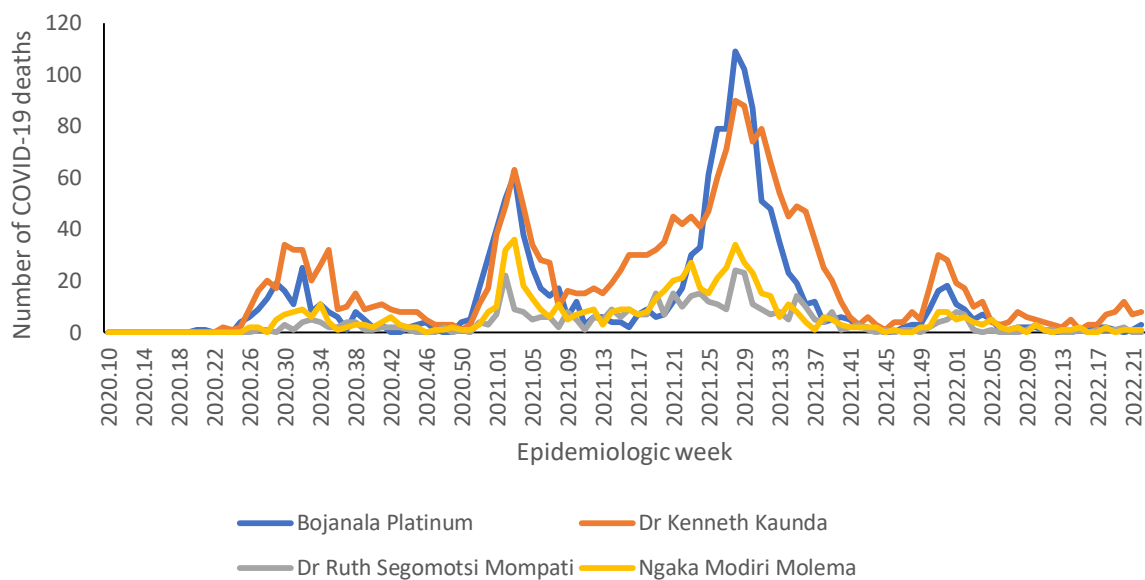


Figure 34: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-4 June 2022, N=4,936

Table 11: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 7 May-4 June 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	4.14	2.43	-41.38	0.07	0.29	300.00
Dr Kenneth Kaunda	14.00	13.64	-2.55	1.43	1.07	-25.00
Dr Ruth Segomotsi Mompoti	2.14	1.21	-43.33	0.21	0.00	-100.00
Ngaka Modiri Molema	1.07	1.07	0.00	0.07	0.14	100.00

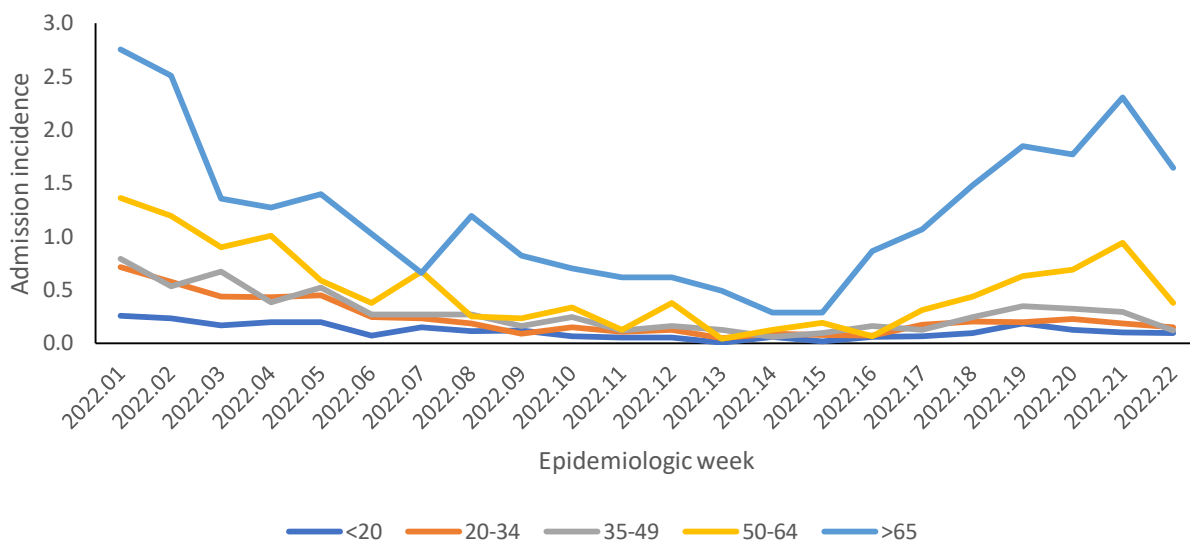


Figure 35a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, North West, week 1-22 2022

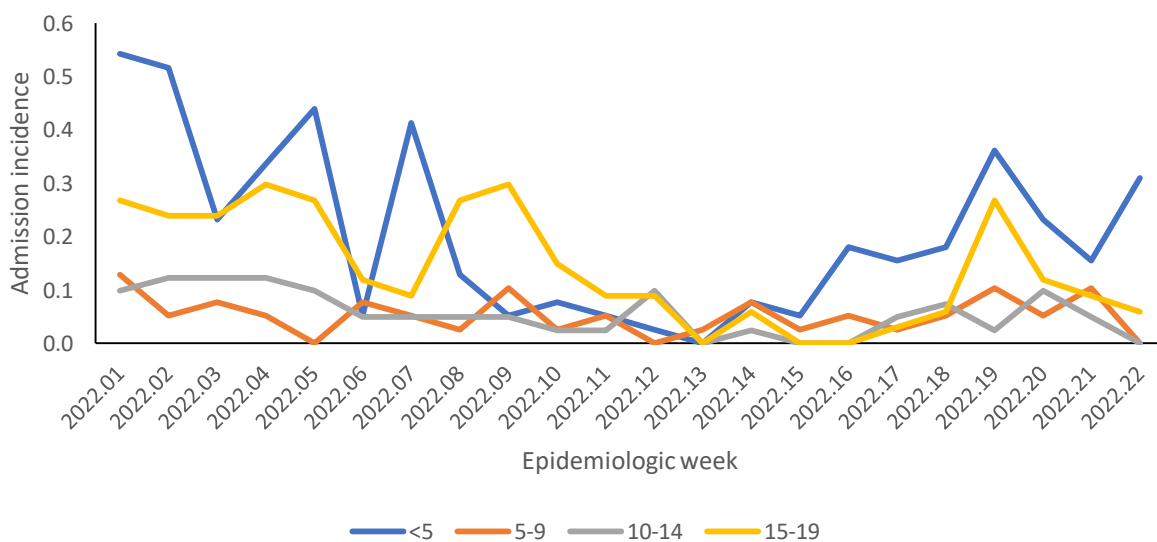


Figure 35b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, North West, week 1-22 2022

Northern Cape

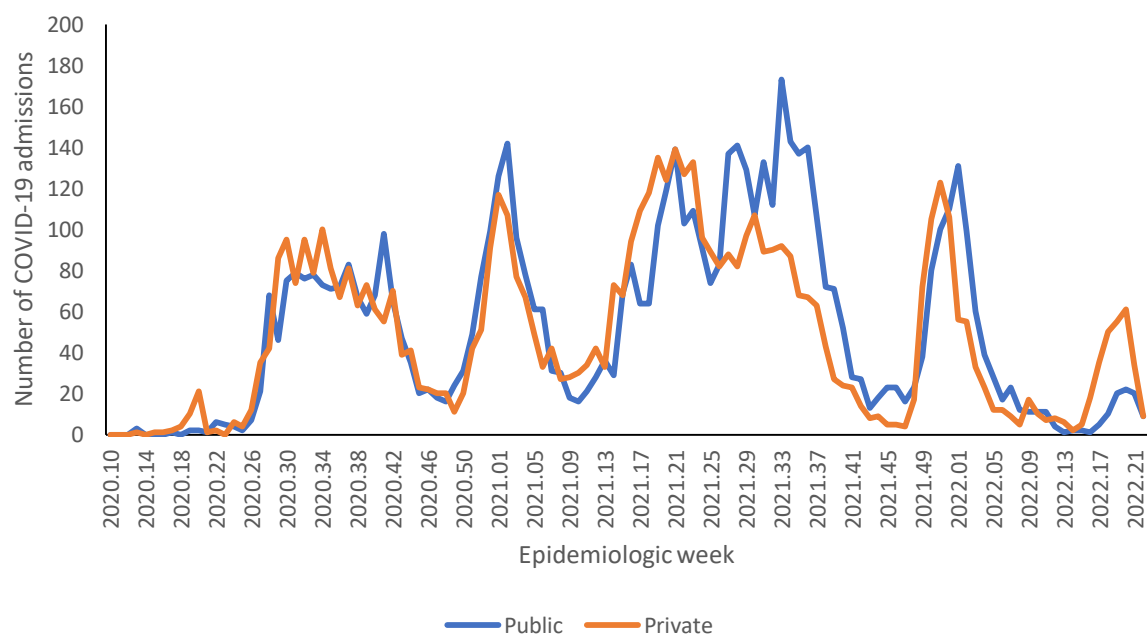


Figure 36: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-4 June 2022, N=11,837

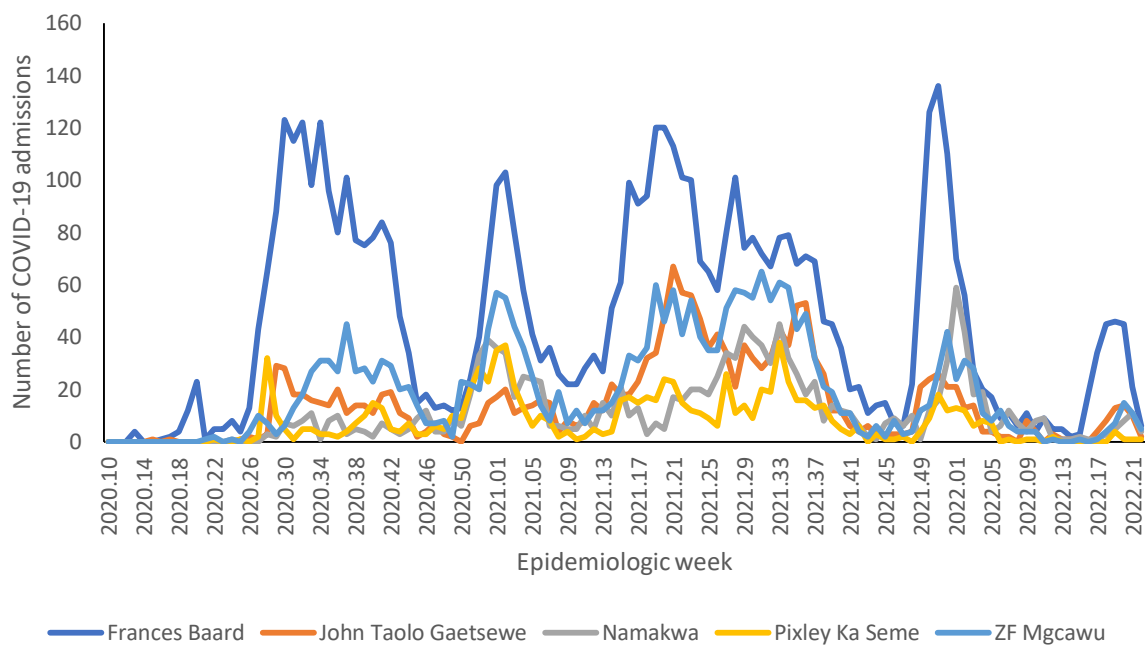


Figure 37: Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-4 June 2022, N=11,837

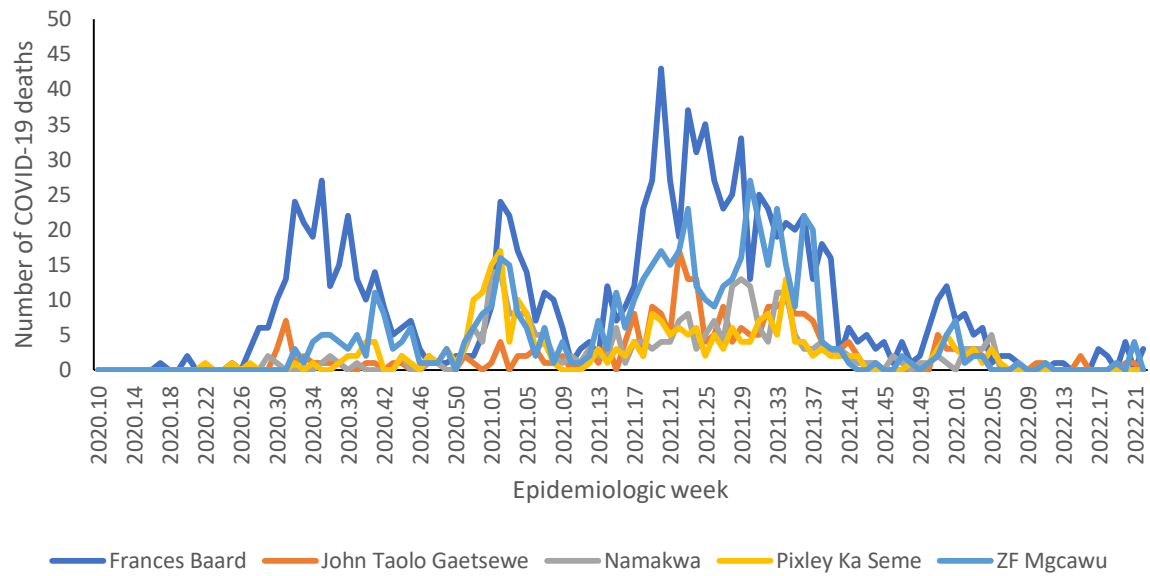


Figure 38: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-4 June 2022, N=2,449

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 7 May-4 June 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	6.50	1.93	-70.33	0.29	0.21	-25.00
John Taolo Gaetsewe	1.93	0.86	-55.56	0.07	0.07	0.00
Namakwa	0.93	1.07	15.38	0.07	0.00	-100.00
Pixley Ka Seme	0.36	0.14	-60.00	0.00	0.00	0.00
ZF Mgcawu	1.57	1.14	-27.27	0.07	0.29	300.00

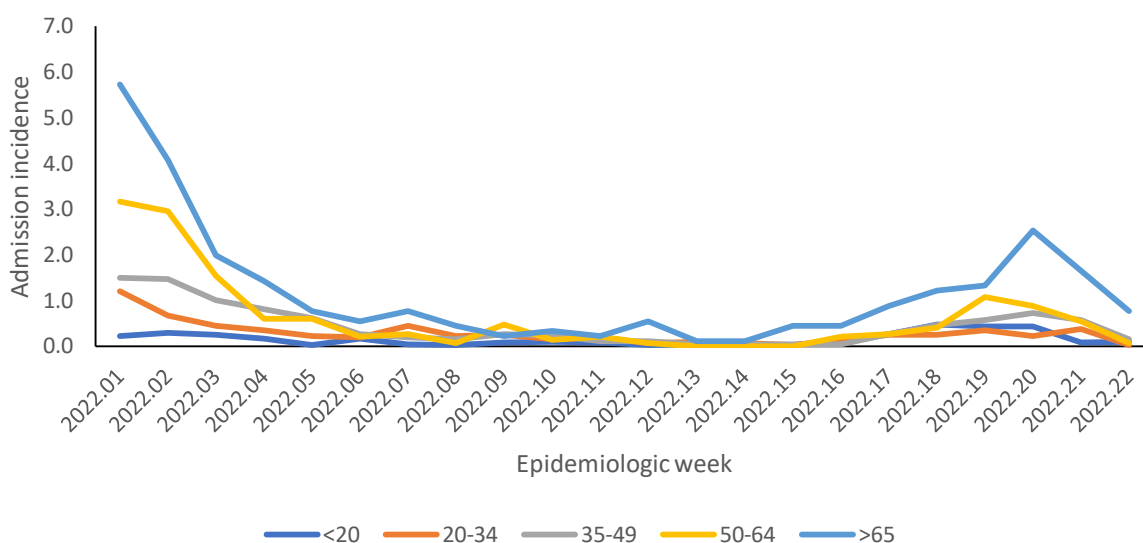


Figure 39a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Northern Cape, week 1-22 2022

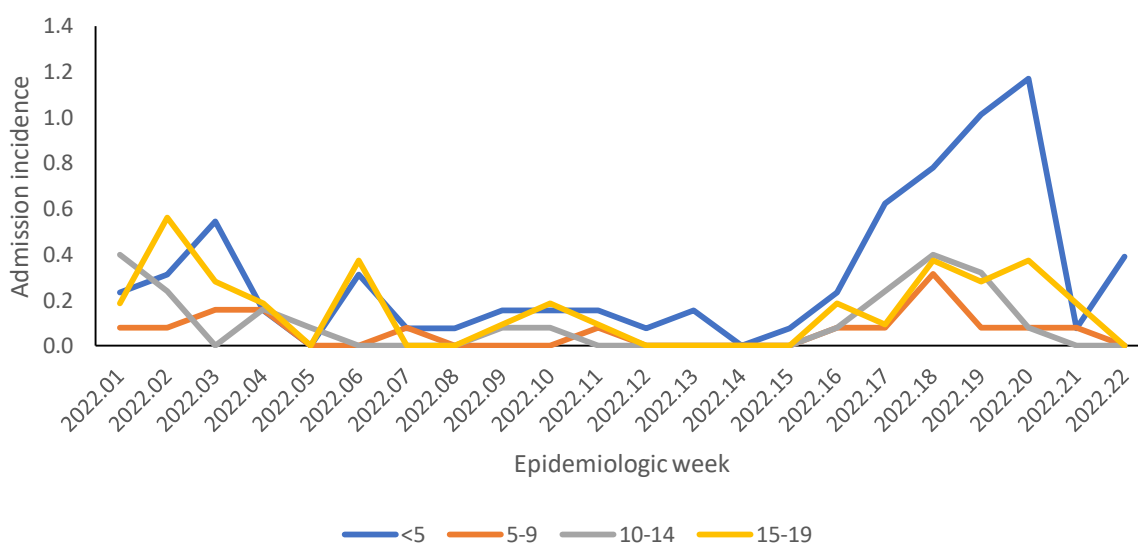


Figure 39b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Northern Cape, week 1-22 2022

Western Cape

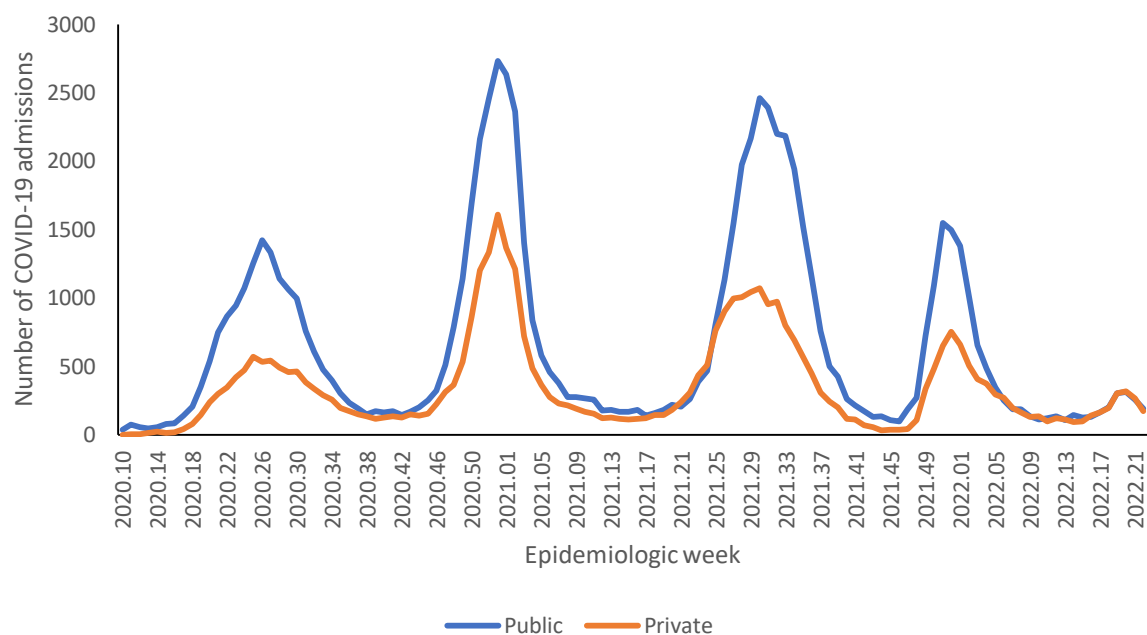


Figure 40: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-4 June 2022, N=119,381

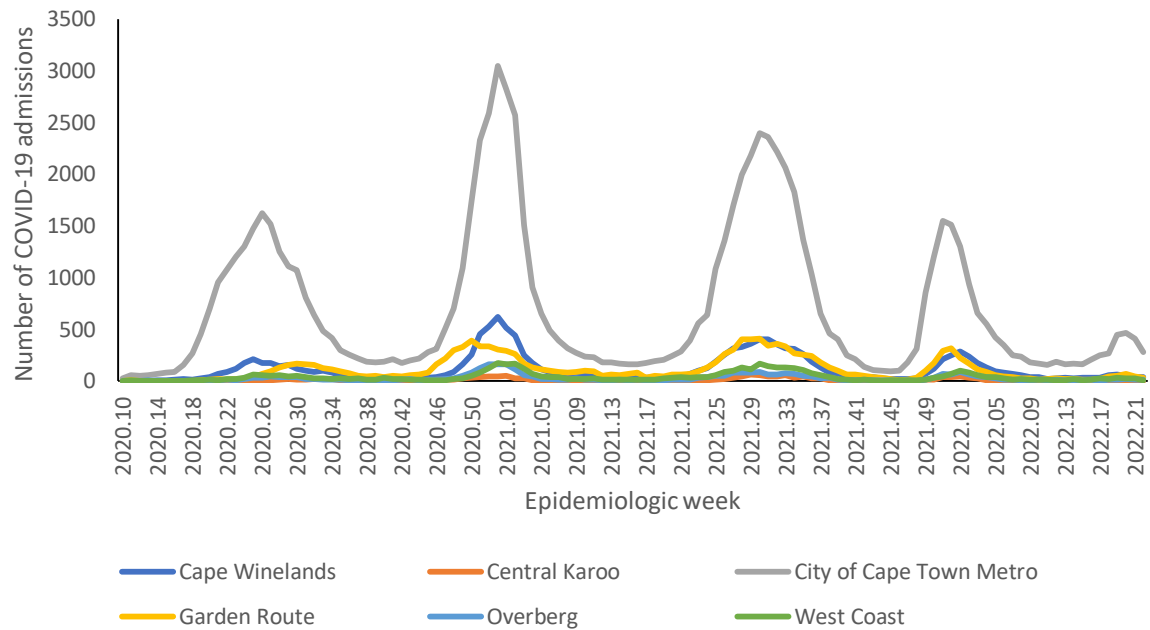


Figure 41: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-4 June 2022, N=119,381

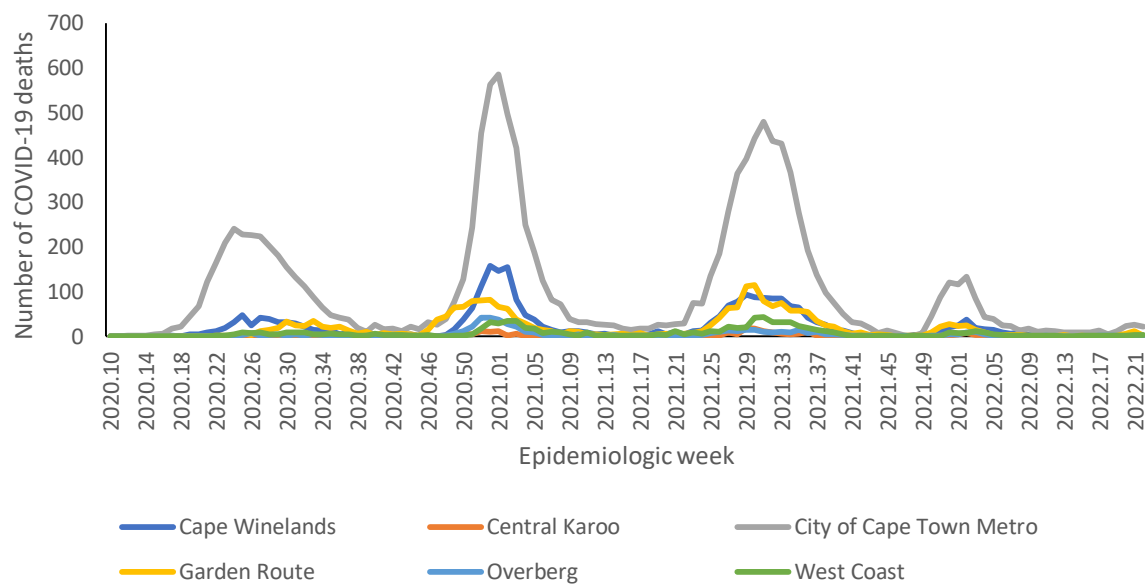


Figure 42: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-4 June 2022, N=18,725

Table 13: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 7 May-4 June 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	8.36	5.07	-39.32	0.36	0.57	60.00
Central Karoo	0.93	0.21	-76.92	0.14	0.00	-100.00
City of Cape Town Metro	65.00	49.00	-24.62	2.43	3.36	38.24
Garden Route	8.29	5.36	-35.34	0.57	0.93	62.50
Overberg	2.07	1.50	-27.59	0.14	0.00	-100.00
West Coast	3.79	2.29	-39.62	0.29	0.43	50.00

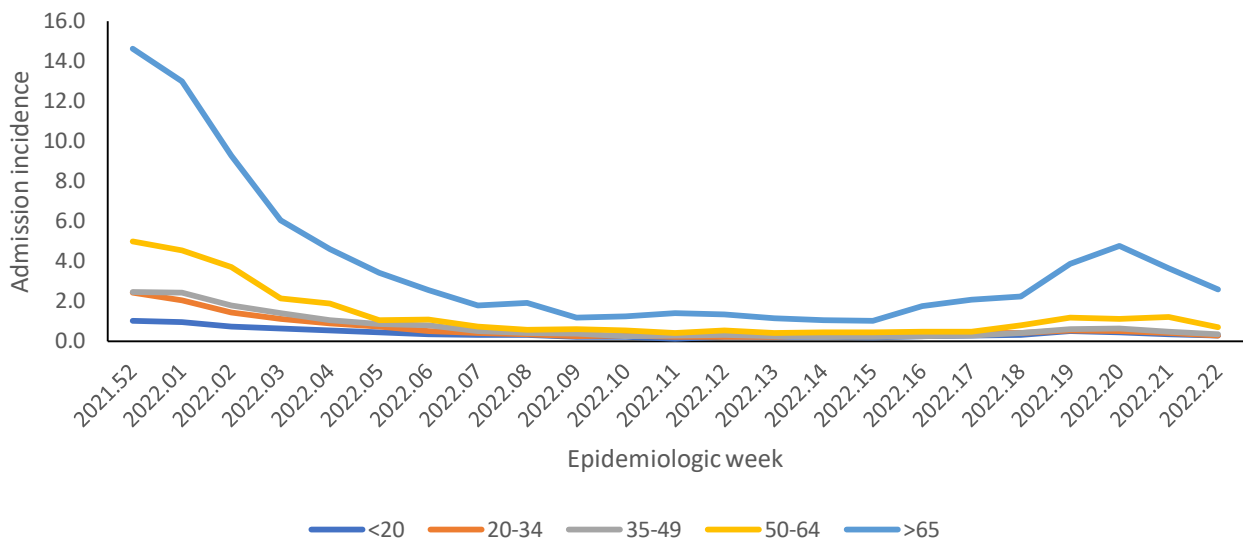


Figure 43a: Incidence risk of COVID-19 admissions per 100,000 persons, by age group (years) and epidemiologic week of diagnosis, Western Cape, week 1-22 2022

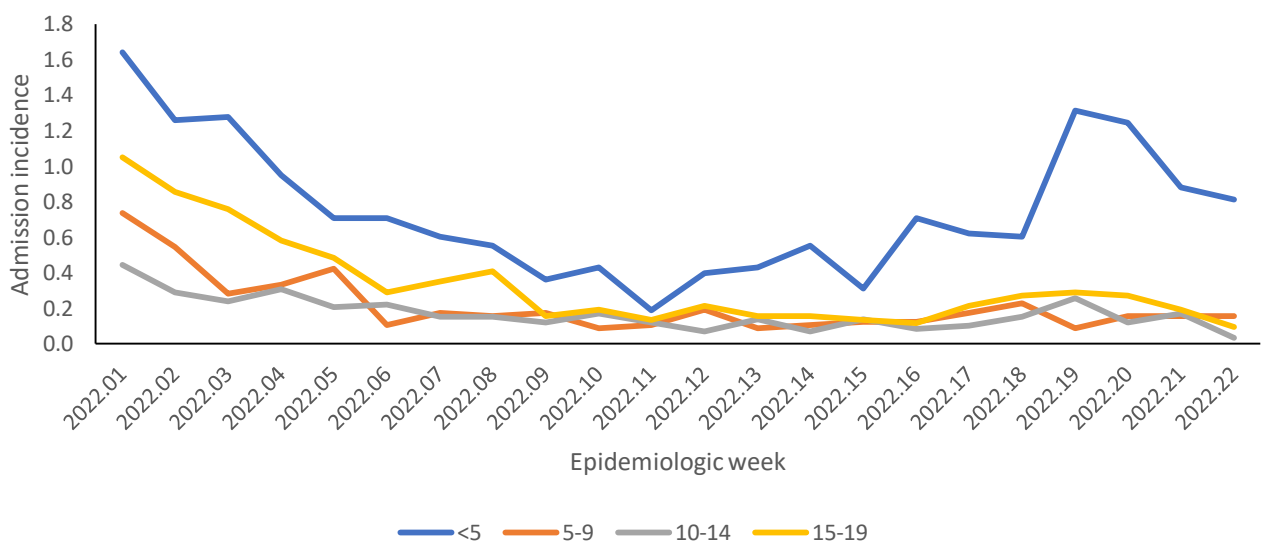


Figure 43b: Incidence risk of COVID-19 admissions per 100,000 persons, among children <20 years, by age group (years) and epidemiologic week of diagnosis, Western Cape, week 1-22 2022

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, 21 May-4 June 2022

Province	District	Total admissions	Incidence (per 100k)	New admissions	New admissions incidence (per 100k)	% average change (14 days)
Eastern Cape	Alfred Nzo	2740	332.32	8	0.97	-52.94
	Amathole	3293	420.80	5	0.64	-16.67
	Buffalo City Metro	10621	1341.90	8	1.01	-65.22
	Chris Hani	5256	737.62	5	0.70	-80.77
	Joe Gqabi	1195	348.48	0	0.00	-100.00
	Nelson Mandela Bay Metro	16762	1389.42	62	5.14	-18.42
	O R Tambo	5009	326.62	10	0.65	-37.50
	Sarah Baartman	3397	703.94	8	1.66	-63.64
Free State	Fezile Dabi	3815	745.77	18	3.52	-14.29
	Lejweleputswa	6651	1018.25	33	5.05	-19.51
	Mangaung Metro	15189	1733.15	64	7.30	-24.71
	Thabo Mofutsanyana	5791	757.70	18	2.36	-30.77
	Xhariep	731	575.40	4	3.15	100.00
Gauteng	City of Johannesburg Metro	55858	928.92	148	2.46	-44.36
	City of Tshwane Metro	43926	1149.79	168	4.40	-37.55
	Ekurhuleni Metro	33964	839.36	91	2.25	-49.16
	Sedibeng	10042	1030.99	25	2.57	-52.83
	West Rand	13711	1433.59	24	2.51	-74.47
KwaZulu-Natal	Amajuba	4710	830.68	5	0.88	-72.22
	eThekweni Metro	40320	1005.59	66	1.65	-59.01
	Harry Gwala	2764	546.10	4	0.79	-69.23
	iLembe	3074	441.85	3	0.43	-50.00
	King Cetshwayo	9658	1012.23	27	2.83	-46.00
	Ugu	5900	733.42	21	2.61	-46.15
	uMgungundlovu	11776	1033.06	51	4.47	4.08
	uMkhanyakude	1510	219.48	1	0.15	-80.00
	Umzinyathi	2381	422.10	5	0.89	-16.67
	UThukela	3280	468.32	7	1.00	-63.16
	Zululand	2530	286.14	4	0.45	-50.00
Limpopo	Capricorn	8676	653.84	8	0.60	-11.11
	Mopani	3805	316.38	5	0.42	-28.57
	Sekhukhune	2150	176.72	7	0.58	-22.22
	Vhembe	3079	215.27	7	0.49	0.00

	Waterberg	3321	442.71	6	0.80	-40.00
Mpumalanga	Ehlanzeni	8001	437.60	21	1.15	-25.00
	Gert Sibande	7720	608.89	7	0.55	-74.07
	Nkangala	6904	419.10	20	1.21	-37.50
North West	Bojanala Platinum	11352	582.70	14	0.72	-33.33
	Dr Kenneth Kaunda	17500	2178.51	79	9.83	-35.25
	Dr Ruth Segomotsi Mompoti	2380	510.16	5	1.07	-58.33
	Ngaka Modiri Molema	2811	310.66	2	0.22	-84.62
Northern Cape	Frances Baard	5567	1338.32	6	1.44	-73.91
	John Taolo Gaetsewe	1684	609.35	3	1.09	-75.00
	Namakwa	1356	1159.06	4	3.42	-69.23
	Pixley Ka Seme	923	438.66	1	0.48	0.00
	ZF Mgcawu	2311	815.71	5	1.76	-54.55
Western Cape	Cape Winelands	13531	1415.65	44	4.60	-18.52
	Central Karoo	1393	1837.92	1	1.32	-85.71
	City of Cape Town Metro	83591	1786.55	379	8.10	-31.22
	Garden Route	13236	2106.82	35	5.57	-46.97
	Overberg	3280	1073.55	12	3.93	-14.29
	West Coast	4514	961.46	9	1.92	-68.97

Table 15: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-4 June 2022

Age Group (Years)	ADMISSIONS				DEATHS			
	Female	Male	Unknown	Total	Female	Male	Unknown	Total
0-4	7052	8974	44	16070	178	204	3	385
5-9	1994	2632	8	4634	30	33	0	63
10-14	2660	2764	11	5435	66	69	0	135
15-19	7271	4085	6	11362	158	136	0	294
20-24	11195	5642	10	16847	351	268	1	620
25-29	17714	7966	14	25694	755	518	1	1274
30-34	22627	12587	13	35227	1291	1110	1	2402
35-39	23215	16473	22	39710	1838	1737	4	3579
40-44	20525	18170	15	38710	2256	2336	0	4592
45-49	22605	22147	12	44764	3214	3424	1	6639
50-54	26101	24469	10	50580	4377	4546	2	8925
55-59	28979	26478	15	55472	6192	6218	5	12415
60-64	25835	23650	20	49505	6663	6880	6	13549
65-69	22347	19881	17	42245	6898	6470	6	13374
70-74	19148	16860	19	36027	6154	5988	4	12146
75-79	14555	11999	9	26563	4891	4573	3	9467
80-84	11136	7914	8	19058	4014	3150	3	7167
85-89	6118	3814	2	9934	2259	1652	0	3911
90-94	2670	1346	1	4017	1110	639	0	1749
>=95	820	383	3	1206	364	162	0	526
Unknown	888	688	47	1623	48	44	0	92
Total	295455	238922	306	534683	53107	50157	40	103304

