

COVID-19 HOSPITAL SURVEILLANCE UPDATE

SOUTH AFRICA WEEK 16 2022

OVERVIEW

This report summarises data of COVID-19 cases admitted to DATCOV hospital surveillance sites in all provinces. The report is based on data collected from 5 March 2020 to 23 April 2022.

HIGHLIGHTS

- From 5 March 2020 to 23 April 2022, 518,260 COVID-19 admissions and 102,173 in-hospital deaths were reported to DATCOV from 667 facilities (407 public-sector and 260 private-sector) in all nine provinces of South Africa.
- There was 16% increase in the number of new admissions in week 16 2022 (990) compared to the number of admissions in week 15 2022 (853).
- Gauteng had the highest number of admissions in the past week (417/990, 42.1%), followed by KwaZulu-Natal (228/990, 23.0%) and Western Cape (178/990, 18.0%). The lowest number of admissions was in Northern Cape (6/990, 0.6%).
- There was an increase in the average daily COVID-19 admissions comparing the previous 14 days and the current 14 days in Free State, Gauteng, KwaZulu-Natal, Limpopo, North West and Northern Cape; and a small increase in deaths comparing the previous 14 days and the current 14 days in Free State, KwaZulu-Natal, Limpopo, Northern Cape and Western Cape.
- In the past week, 29 out of 52 districts (55.7%) showed an increase in percentage incidence change in hospital admissions over 14 days: Joe Gqabi (Eastern Cape), Fezile Dabi, Lejweleputswa, Mangaung Metro, Thabo Mofutsanyana and Xhariep (Free State), City of Johannesburg Metro, City of Tshwane Metro and West Rand (Gauteng), eThekweni Metro, iLembe, King Cetshwayo, Ugu, uMgungundlovu and Zululand (KwaZulu-Natal), Capricorn, Mopani, Sekhukhune, Vhembe and Waterberg (Limpopo), Ehlanzeni, Gert Sibande and Nkangala (Mpumalanga), Dr Kenneth Kaunda (North West), Frances Baard and Pixley Ka Seme (Northern Cape) and Overberg and West Coast (Western Cape).
- The highest weekly incidence risk of COVID-19 admissions detected in week 16 of 2022 was reported in the ≥65-year age group (6.3 admissions per 100 000 persons), and the lowest weekly incidence risk was in the 10-14-year age group (0.1 admissions per 100 000 persons). The highest change in admissions from week 15 to week 16 was in the ≥65 age group (5.4%).

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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 23 April 2022, a total of 667 facilities submitted data on hospitalised COVID-19 cases, 407 from public sector and 260 from private sector (Table 1). This reflects 100% coverage of all public and private hospitals that have had COVID-19 admissions. As new hospitals join the surveillance system, they have retrospectively captured all admissions recorded although there may be some backlogs in retrospective data capture.

Table 1. Number of hospitals reporting data on COVID-19 admissions by province and sector, South Africa, 5 March 2020-23 April 2022.

| Name of province | Public | Private |
|---------------------|------------|------------|
| Eastern Cape | 86 | 18 |
| Free State | 35 | 20 |
| Gauteng | 40 | 97 |
| 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 | 260 |

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RESULTS

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

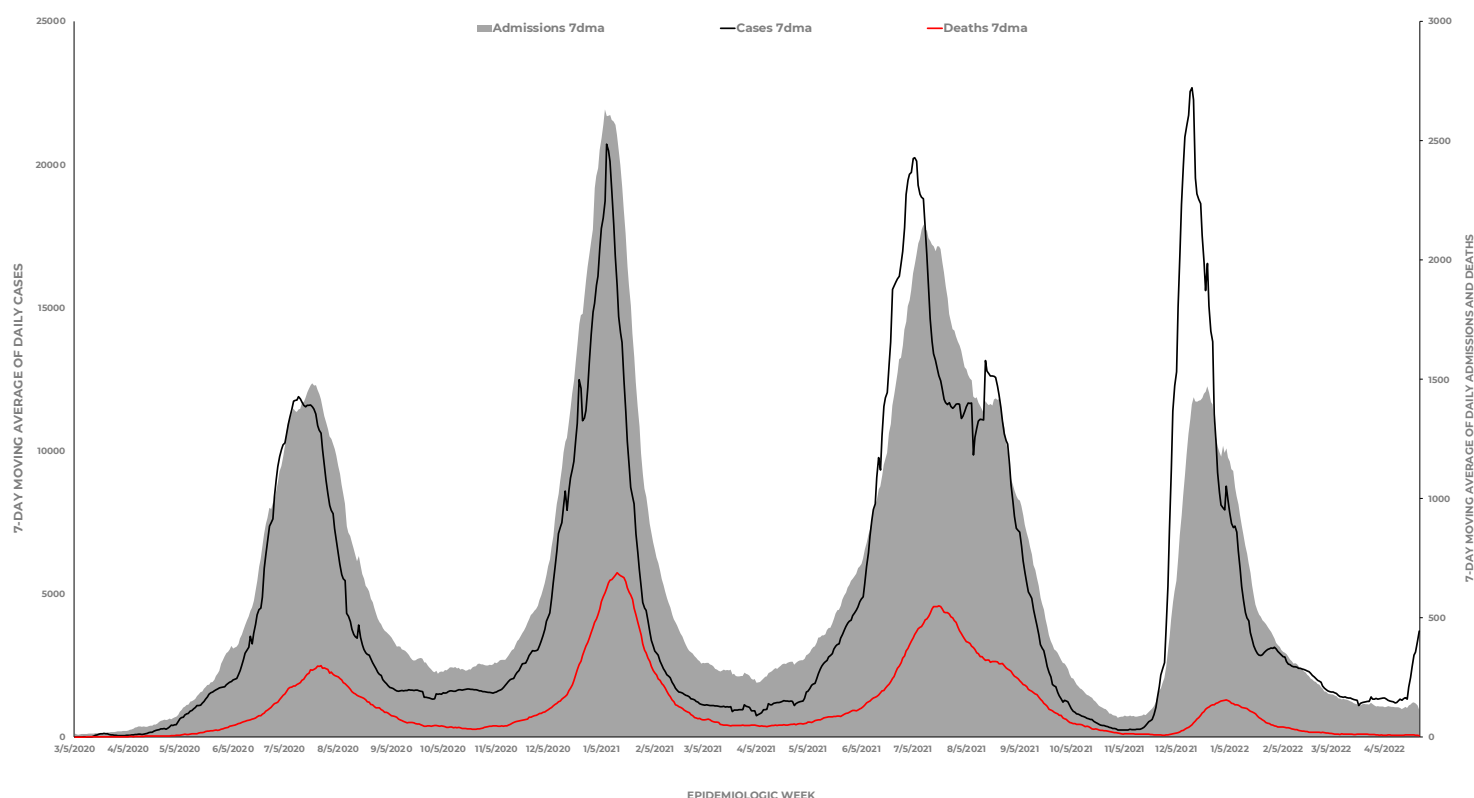


Figure 1. 7-day moving average of SARS-CoV-2 cases, COVID-19 admissions and in-hospital deaths, South Africa, 5 March 2020-23 April 2022.

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Epidemiological and geographic trends in admissions

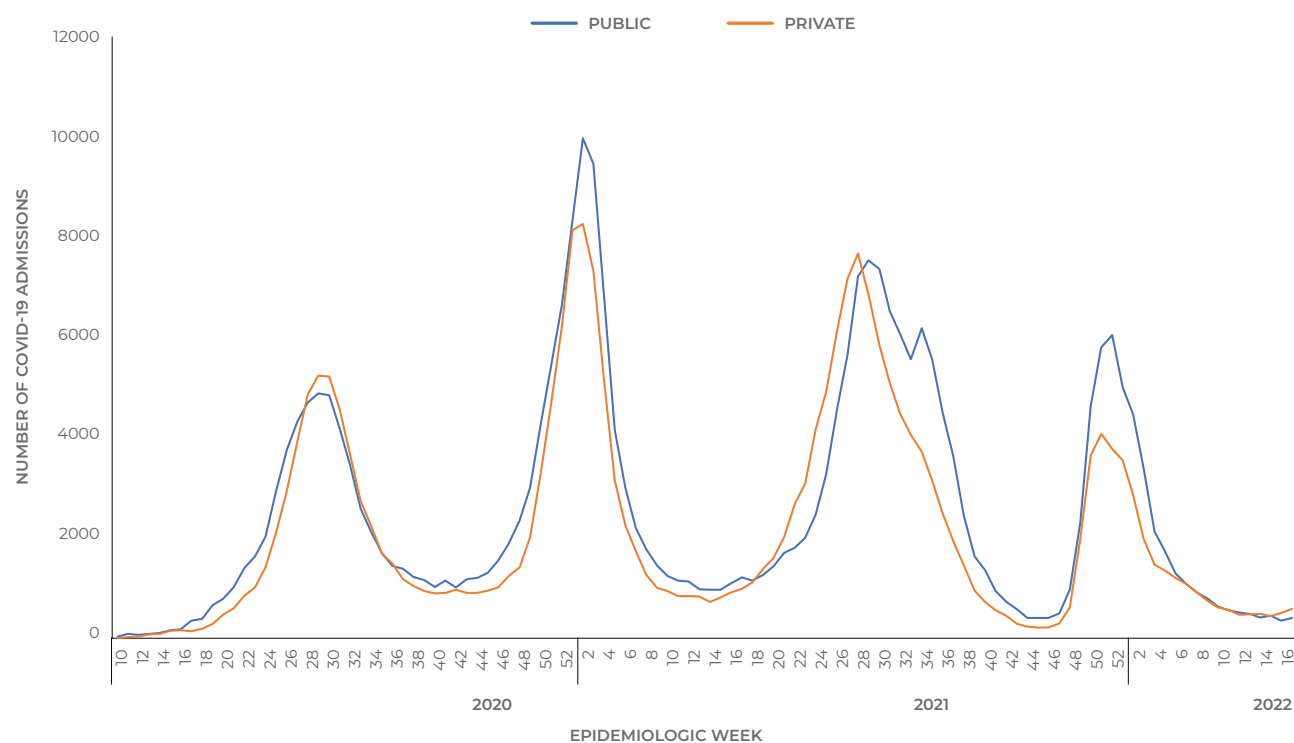


Figure 2. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, South Africa, 5 March 2020-23 April 2022, N=518,260

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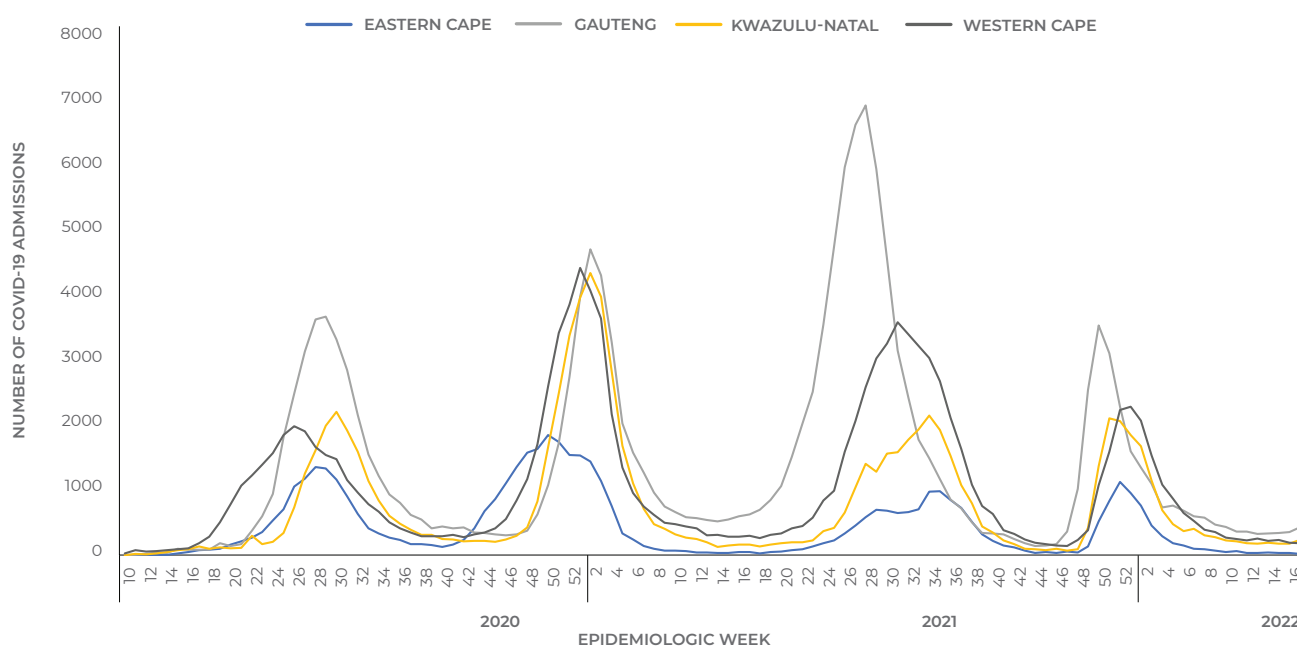


Figure 3a. Number of reported COVID-19 admissions, by provinces with highest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-23 April 2022, N=518,260

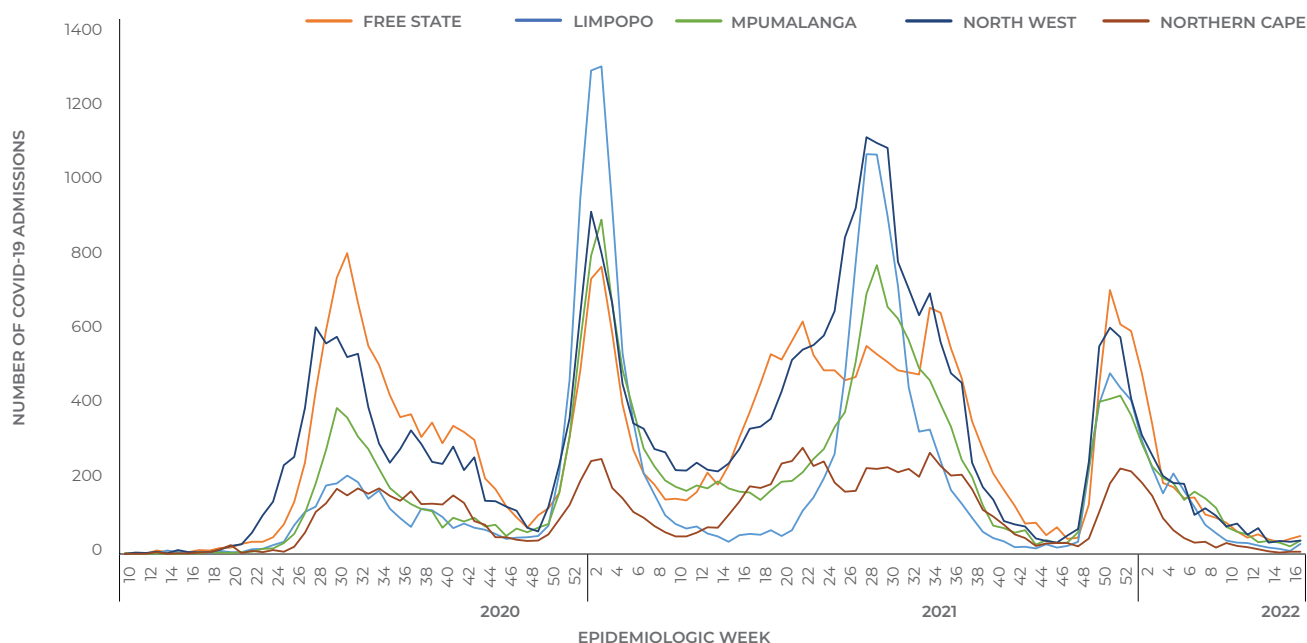


Figure 3b. Number of reported COVID-19 admissions, by provinces with lowest admissions and epidemiologic week of diagnosis, South Africa, 5 March 2020-23 April 2022, N=518,260

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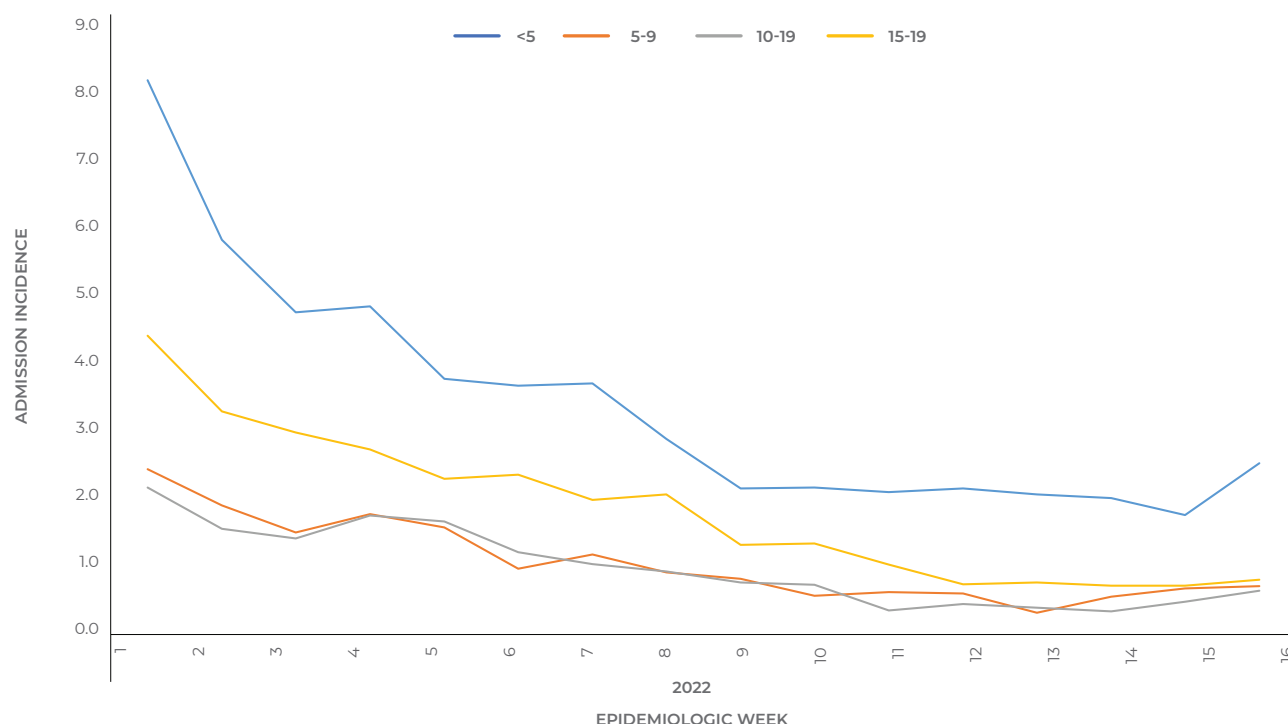


Figure 4a. Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, South Africa, week 1-16 2022

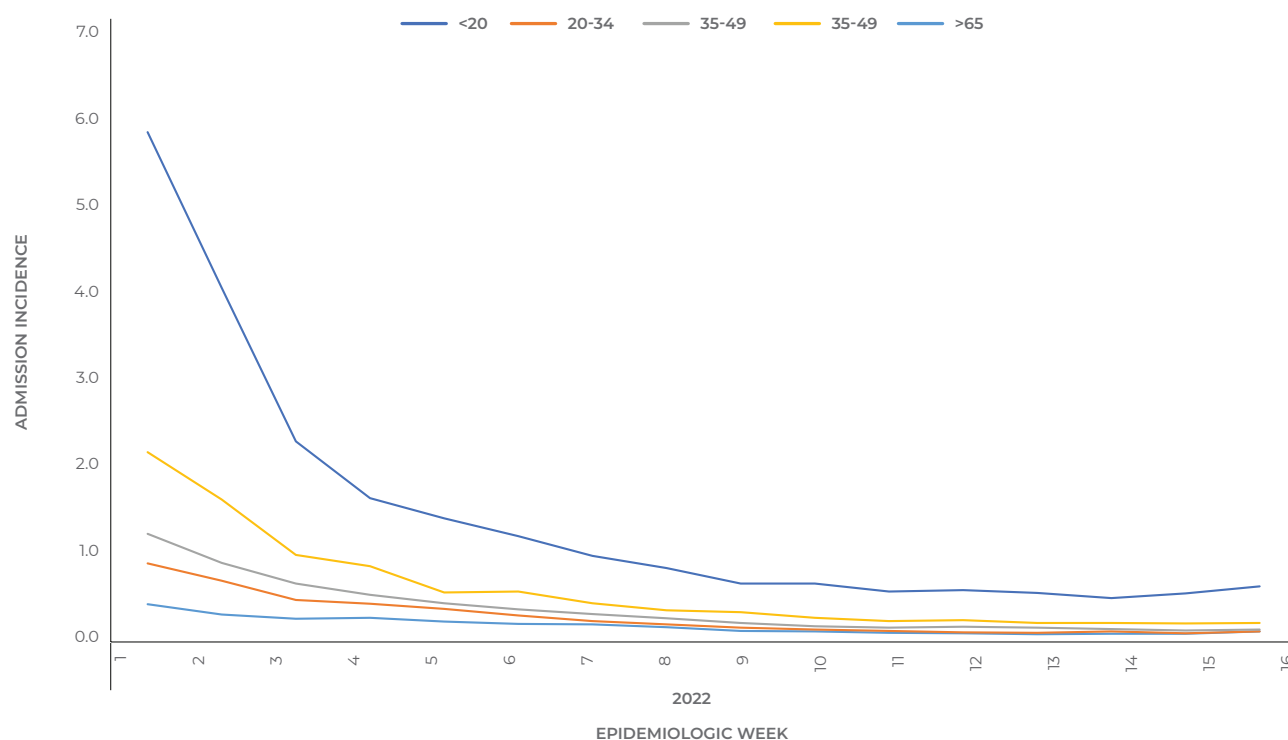


Figure 4b. Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week, South Africa, week 1-16 2022

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EPIDEMIOLOGICAL AND GEOGRAPHIC TRENDS IN IN-HOSPITAL MORTALITY

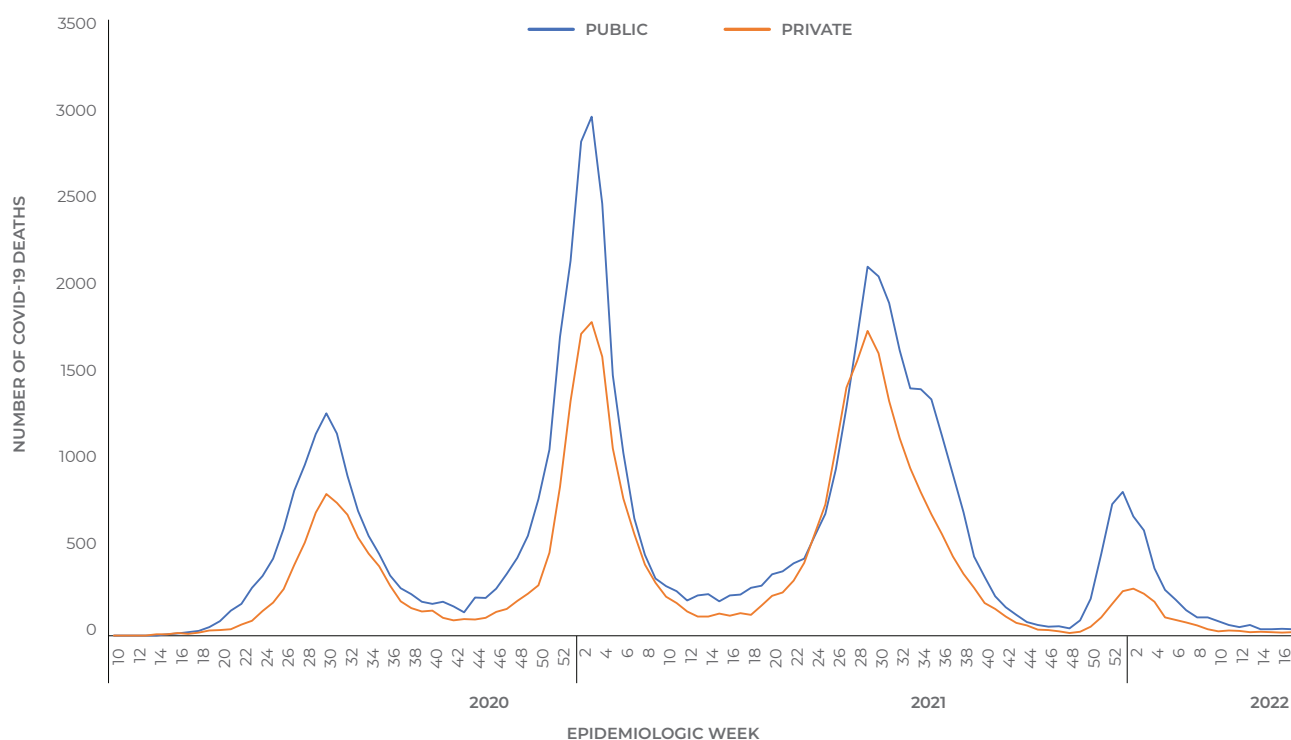


Figure 5. Number of reported COVID-19 in-hospital deaths, by health sector and epidemiologic week, South Africa, 5 March 2020-23 April 2022, N=102,173

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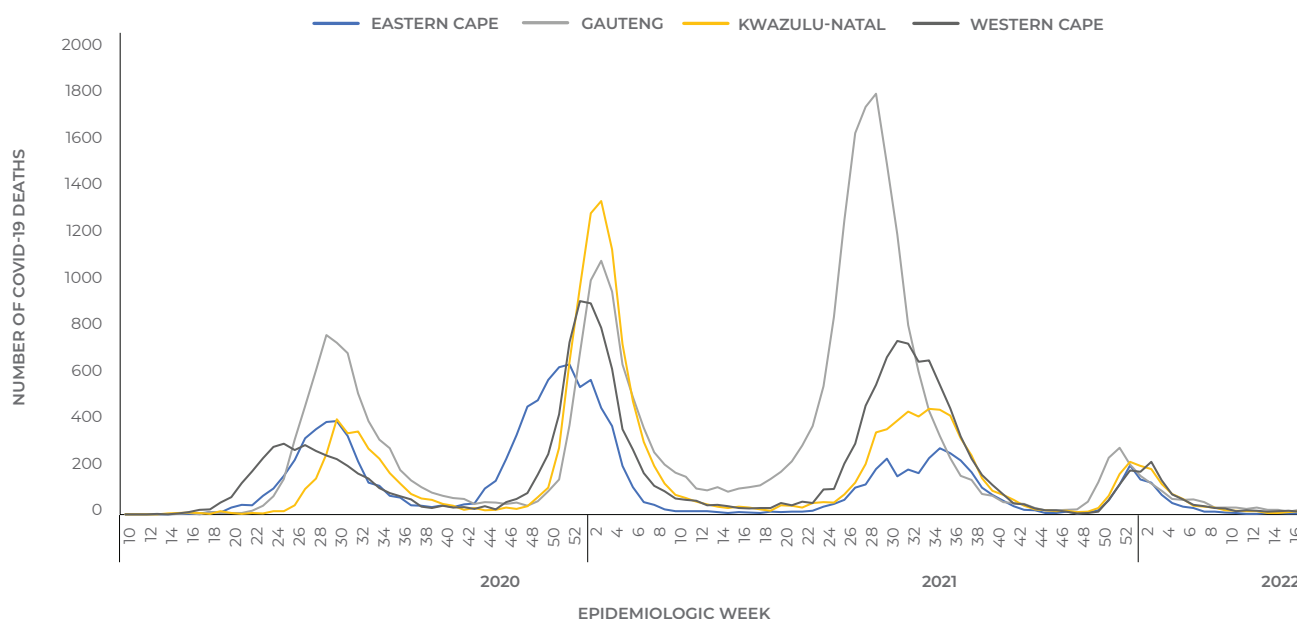


Figure 6a. Number of reported COVID-19 in-hospital deaths, by province with highest deaths and epidemiologic week of death, South Africa, 5 March 2020-23 April 2022, N=102,173

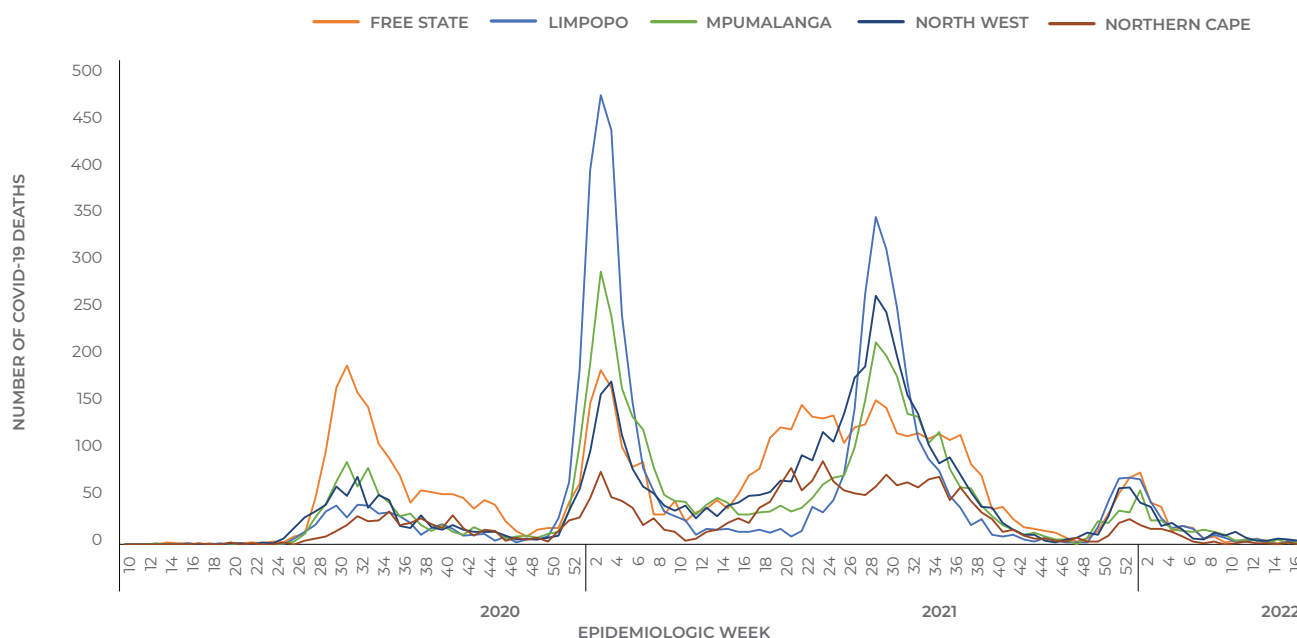


Figure 6b. Number of reported COVID-19 in-hospital deaths, by province with lowest deaths and epidemiologic week of death, South Africa, 5 March 2020-23 April 2022, N=102,173

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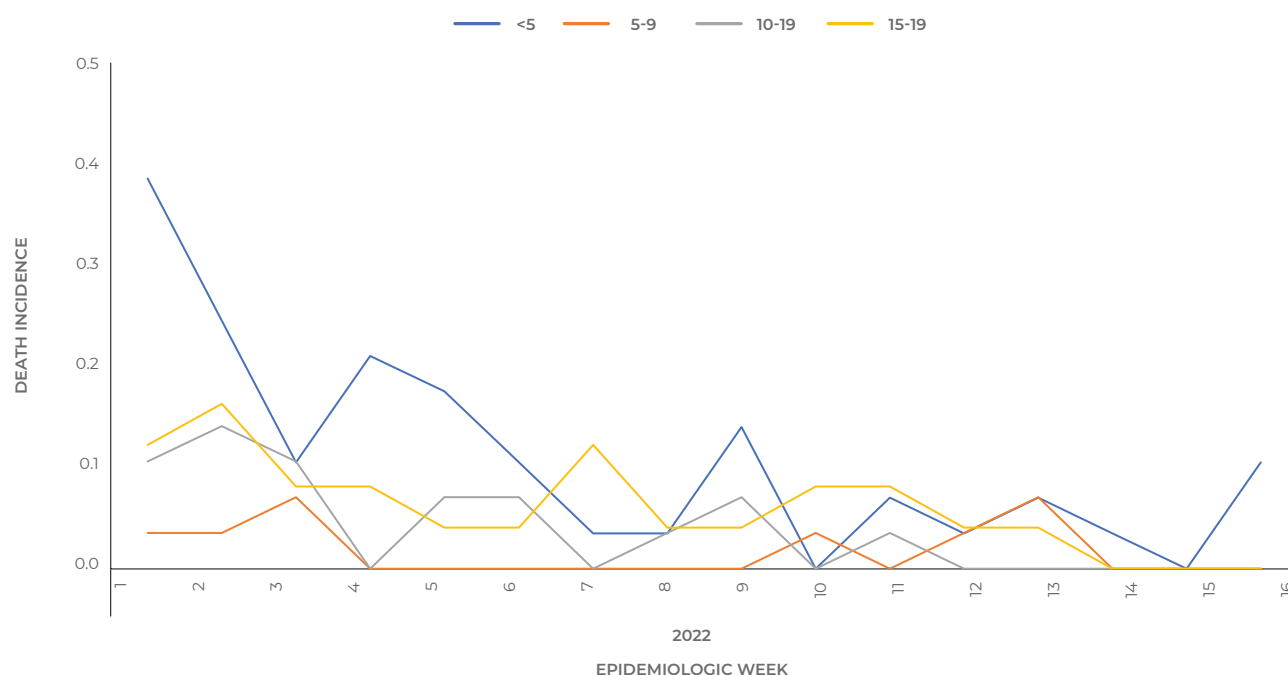


Figure 7a. Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, among children <19 years, by age group and epidemiologic week of death, South Africa, week 1-16 2022

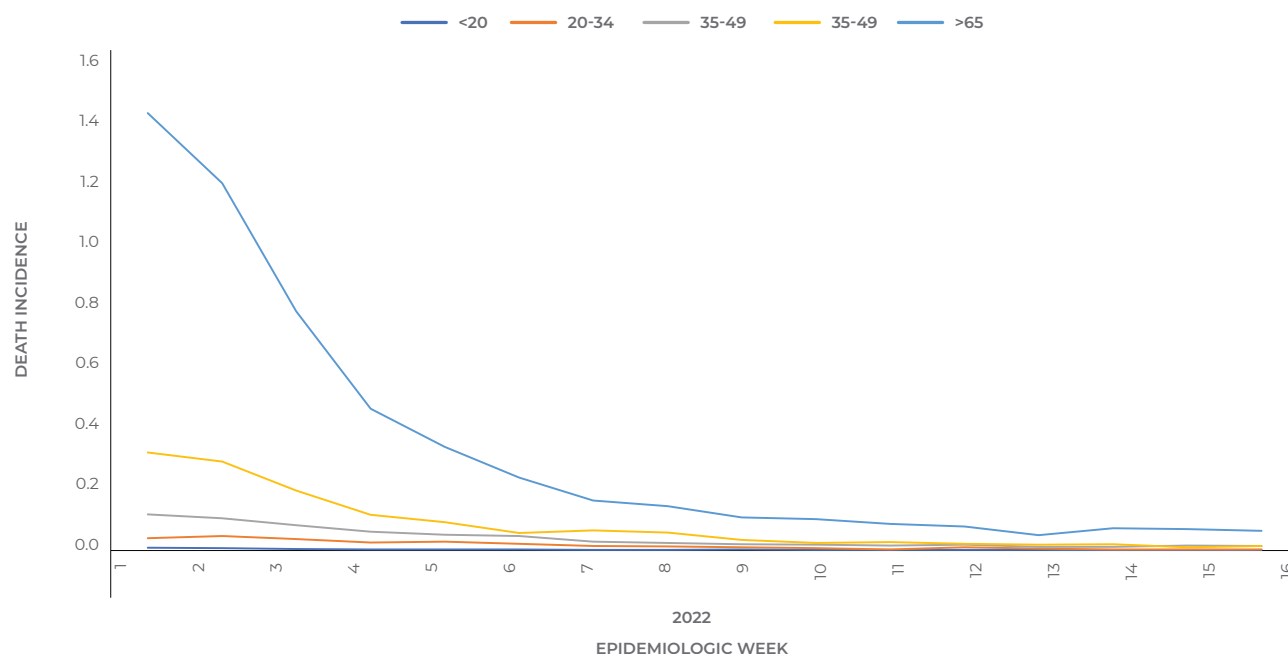


Figure 7b. Incidence risk of COVID-19 in-hospital deaths per 100,000 persons, by age group and epidemiologic week of death, South Africa, week 1-16 2022

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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 2020-23 April 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 | 47331 | 708.9 | 13120 | 196.5 |
| Free State | 2932441 | 31026 | 1058.0 | 6013 | 205.1 |
| Gauteng | 15810388 | 151 065 | 955.5 | 29837 | 188.7 |
| KwaZulu-Natal | 11513575 | 84736 | 736.0 | 17190 | 149.3 |
| Limpopo | 5926724 | 20770 | 350.4 | 5308 | 89.6 |
| Mpumalanga | 4743584 | 22169 | 467.3 | 4820 | 101.6 |
| North West | 4122854 | 33 294 | 807.5 | 4862 | 117.9 |
| Northern Cape | 1303047 | 11 496 | 882.2 | 2426 | 186.2 |
| Western Cape | 7113776 | 116 373 | 1635.9 | 18592 | 261.4 |
| South Africa | 60142978 | 518 260 | 861.7 | 102 168 | 169.9 |

*StatsSA mid-year population estimates 2020

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Table 3. Previous 14 days and current 14 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 26 March-23 April 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 | 5.00 | 3.79 | -24.29 | 0.86 | 0.57 | -33.33 |
| Free State | 4.93 | 6.14 | 24.64 | 0.36 | 0.43 | 20.00 |
| Gauteng | 47.14 | 54.57 | 15.76 | 2.86 | 2.29 | -20.00 |
| KwaZulu-Natal | 26.07 | 28.79 | 10.41 | 1.00 | 1.57 | 57.14 |
| Limpopo | 2.14 | 2.43 | 13.33 | 0.21 | 0.36 | 66.67 |
| Mpumalanga | 4.57 | 3.93 | -14.06 | 0.43 | 0.21 | -50.00 |
| North West | 4.57 | 4.79 | 4.69 | 0.71 | 0.64 | -10.00 |
| Northern Cape | 0.64 | 0.86 | 33.33 | 0.07 | 0.14 | 100.00 |
| Western Cape | 31.71 | 26.29 | -17.12 | 1.79 | 1.86 | 4.00 |

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

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Table 4. Previous 7 days and current 7 days daily average COVID-19 admissions and deaths and percentage changes, South Africa, 9 April-23 April 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 | 5.00 | 2.57 | -48.57 | 0.57 | 0.57 | 0.00 |
| Free State | 5.57 | 6.71 | 20.51 | 0.57 | 0.29 | -50.00 |
| Gauteng | 49.71 | 59.43 | 19.54 | 1.71 | 2.86 | 66.67 |
| KwaZulu-Natal | 25.00 | 32.57 | 30.29 | 1.29 | 1.86 | 44.44 |
| Limpopo | 1.14 | 3.71 | 225.00 | 0.57 | 0.14 | -75.00 |
| Mpumalanga | 2.86 | 5.00 | 75.00 | 0.14 | 0.29 | 100.00 |
| North West | 4.57 | 5.00 | 9.38 | 0.71 | 0.57 | -20.00 |
| Northern Cape | 0.86 | 0.86 | 0.00 | 0.29 | 0.00 | -100.00 |
| Western Cape | 27.14 | 25.43 | -6.32 | 2.14 | 1.57 | -26.67 |

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

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EASTERN CAPE

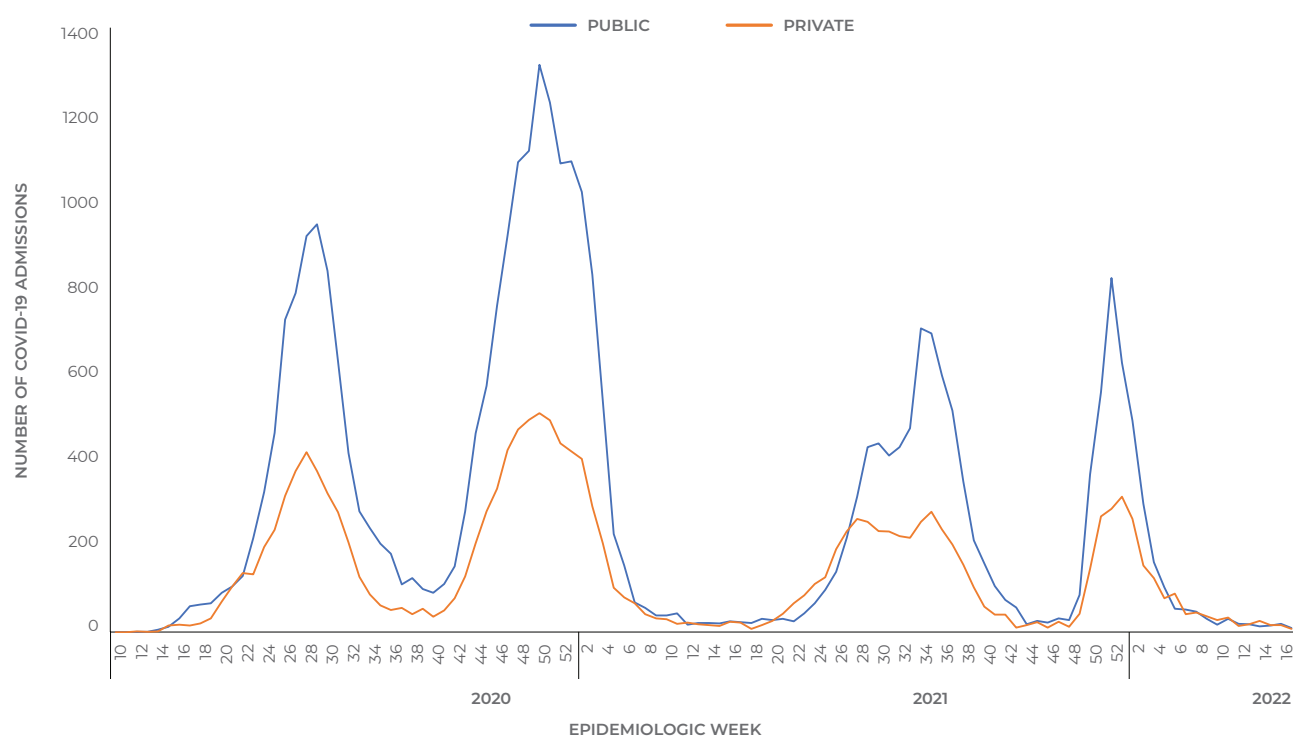


Figure 8: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Eastern Cape, 5 March 2020-23 April 2022, N=47,331

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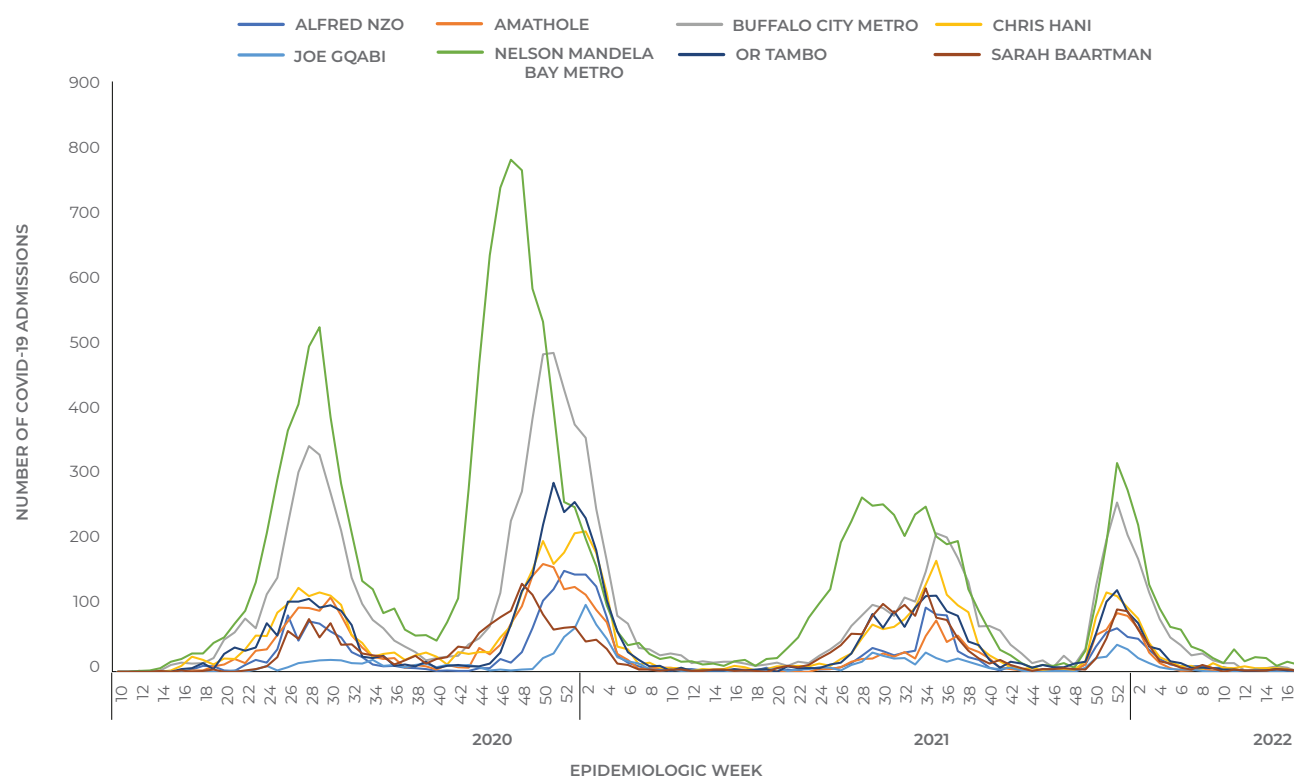


Figure 9. Number of reported COVID-19 admissions, by district and epidemiologic week, Eastern Cape, 5 March 2020-23 April 2022, N=47,331

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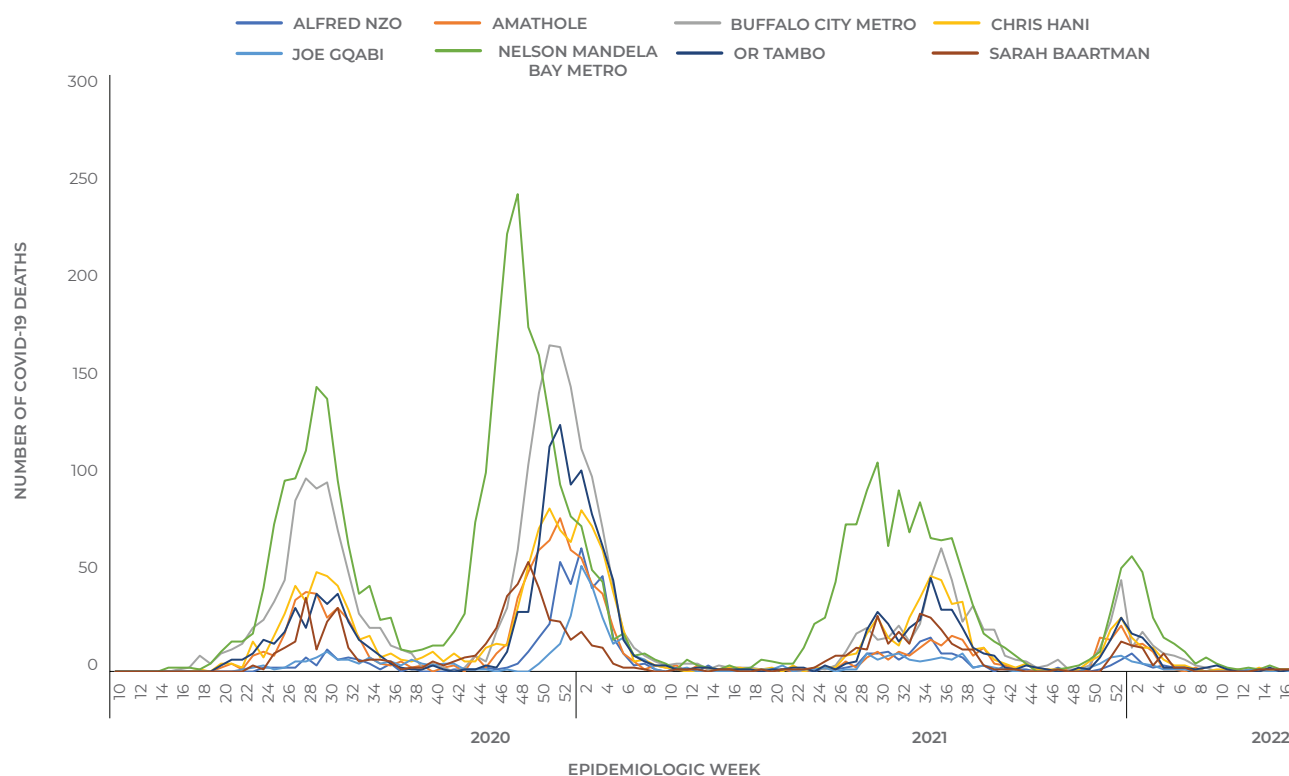


Figure 10. Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Eastern Cape, 5 March 2020-23 April 2022, N=13,120

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Table 5: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 26 March-23 April 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 | 0.21 | 0.14 | -33.33 | 0.07 | 0.00 | -100.00 |
| Amathole | 0.00 | 0.43 | 0.00 | 0.00 | 0.14 | 0.00 |
| Buffalo City Metro | 0.93 | 0.43 | -53.85 | 0.00 | 0.07 | 0.00 |
| Chris Hani | 0.71 | 0.29 | -60.00 | 0.14 | 0.00 | -100.00 |
| Joe Gqabi | 0.14 | 0.07 | -50.00 | 0.07 | 0.00 | -100.00 |
| Nelson Mandela Bay | 2.14 | 1.86 | -13.33 | 0.29 | 0.14 | -50.00 |
| O R Tambo | 0.43 | 0.29 | -33.33 | 0.14 | 0.07 | -50.00 |
| Sarah Baartman | 0.43 | 0.29 | -33.33 | 0.14 | 0.14 | 0.00 |

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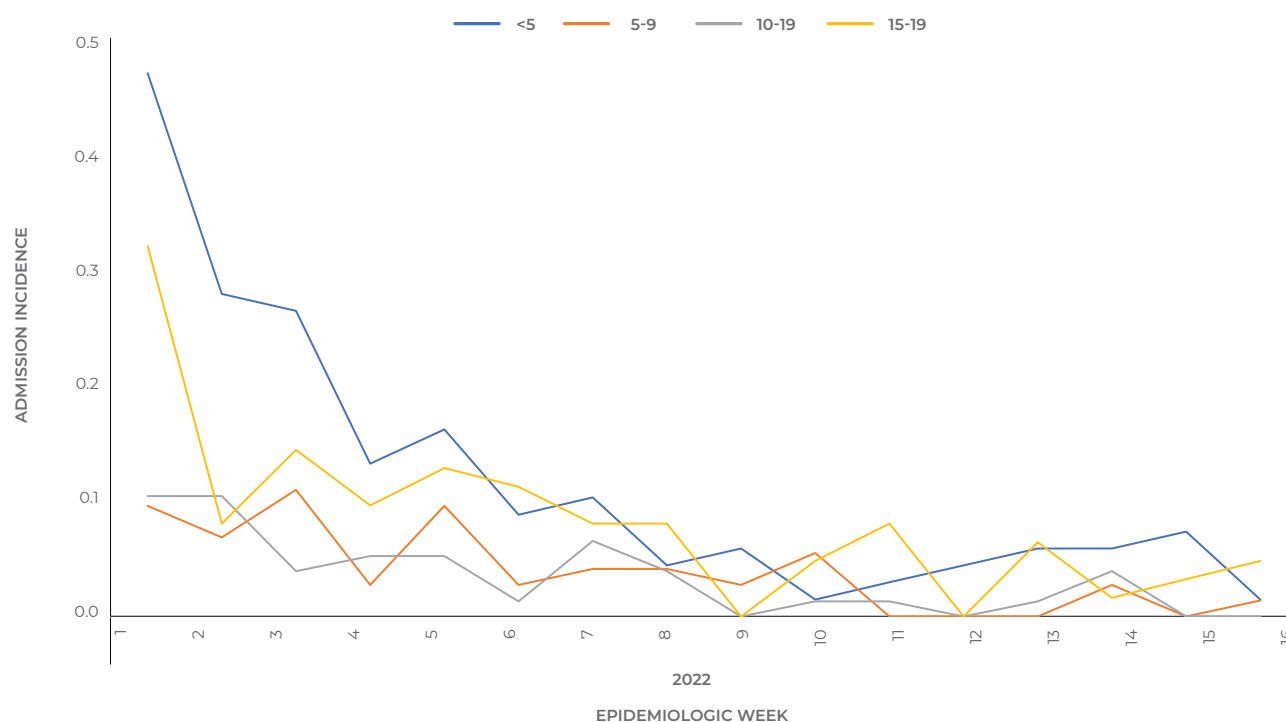


Figure 11a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Eastern Cape, week 1-16 2022

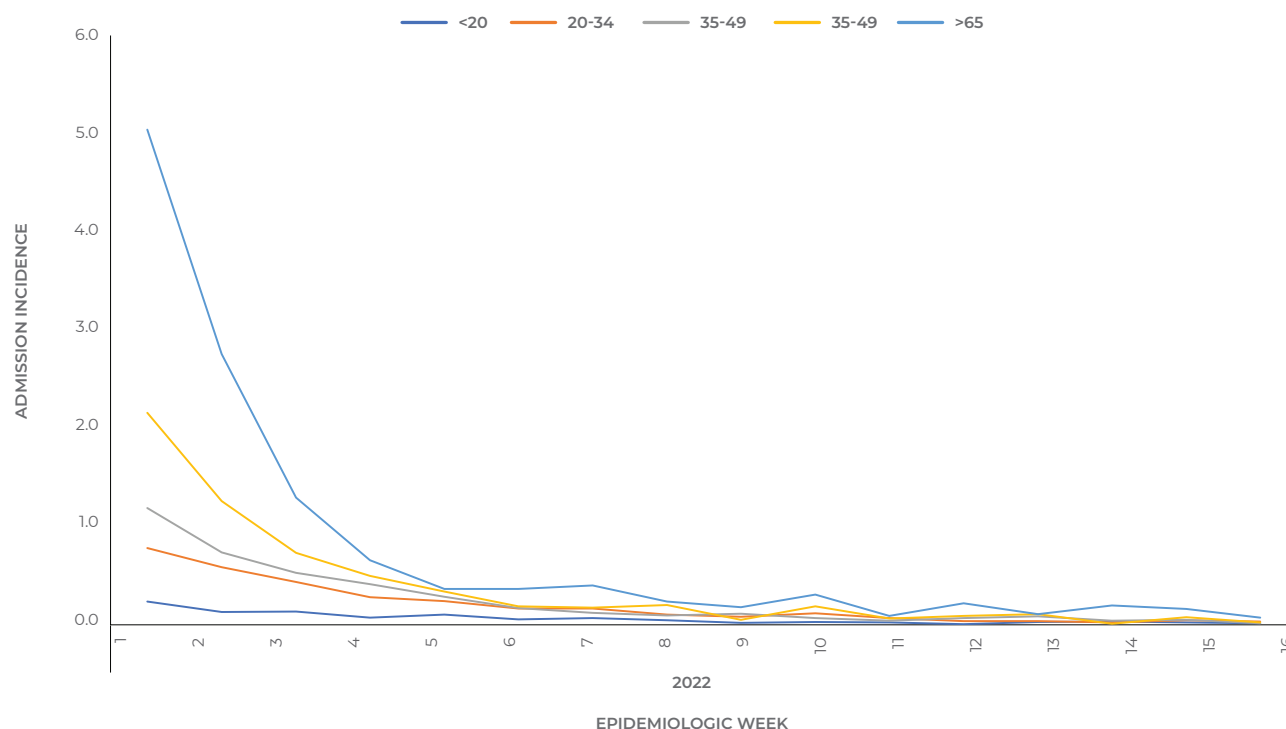


Figure 11b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Eastern Cape, week 1-16 2022

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FREE STATE

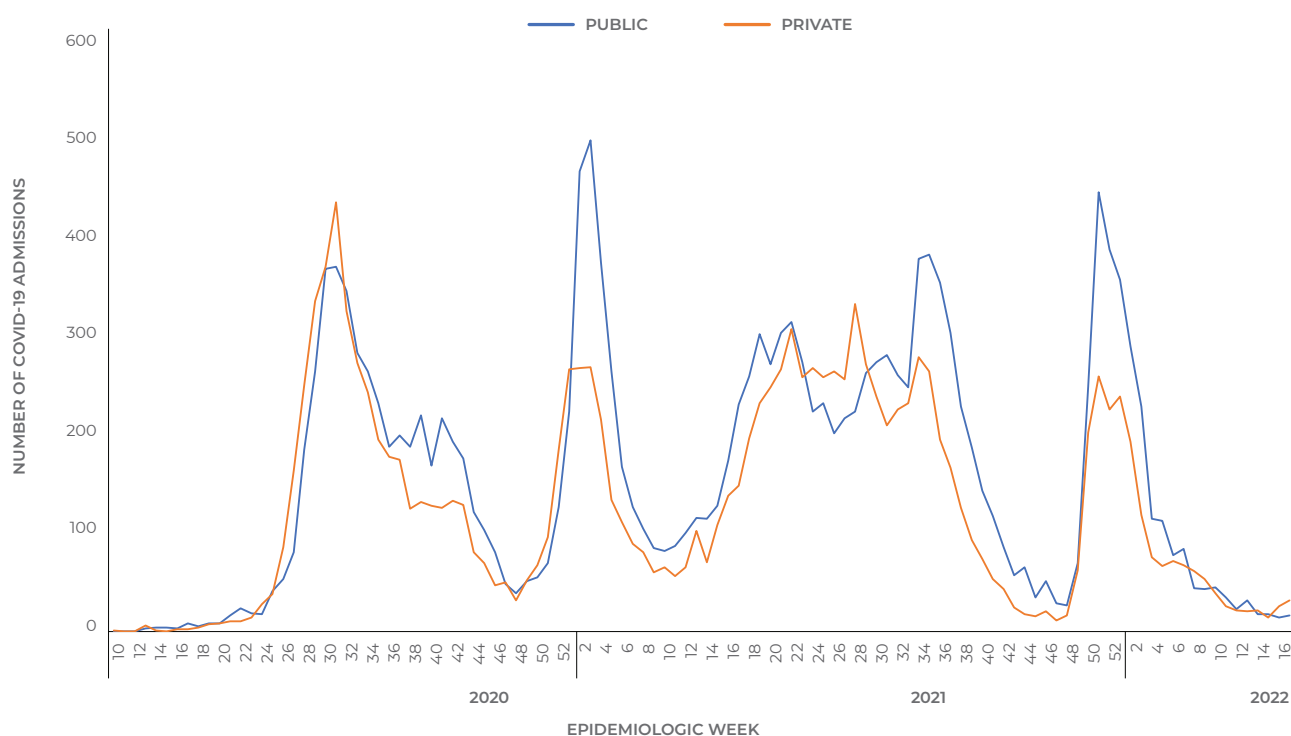


Figure 12. Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Free State, 5 March 2020-23 April 2022, N=31,026

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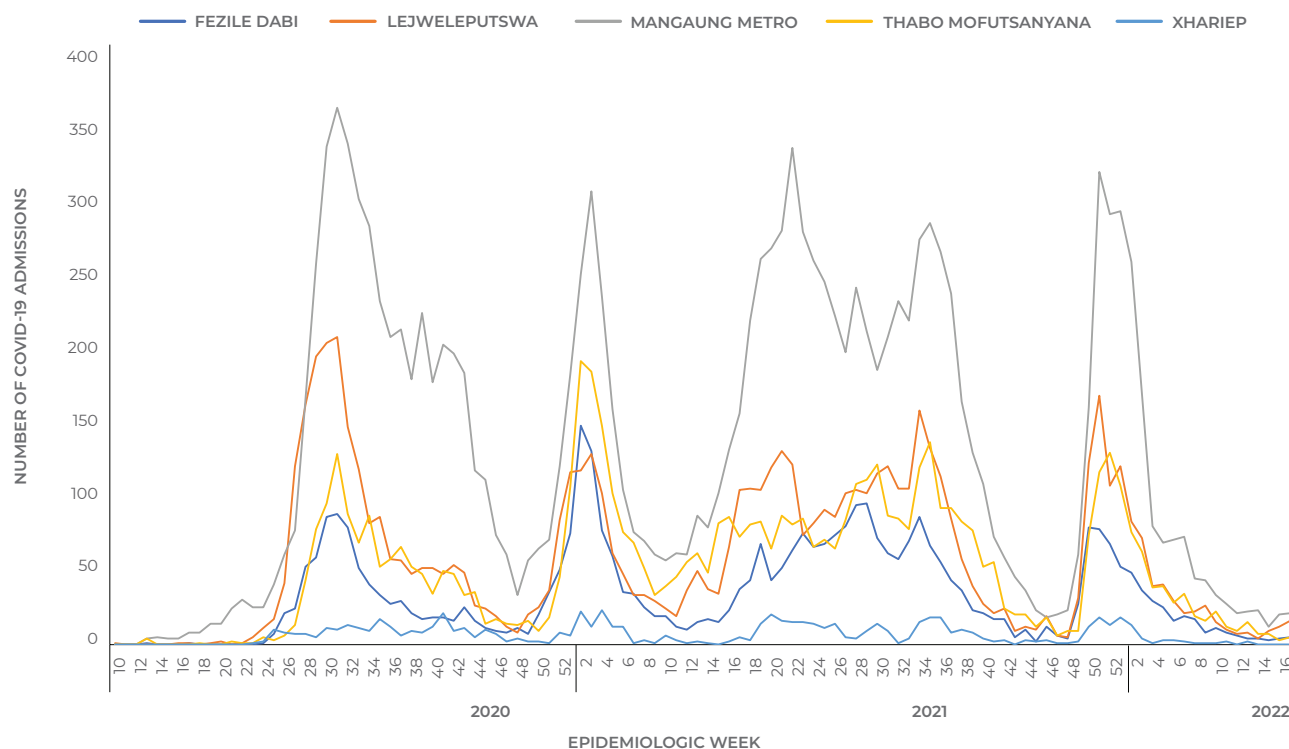


Figure 13: Number of reported COVID-19 admissions, by district and epidemiologic week, Free State, 5 March 2020-23 April 2022, N=31,026

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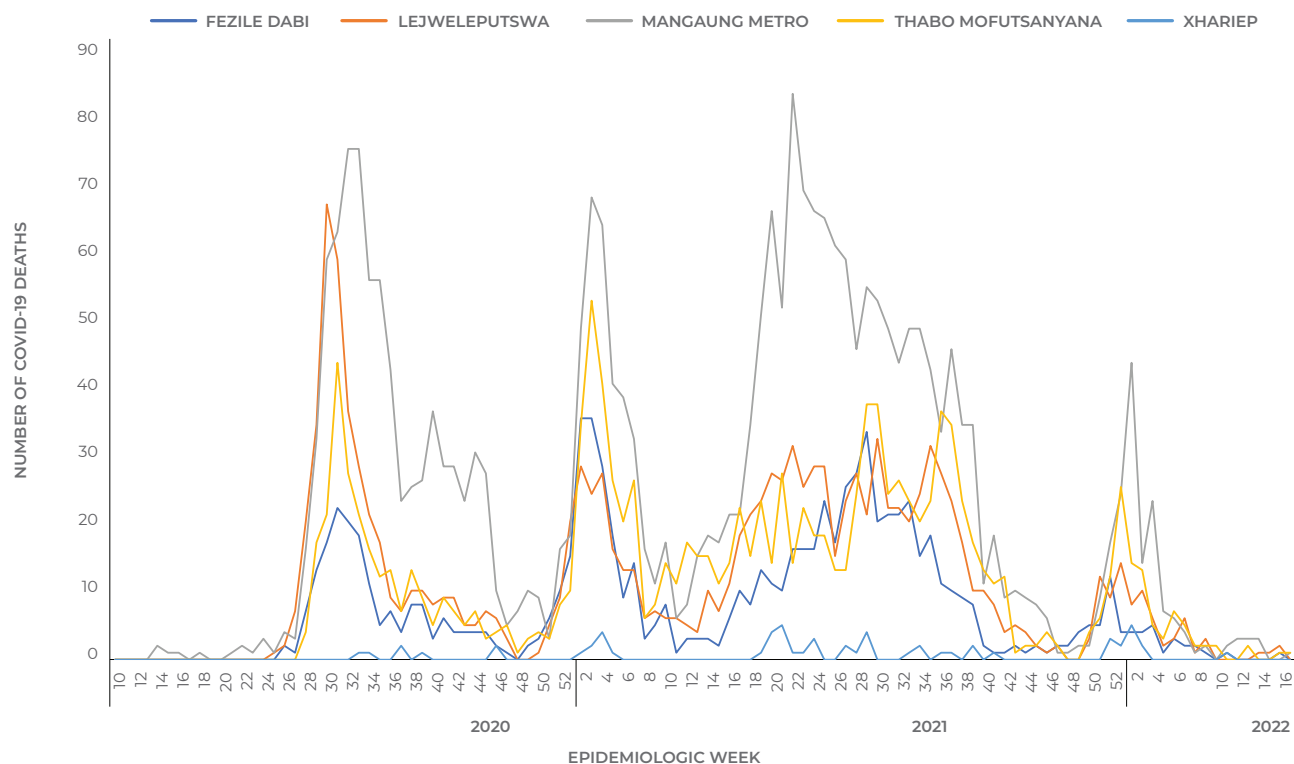


Figure 14: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Free State, 5 March 2020-23 April 2022, N=6,013

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Table 6: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 26 March-23 April 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 | 0.50 | 0.64 | 28.57 | 0.00 | 0.07 | 0.00 |
| Lejweleputswa | 0.93 | 2.00 | 115.38 | 0.14 | 0.14 | 0.00 |
| Mangaung Metro | 2.50 | 2.93 | 17.14 | 0.21 | 0.07 | -66.67 |
| Thabo Mofutsanyana | 1.00 | 0.57 | -42.86 | 0.00 | 0.14 | 0.00 |
| Xhariep | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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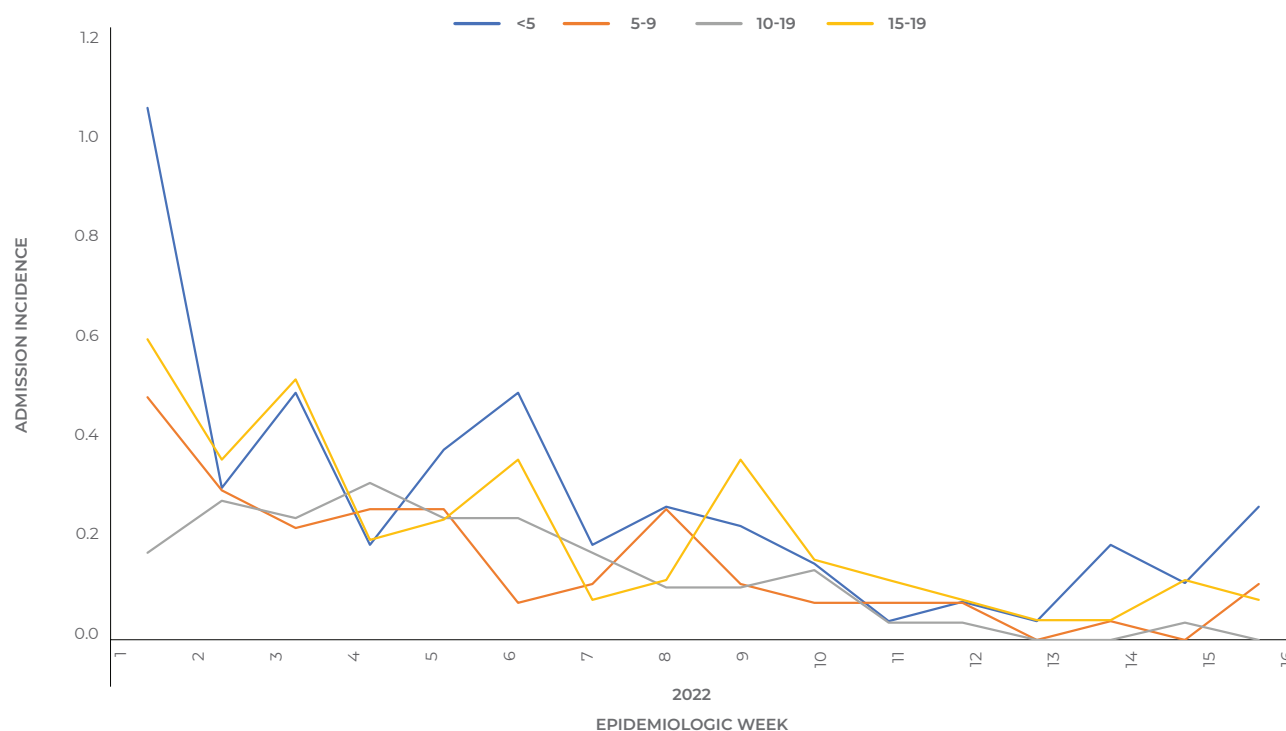


Figure 15a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Free State, week 1-16 2022

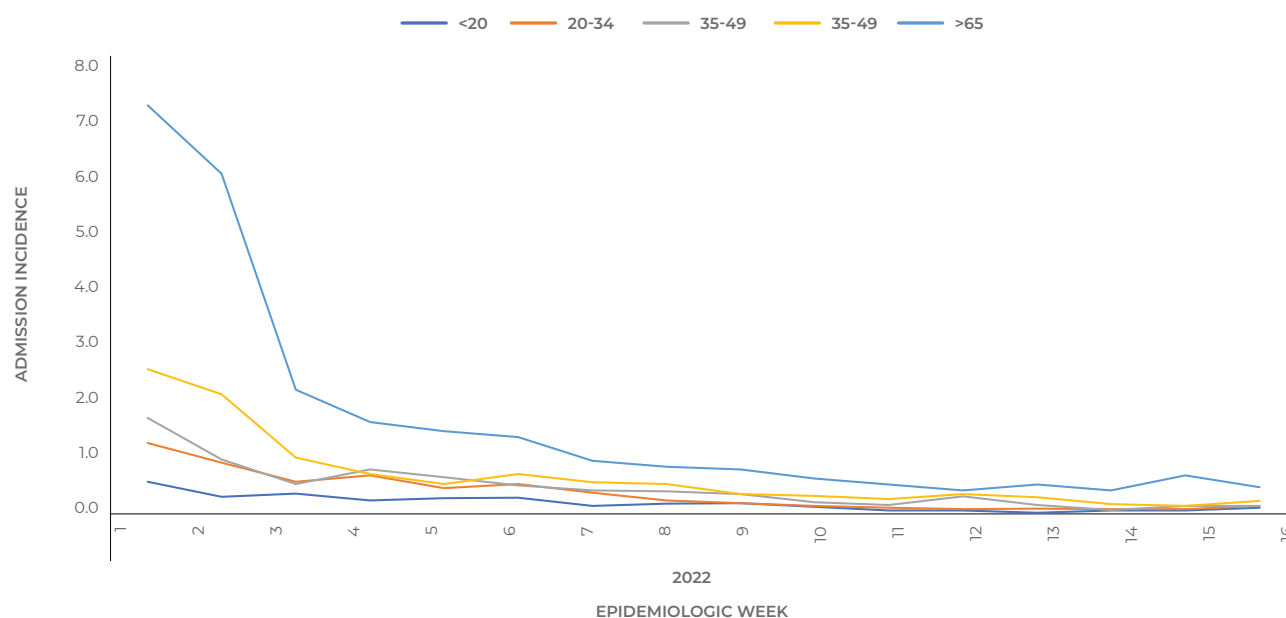


Figure 15b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Free State, week 1-16 2022,

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GAUTENG

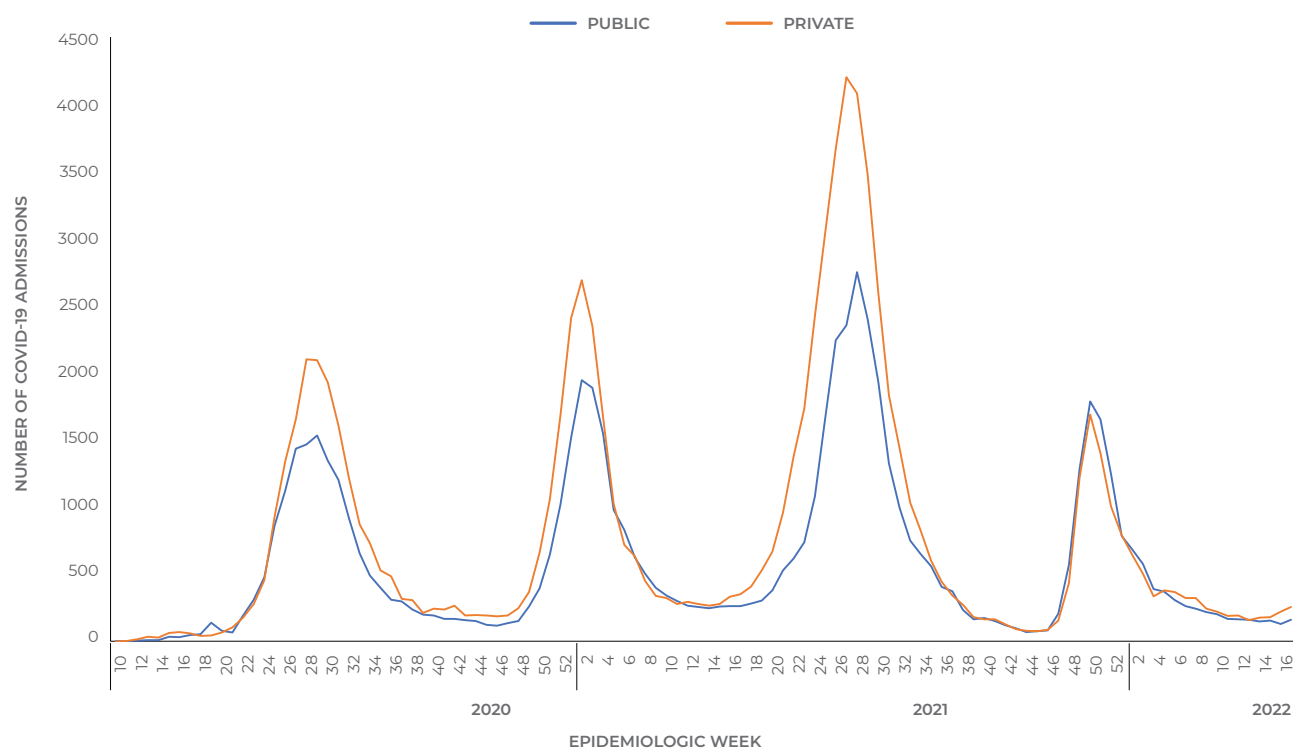


Figure 16: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Gauteng, 5 March 2020-23 April 2022, N=151,065

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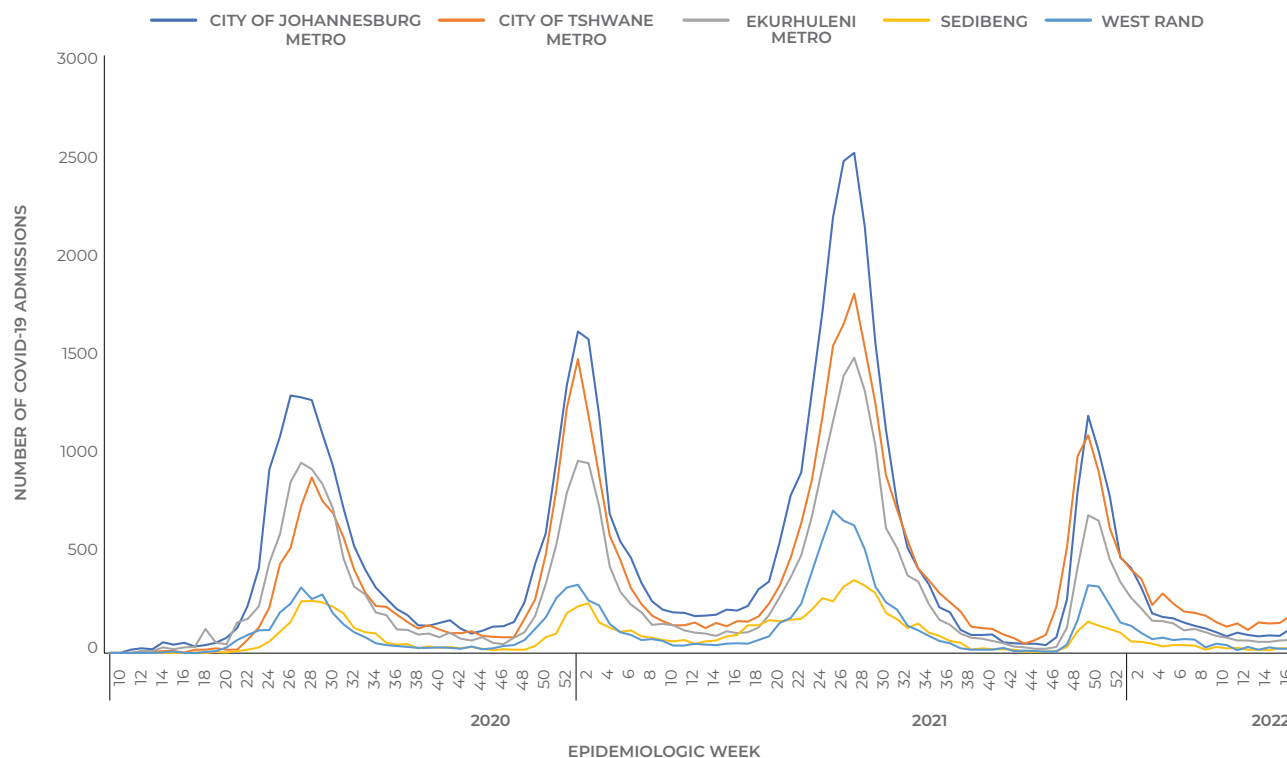


Figure 17: Number of reported COVID-19 admissions, by district and epidemiologic week, Gauteng, 5 March 2020-23 April 2022, N=151,065

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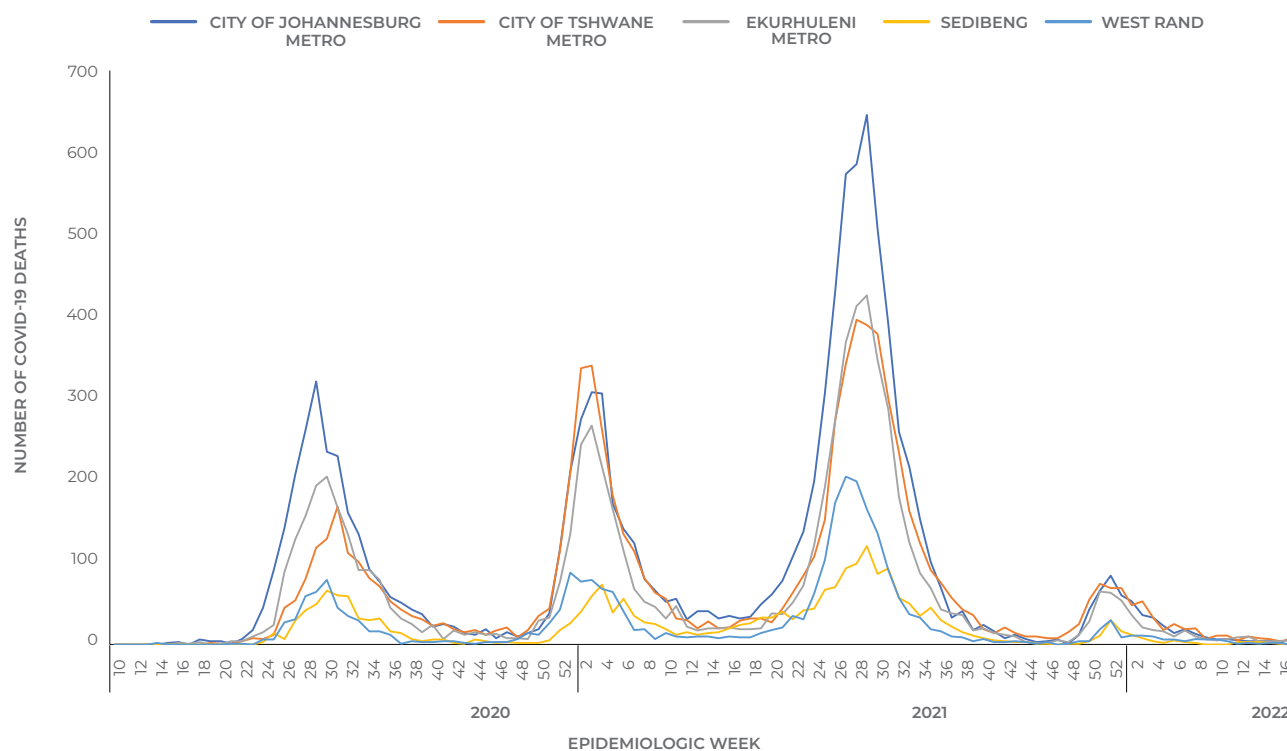


Figure 18: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Gauteng, 5 March 2020-23 April 2022, N=29,837

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Table 7: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 26 March-23 April 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 | 12.14 | 14.79 | 21.76 | 0.64 | 0.71 | 11.11 |
| City of Tshwane Metro | 21.43 | 24.00 | 12.00 | 1.07 | 0.71 | -33.33 |
| Ekurhuleni Metro | 8.07 | 9.21 | 14.16 | 0.57 | 0.64 | 12.50 |
| Sedibeng | 2.21 | 3.57 | 61.29 | 0.36 | 0.07 | -80.00 |
| West Rand | 3.29 | 3.00 | -8.70 | 0.21 | 0.14 | -33.33 |

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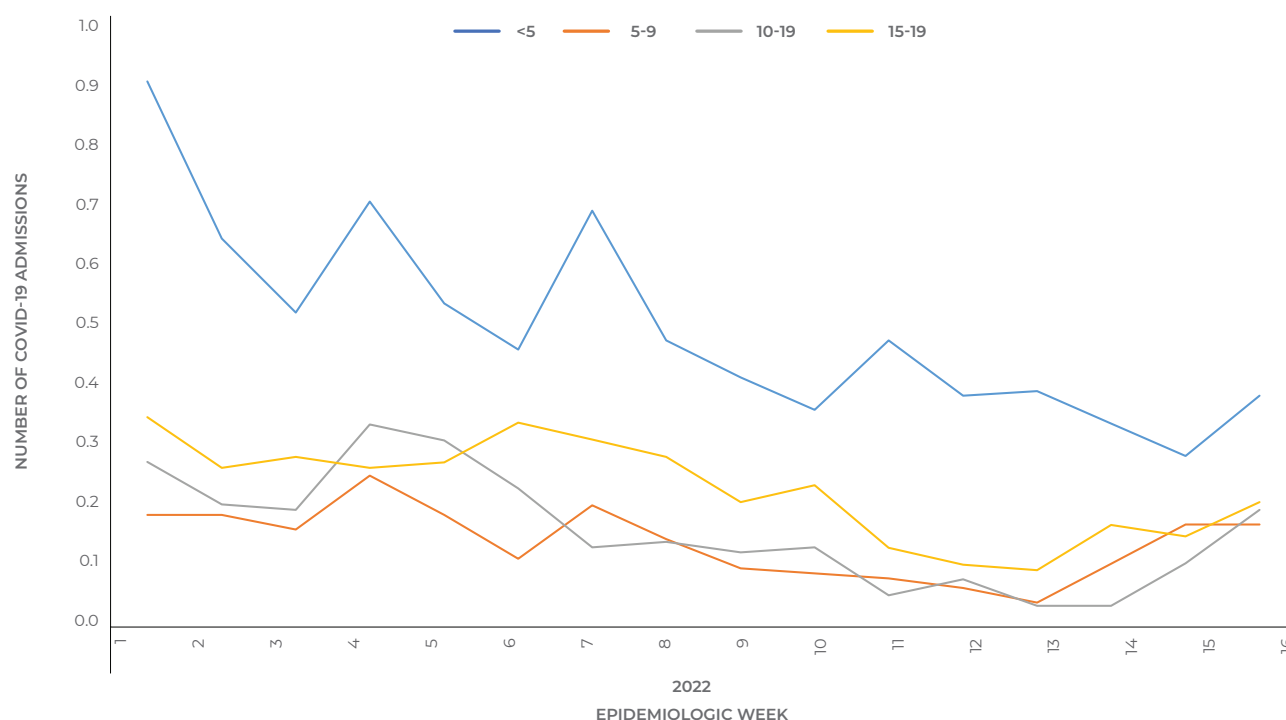


Figure 19a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Gauteng, week 1-16 2022

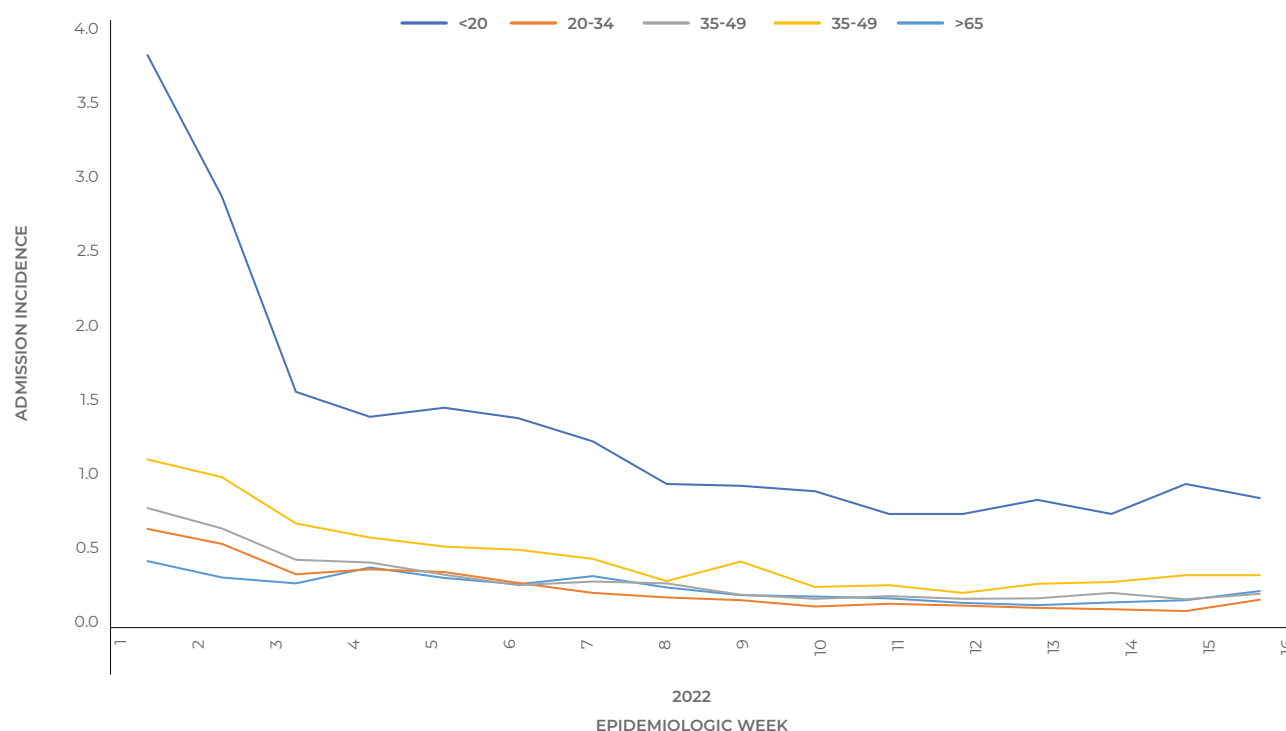


Figure 19b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Gauteng, week 1-16 2022

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KWAZULU-NATAL

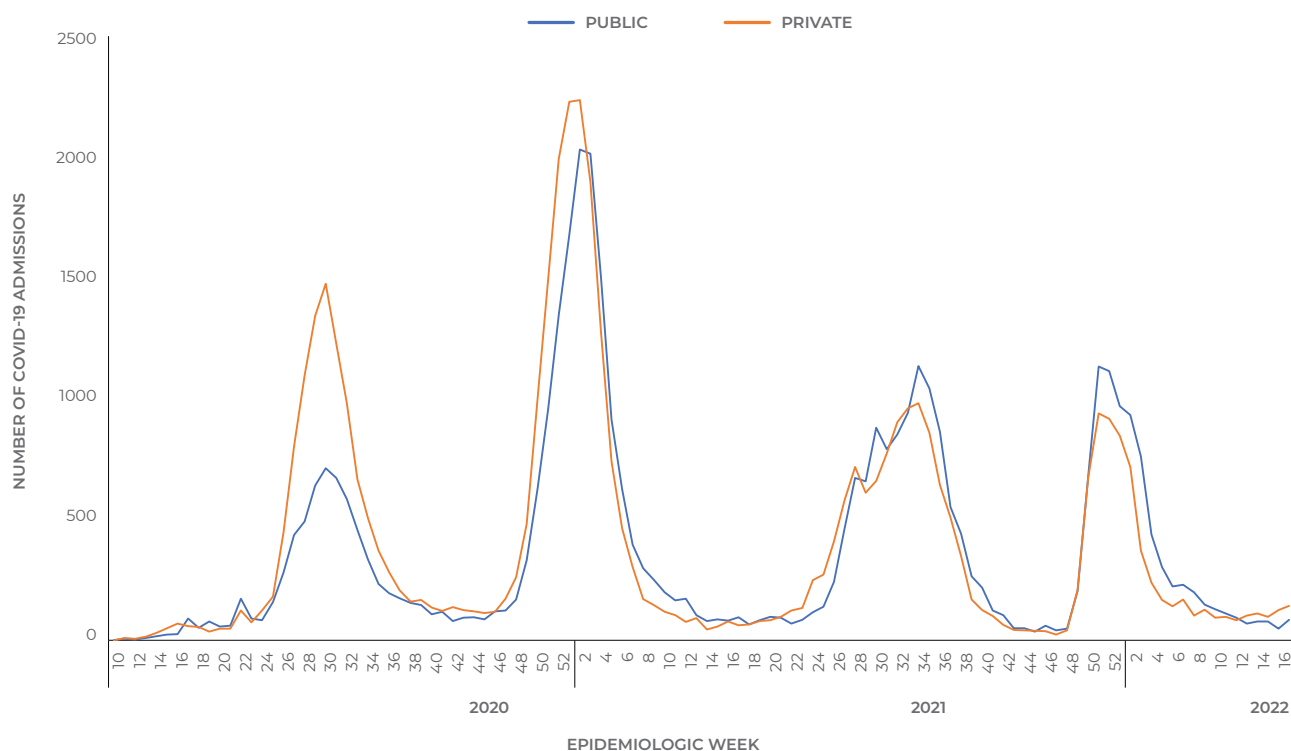


Figure 20: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, KwaZulu-Natal, 5 March 2020-23 April 2022, N=84,736

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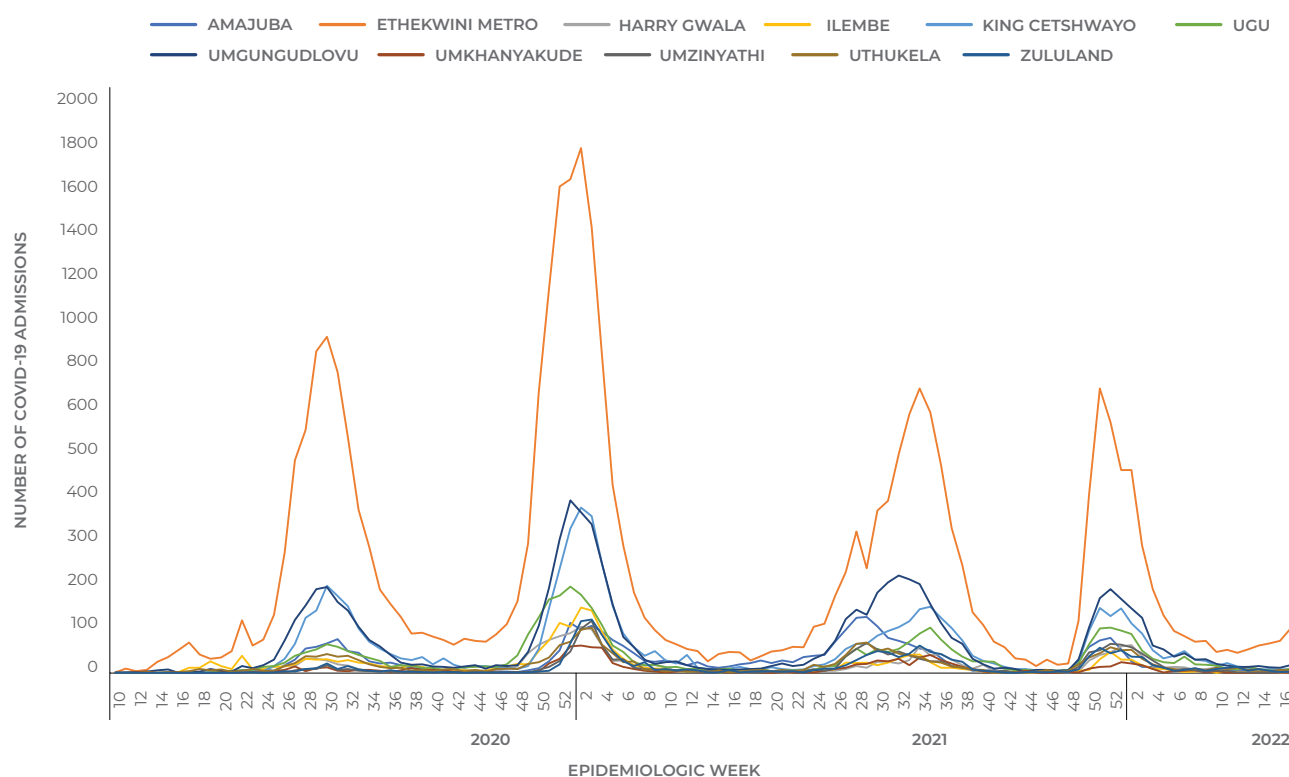


Figure 21: Number of reported COVID-19 admissions, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-23 April 2022, N=84,736

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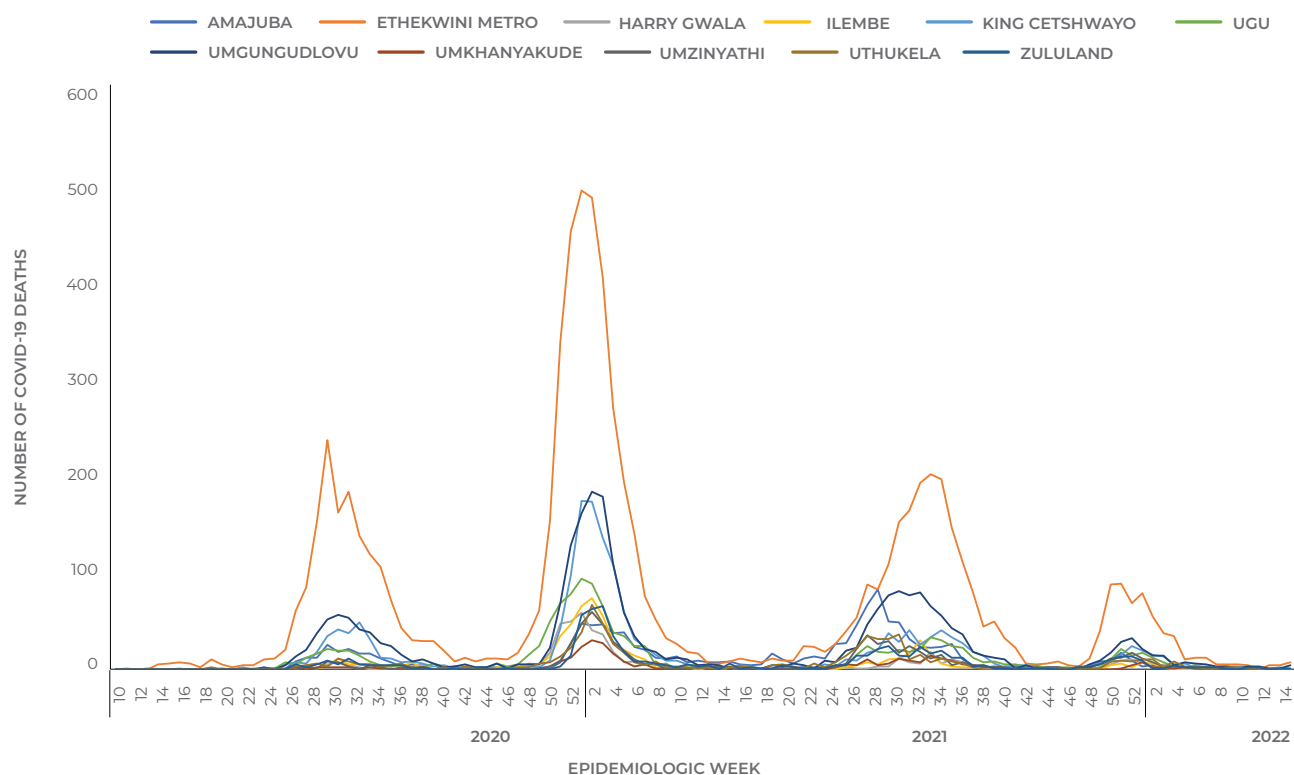


Figure 22: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, KwaZulu-Natal, 5 March 2020-23 April 2022, N=17,193

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Table 8: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, KwaZulu-Natal, 26 March-23 April 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 | 0.93 | -23.53 | 0.07 | 0.00 | -100.00 |
| eThekweni Metro | 13.93 | 18.57 | 33.33 | 0.29 | 0.79 | 175.00 |
| Harry Gwala | 0.43 | 0.07 | -83.33 | 0.00 | 0.07 | 0.00 |
| iLembe | 1.00 | 0.36 | -64.29 | 0.00 | 0.00 | 0.00 |
| King Cetshwayo | 1.71 | 1.79 | 4.17 | 0.07 | 0.21 | 200.00 |
| Ugu | 1.57 | 1.50 | -4.55 | 0.07 | 0.00 | -100.00 |
| uMgungundlovu | 3.00 | 3.14 | 4.76 | 0.29 | 0.36 | 25.00 |
| uMkhanyakude | 0.21 | 0.14 | -33.33 | 0.00 | 0.00 | 0.00 |
| Umzinyathi | 0.21 | 0.43 | 100.00 | 0.07 | 0.00 | -100.00 |
| UThukela | 1.29 | 1.36 | 5.56 | 0.00 | 0.00 | 0.00 |
| Zululand | 1.50 | 0.50 | -66.67 | 0.14 | 0.14 | 0.00 |

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WEEK 16 2022

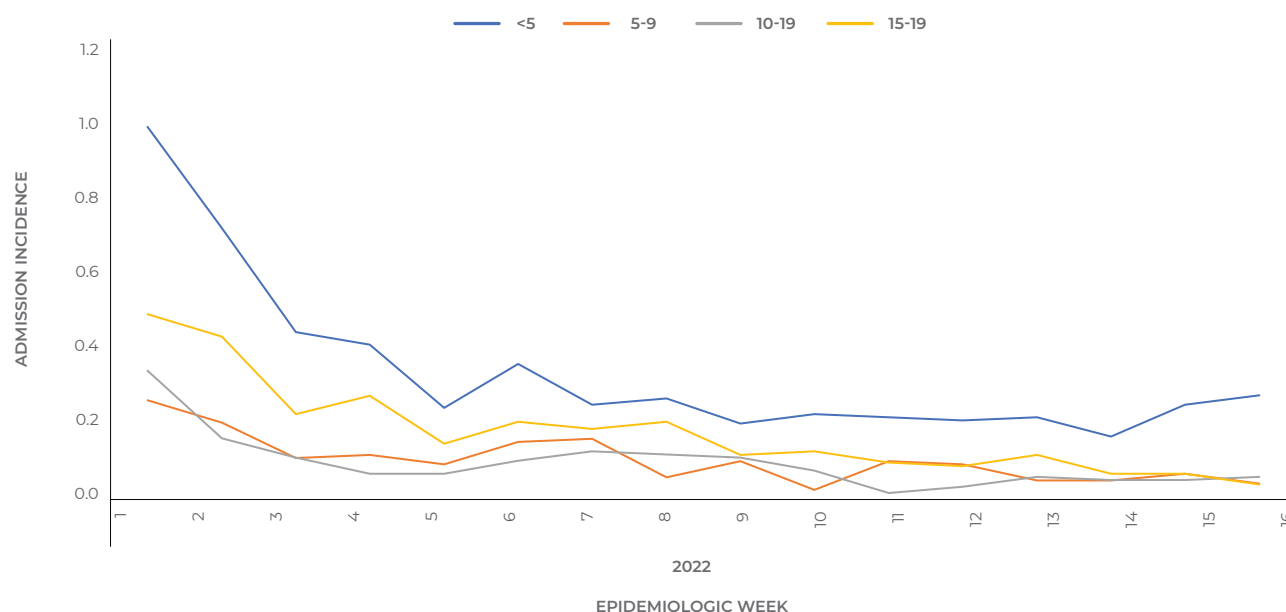


Figure 23a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-16 2022

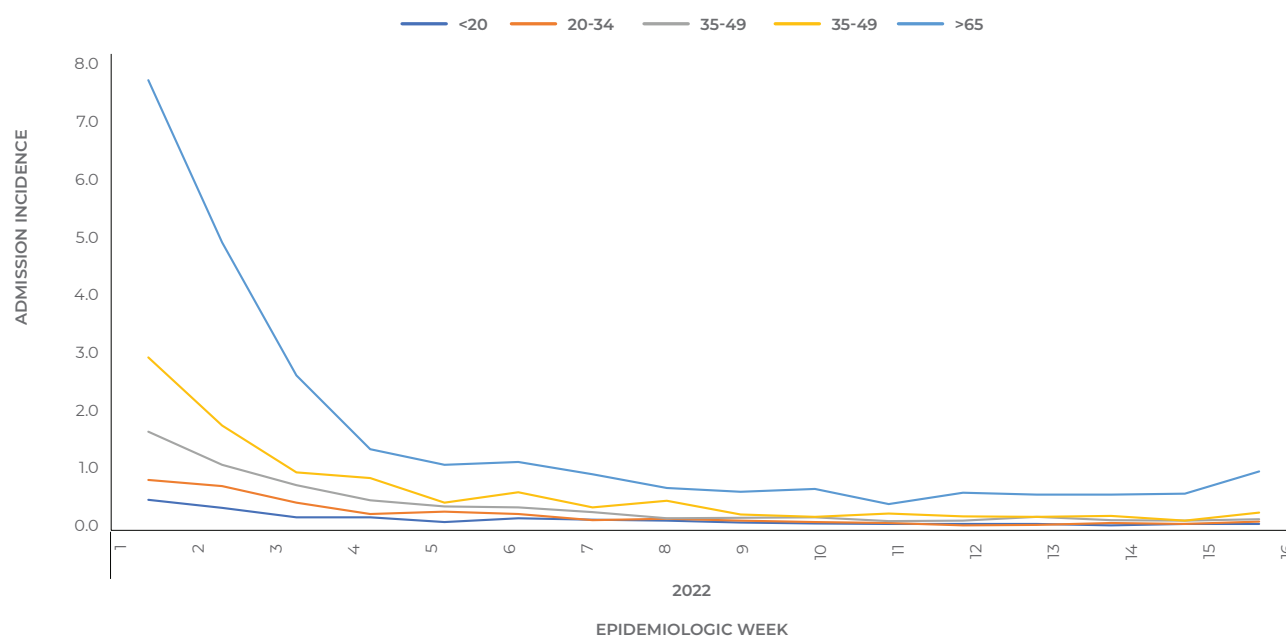


Figure 23b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, KwaZulu-Natal, week 1-16 2022

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

LIMPOPO

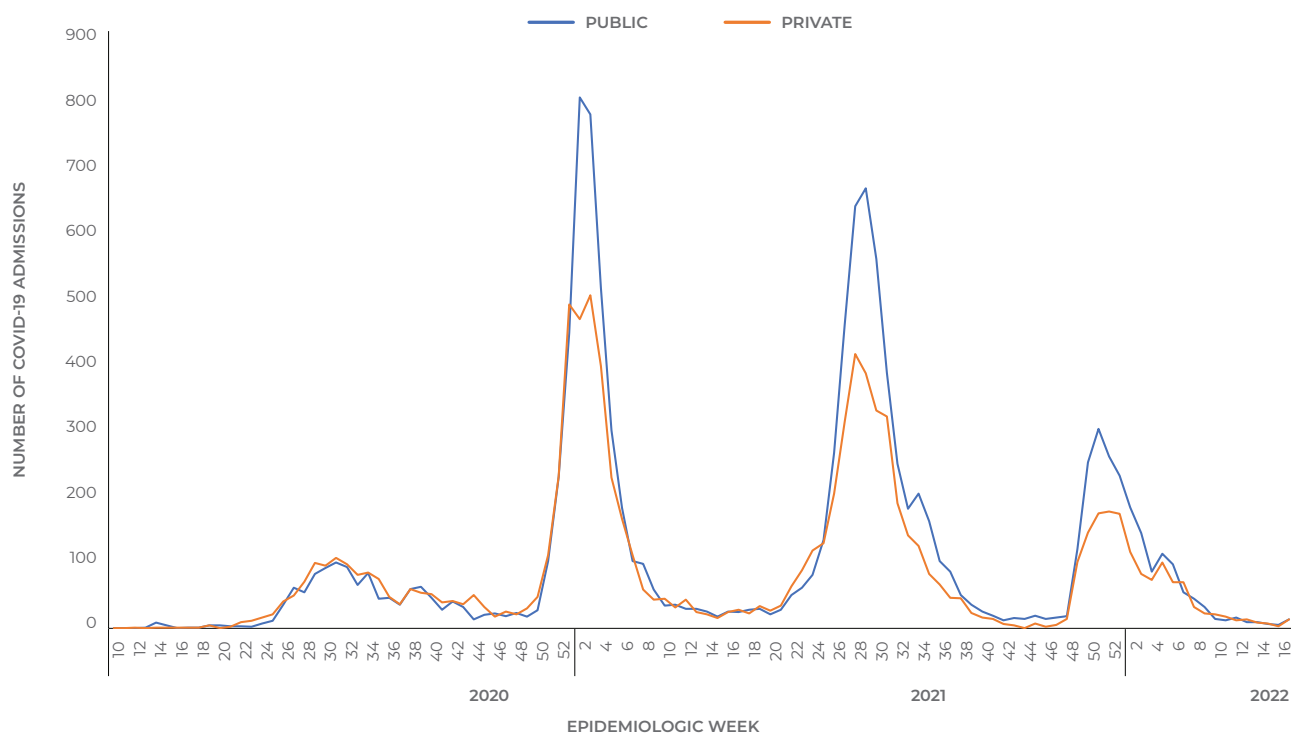


Figure 24: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Limpopo, 5 March 2020-23 April 2022, N=20,770

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

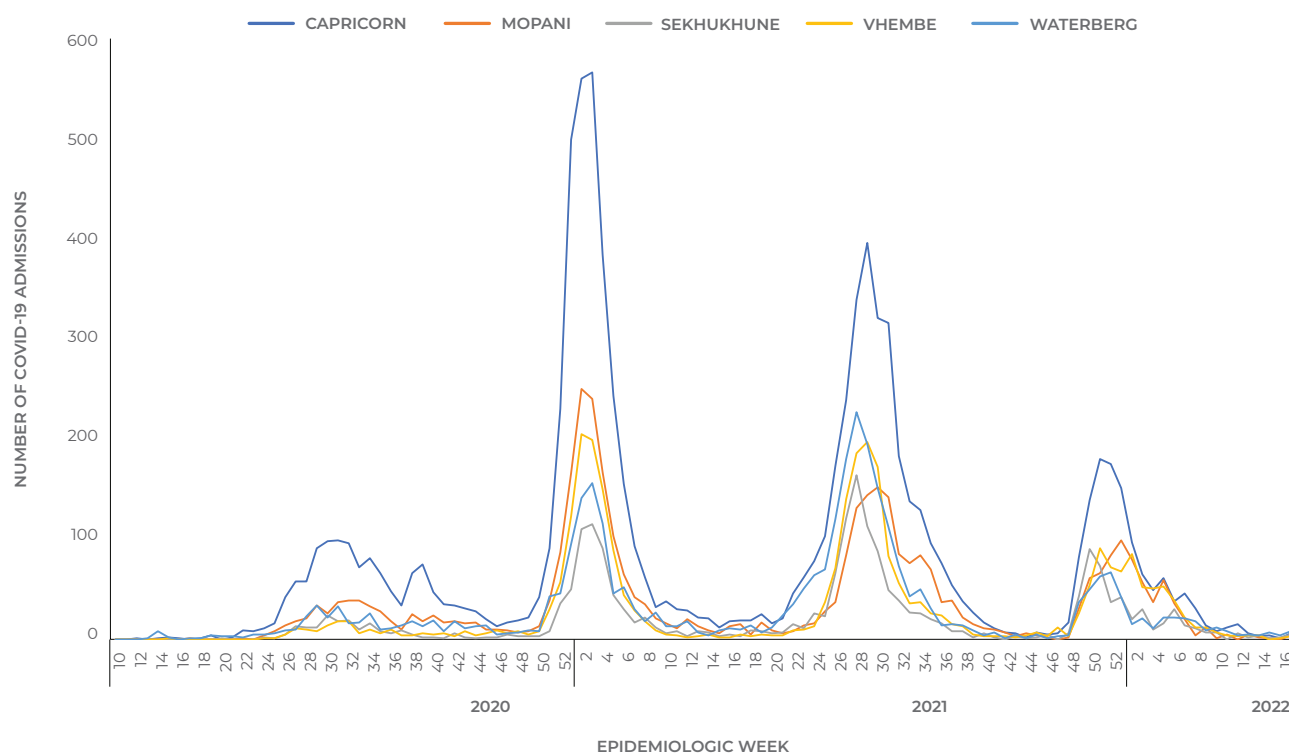


Figure 25: Number of reported COVID-19 admissions, by district and epidemiologic week, Limpopo, 5 March 2020-23 April 2022, N=20,770

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

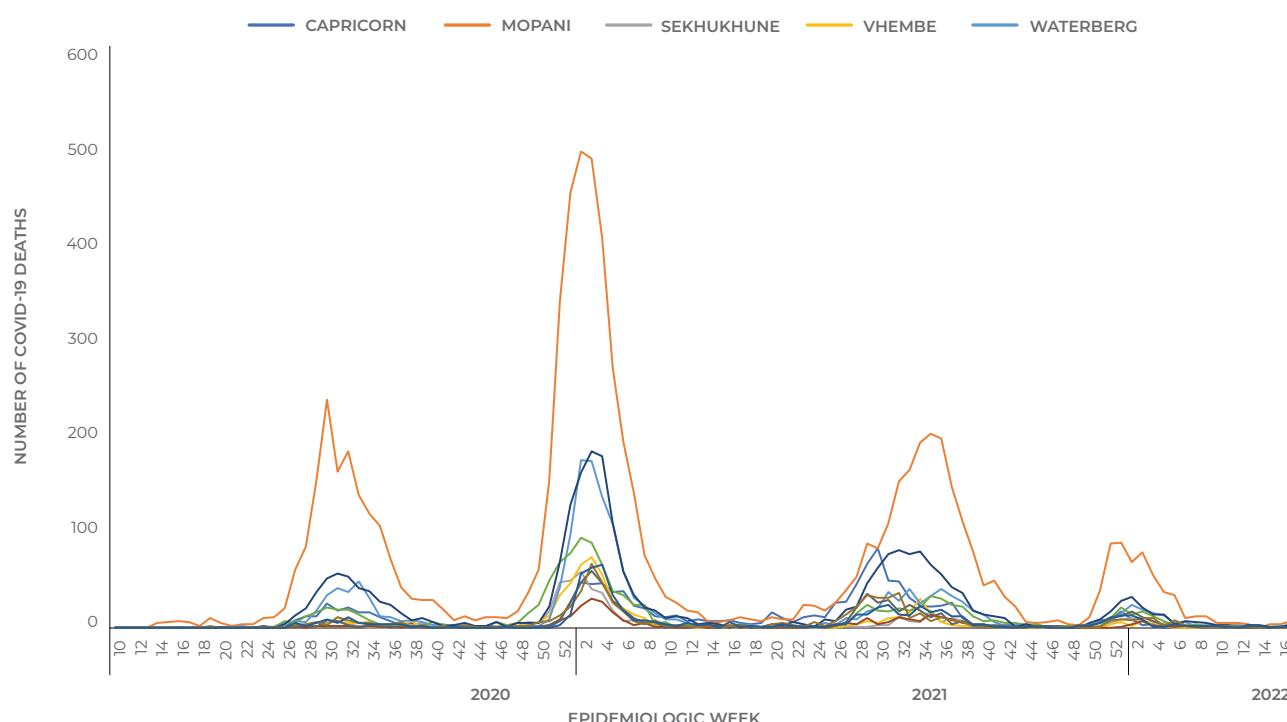


Figure 26: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Limpopo, 5 March 2020-23 April 2022, N=5,309

Table 9: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 26 March-23 April 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 | 0.50 | 0.50 | 0.00 | 0.00 | 0.07 | 0.00 |
| Mopani | 0.21 | 0.29 | 33.33 | 0.07 | 0.00 | -100.00 |
| Sekhukhune | 0.36 | 0.50 | 40.00 | 0.00 | 0.21 | 0.00 |
| Vhembe | 0.29 | 0.29 | 0.00 | 0.14 | 0.07 | -50.00 |
| Waterberg | 0.79 | 0.86 | 9.09 | 0.00 | 0.00 | 0.00 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

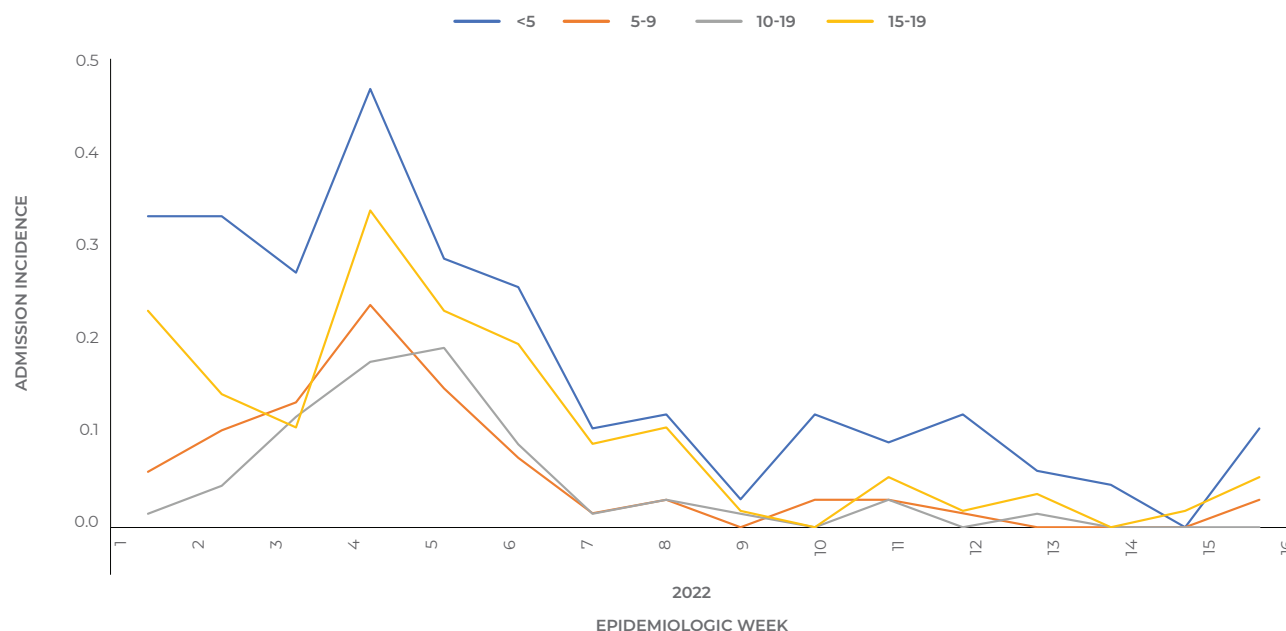


Figure 27a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Limpopo, week 1-16 2022

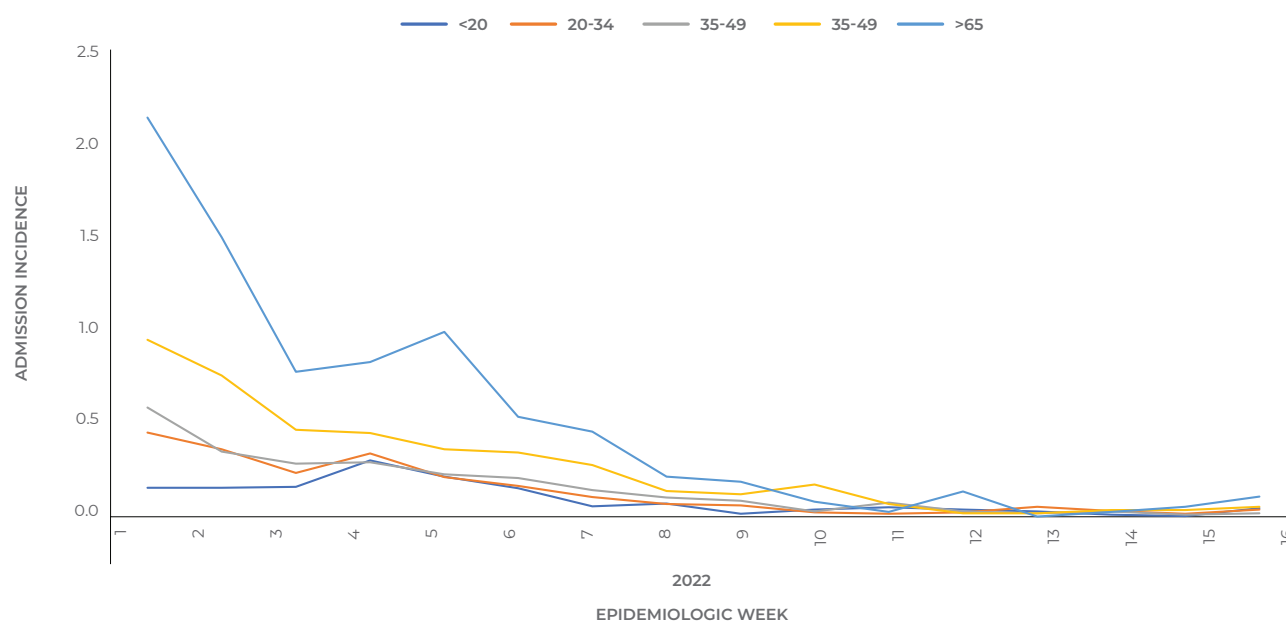


Figure 27b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Limpopo, week 1-16 2022

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

MPUMALANGA

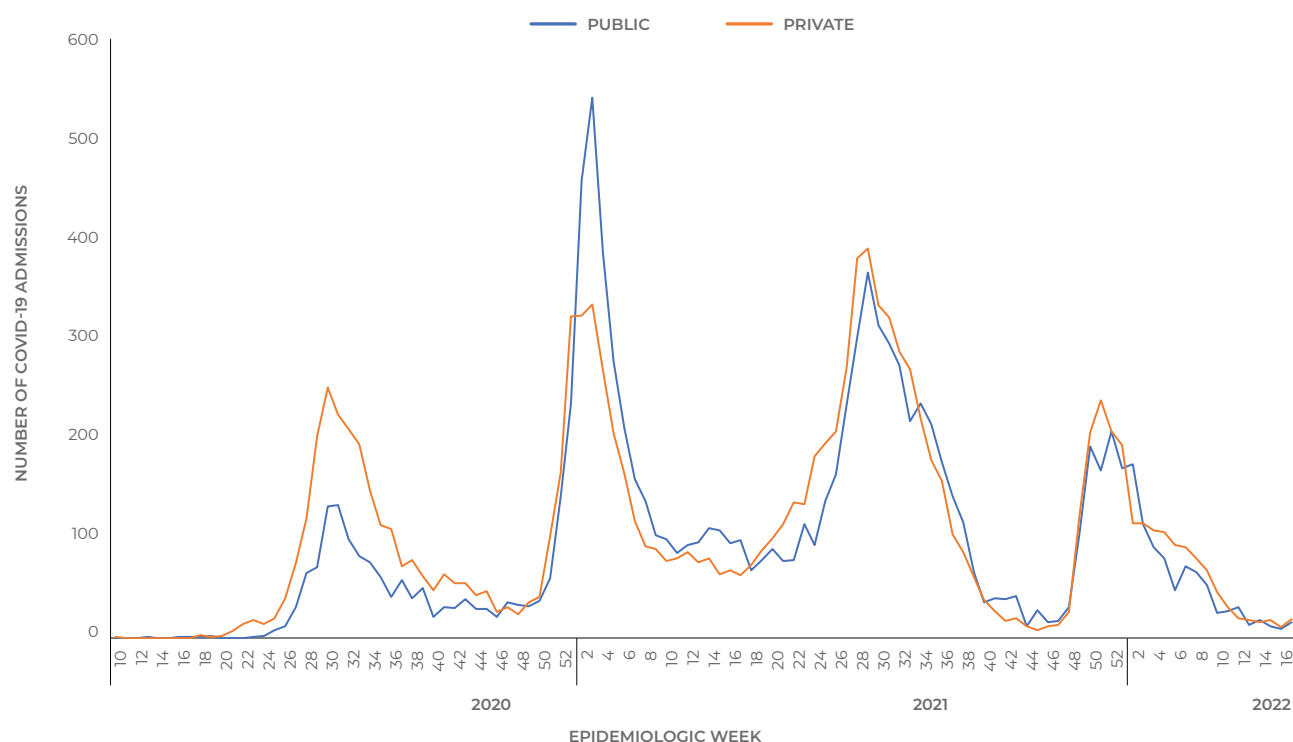


Figure 28: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Mpumalanga, 5 March 2020-23 April 2022, N=22,169

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

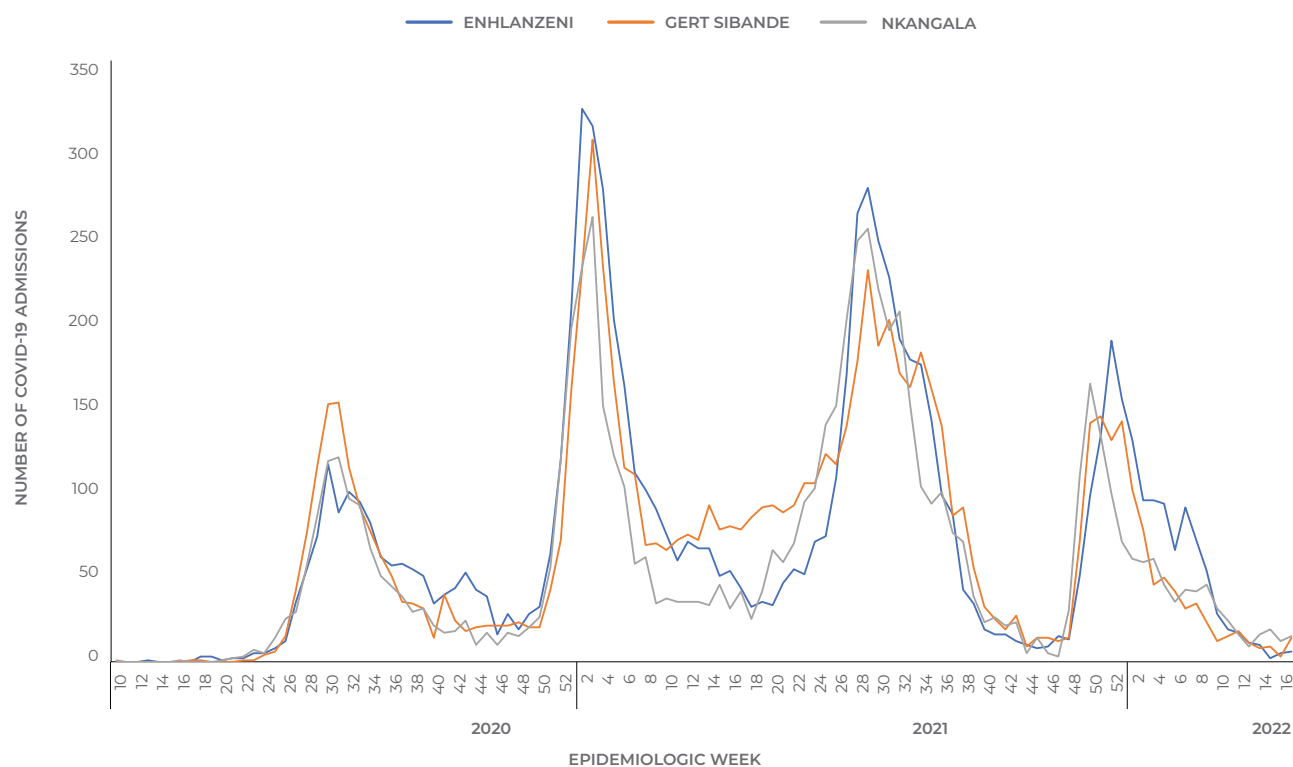


Figure 29: Number of reported COVID-19 admissions, by district and epidemiologic week, Mpumalanga, 5 March 2020-23 April 2022, N=22,169

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

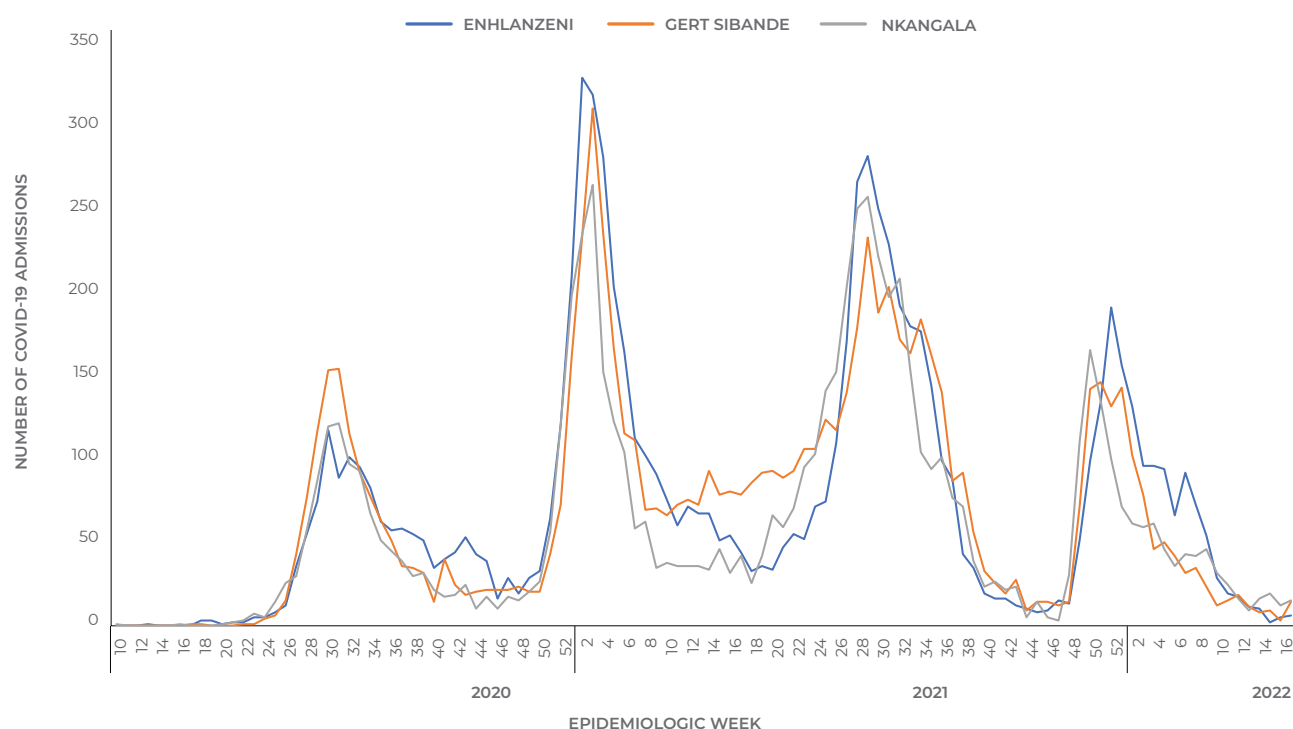


Figure 30: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Mpumalanga, 5 March 2020-23 April 2022, N=4,820

Table 10: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 26 March-23 April 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 | 0.79 | -8.33 | 0.14 | 0.07 | -50.00 |
| Gert Sibande | 1.21 | 1.21 | 0.00 | 0.07 | 0.00 | -100.00 |
| Nkangala | 2.50 | 1.93 | -22.86 | 0.21 | 0.14 | -33.33 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

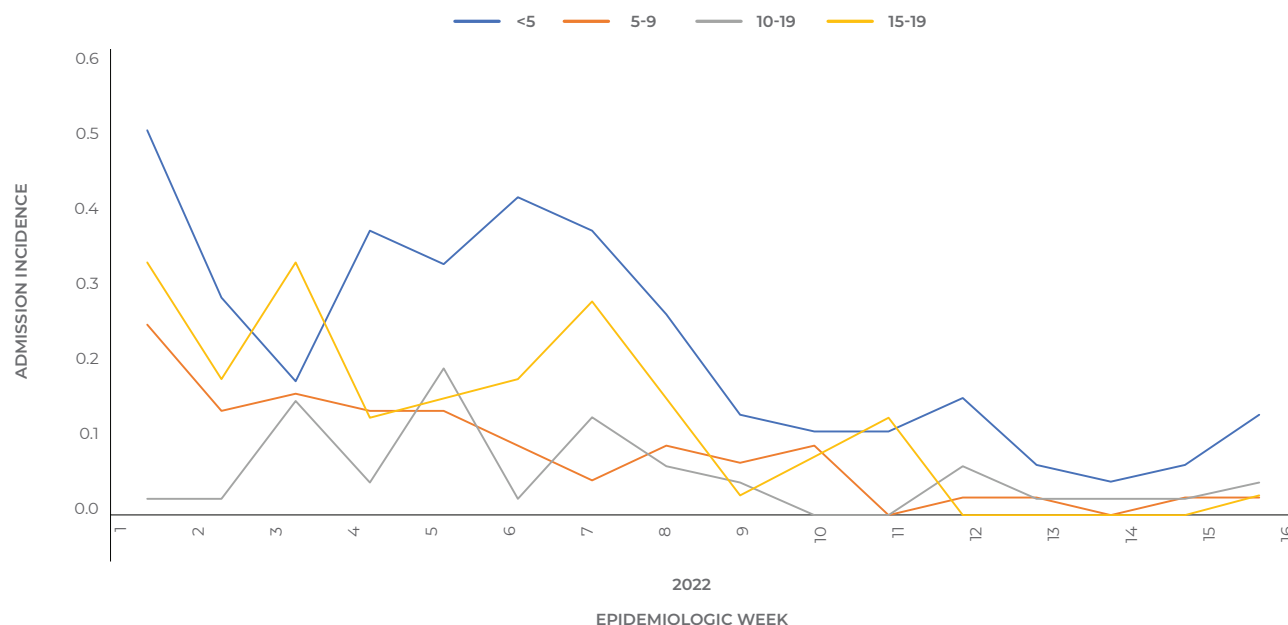


Figure 31a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Mpumalanga, week 1-16 2022

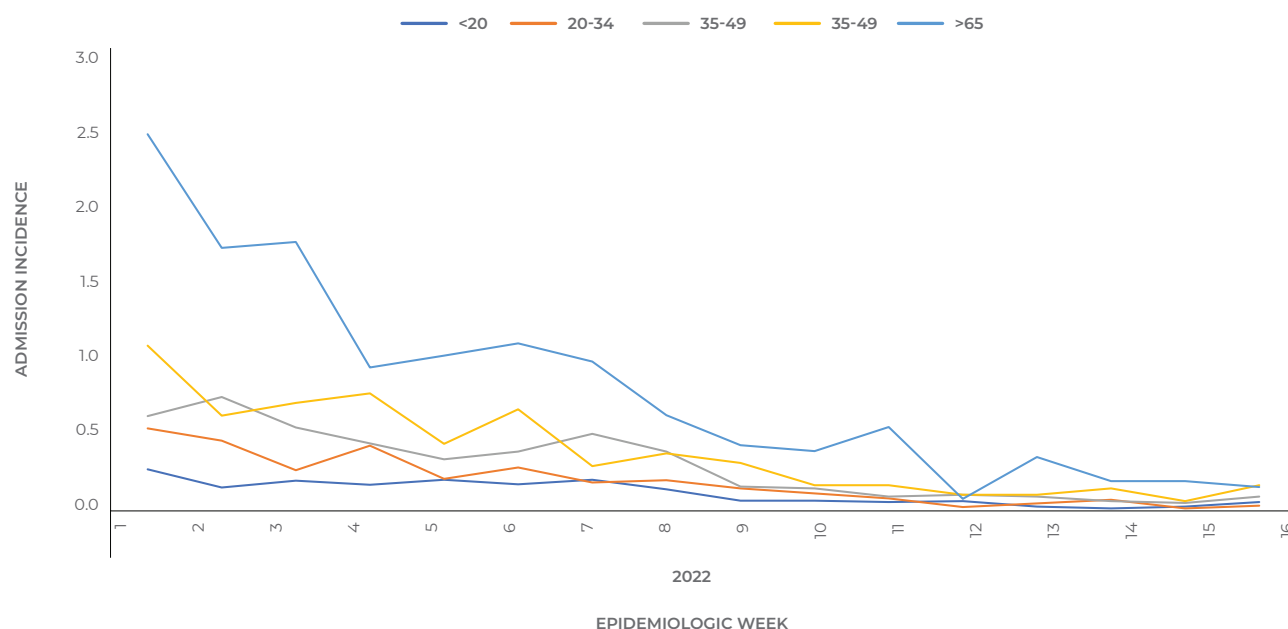


Figure 31b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Mpumalanga, week 1-16 2022

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

NORTH WEST

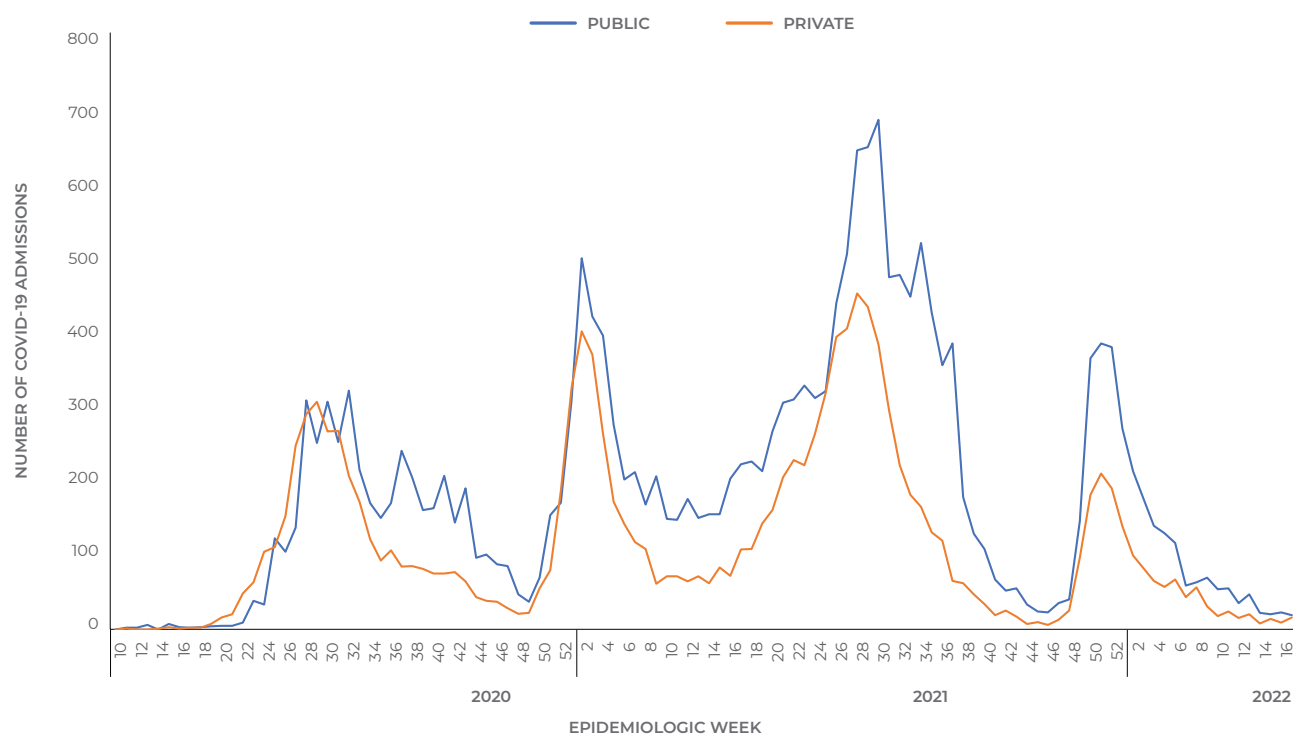


Figure 32: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, North West, 5 March 2020-23 April 2022, N=33,294

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

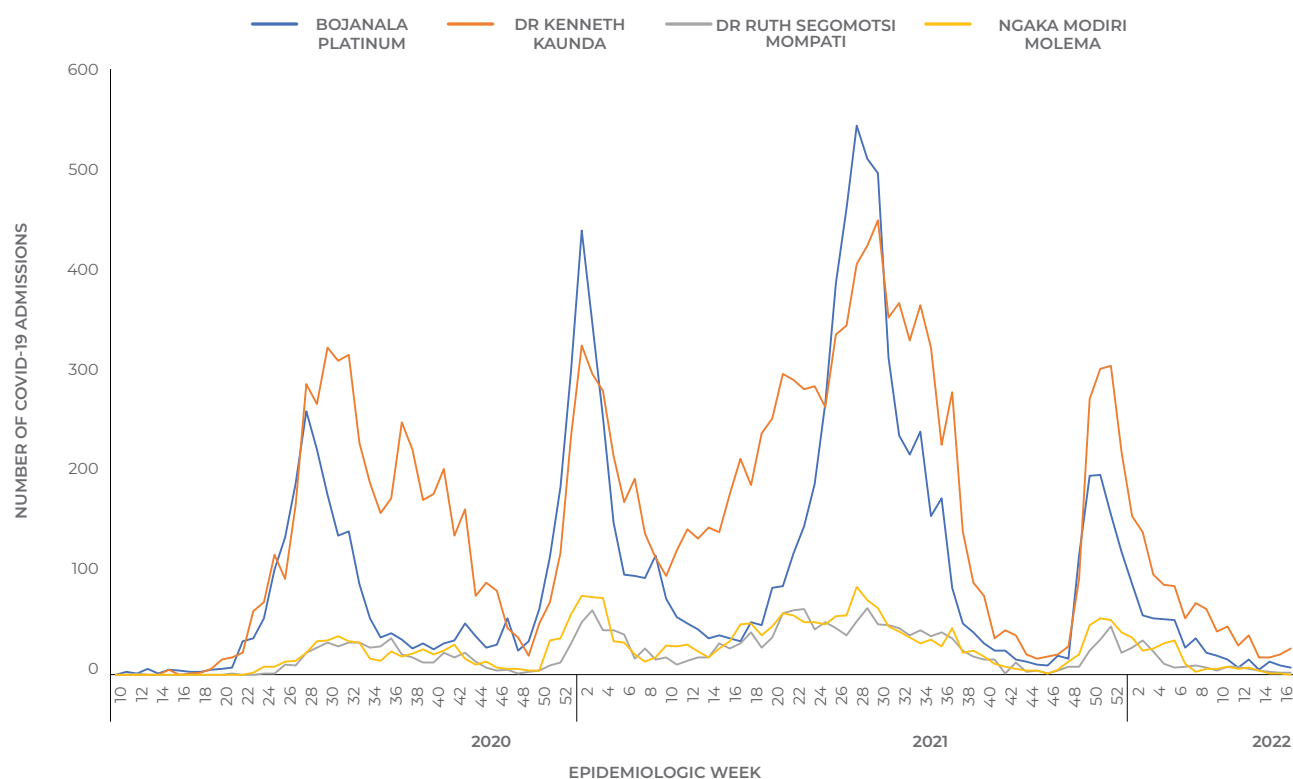


Figure 33. Number of reported COVID-19 admissions, by district and epidemiologic week, North West, 5 March 2020-23 April 2022, N=33,294

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

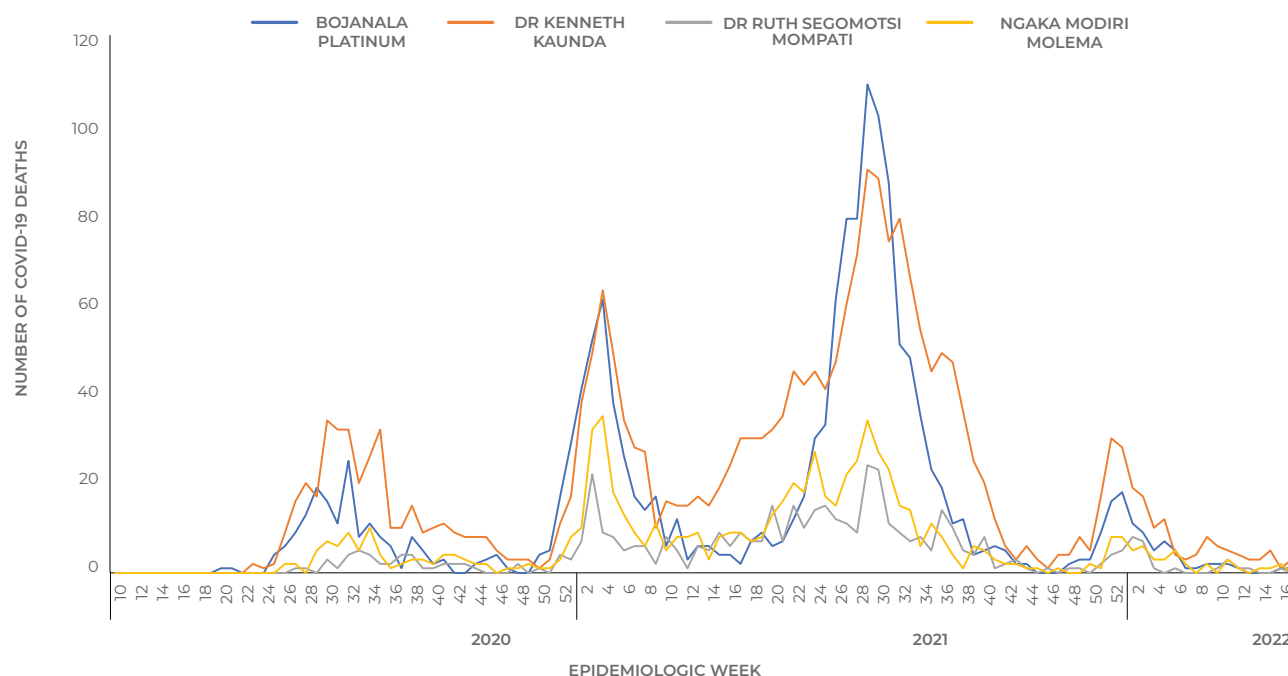


Figure 34: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, North West, 5 March 2020-23 April 2022, N=4,862

Table 11: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 26 March-23 April 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 | 1.29 | 1.14 | -11.11 | 0.00 | 0.14 | 0.00 |
| Dr Kenneth Kaunda | 2.43 | 3.29 | 35.29 | 0.57 | 0.29 | -50.00 |
| Dr Ruth Segomotsi Mompoti | 0.50 | 0.29 | -42.86 | 0.00 | 0.07 | 0.00 |
| Ngaka Modiri Molema | 0.36 | 0.07 | -80.00 | 0.14 | 0.14 | 0.00 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

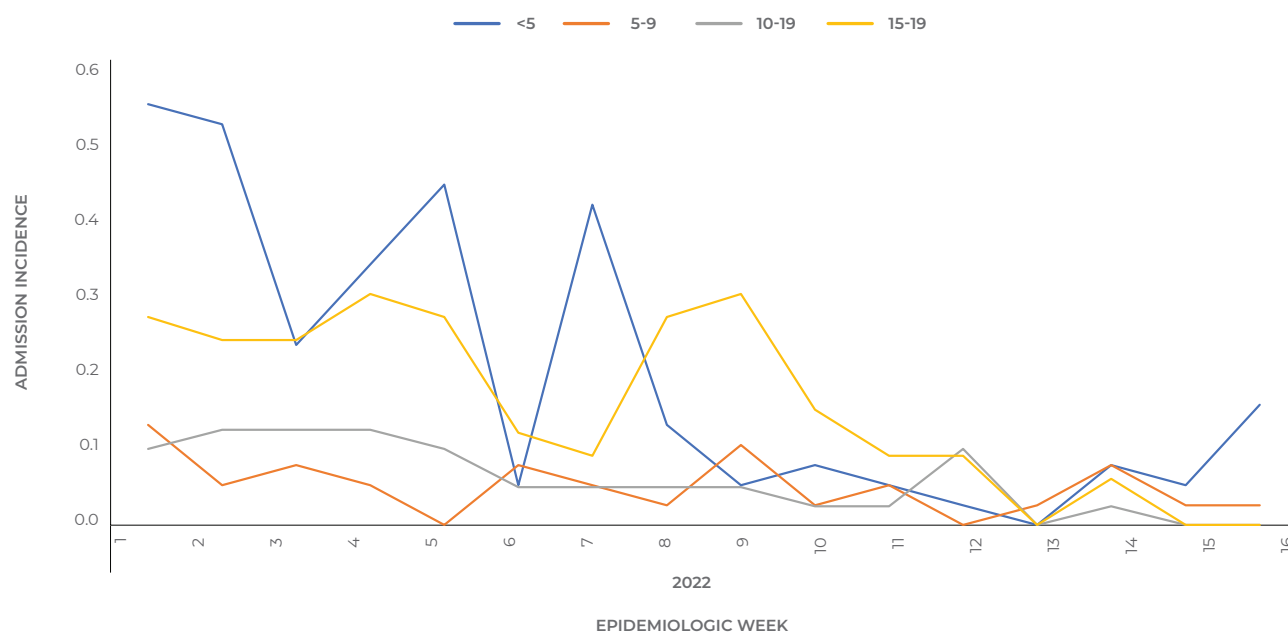


Figure 35a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, North West, week 1-16 2022

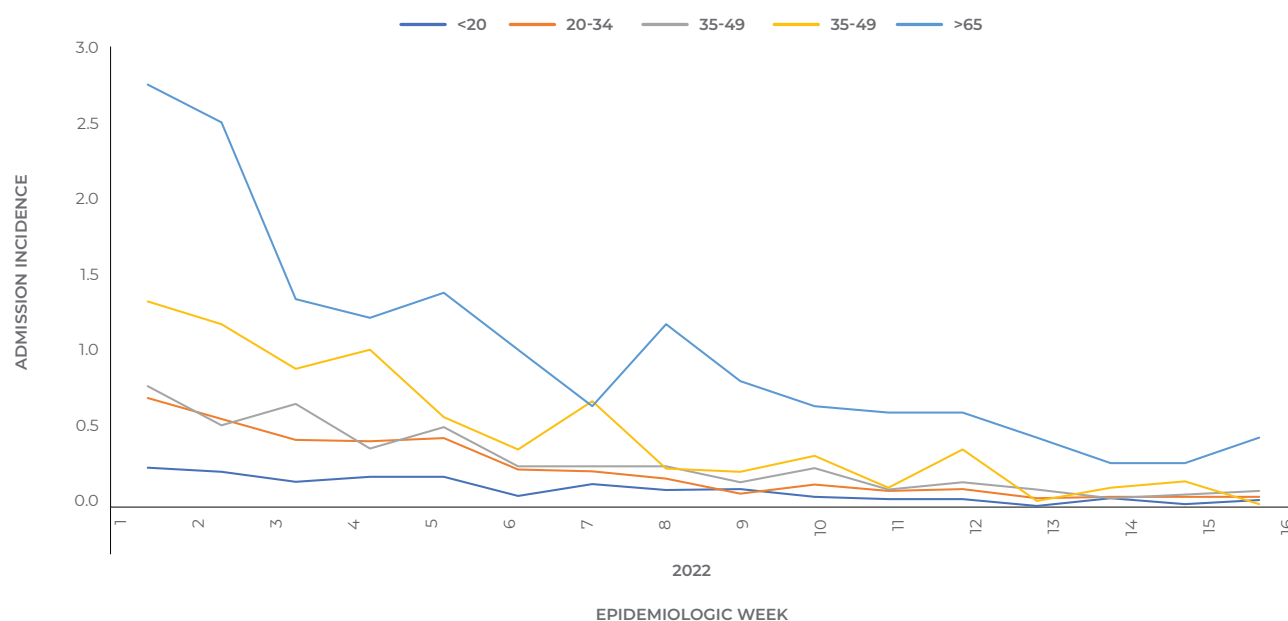


Figure 35b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, North West, week 1-16 2022

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

NORTHERN CAPE

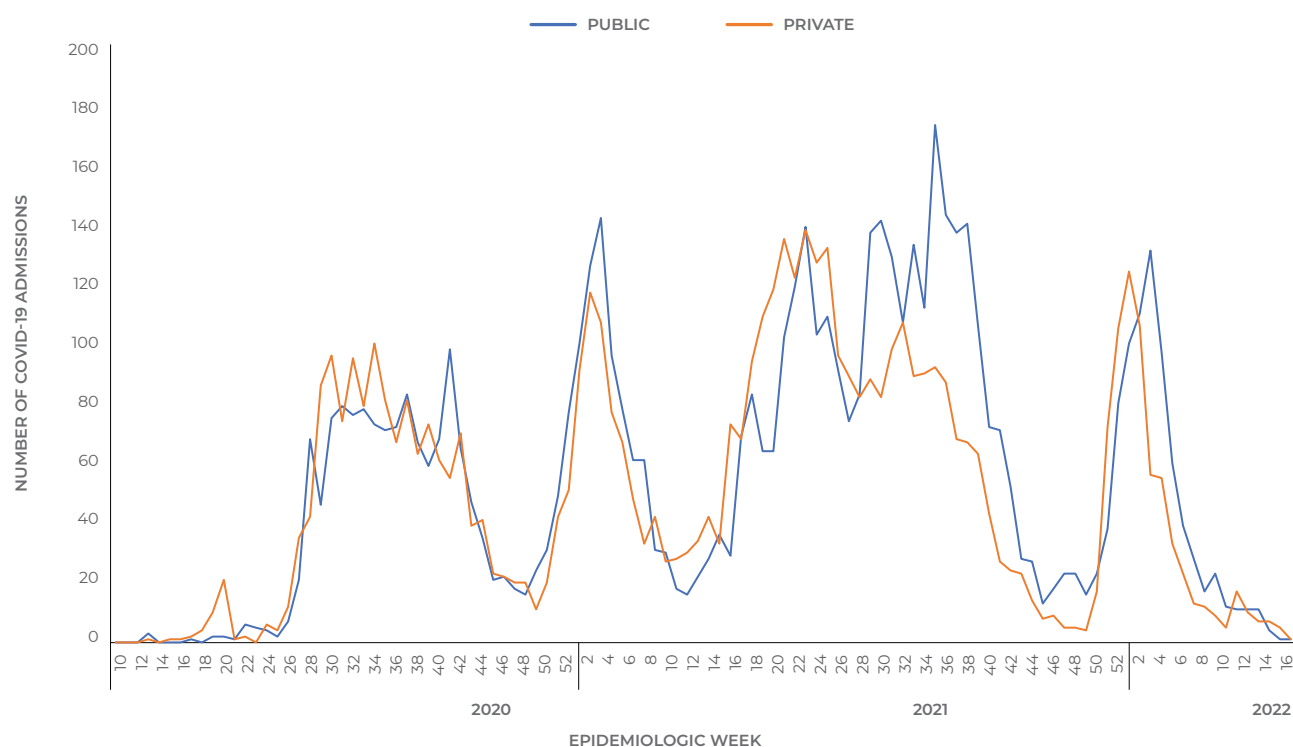


Figure 36: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Northern Cape, 5 March 2020-23 April 2022, N=11,496

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

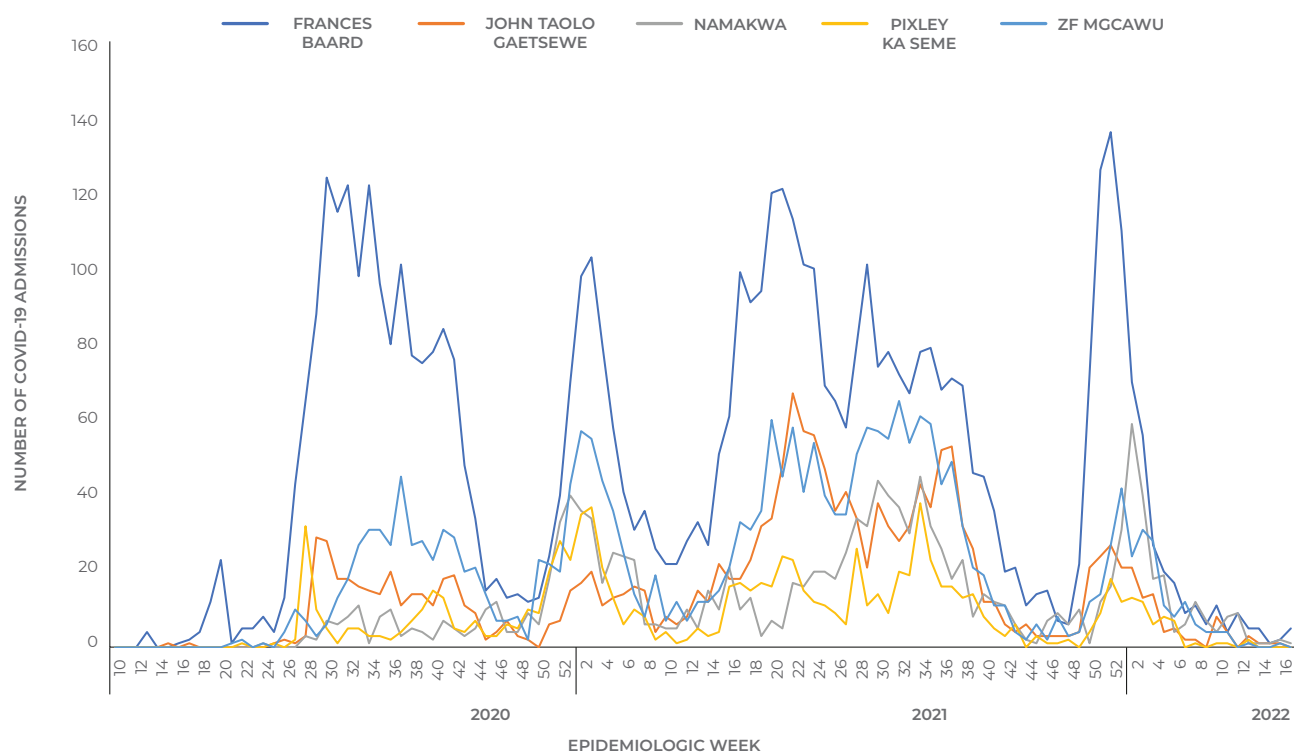


Figure 37: Number of reported COVID-19 admissions by district and epidemiologic week, Northern Cape, 5 March 2020-23 April 2022, N=11,496

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

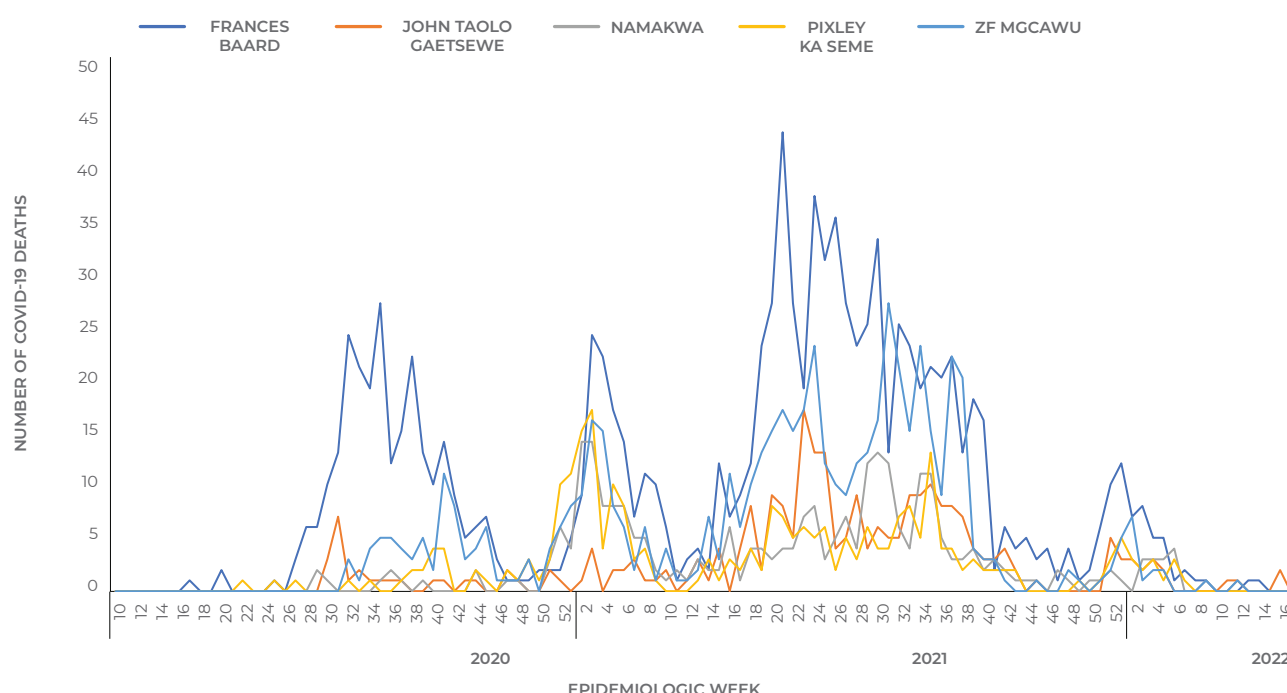


Figure 38: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Northern Cape, 5 March 2020-23 April 2022, N=2,426

Table 12: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 26 March-23 April 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 | 0.43 | 0.50 | 16.67 | 0.07 | 0.00 | -100.00 |
| John Taolo Gaetsewe | 0.14 | 0.07 | -50.00 | 0.00 | 0.14 | 0.00 |
| Namakwa | 0.07 | 0.21 | 200.00 | 0.00 | 0.00 | 0.00 |
| Pixley Ka Seme | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ZF Mgcawu | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

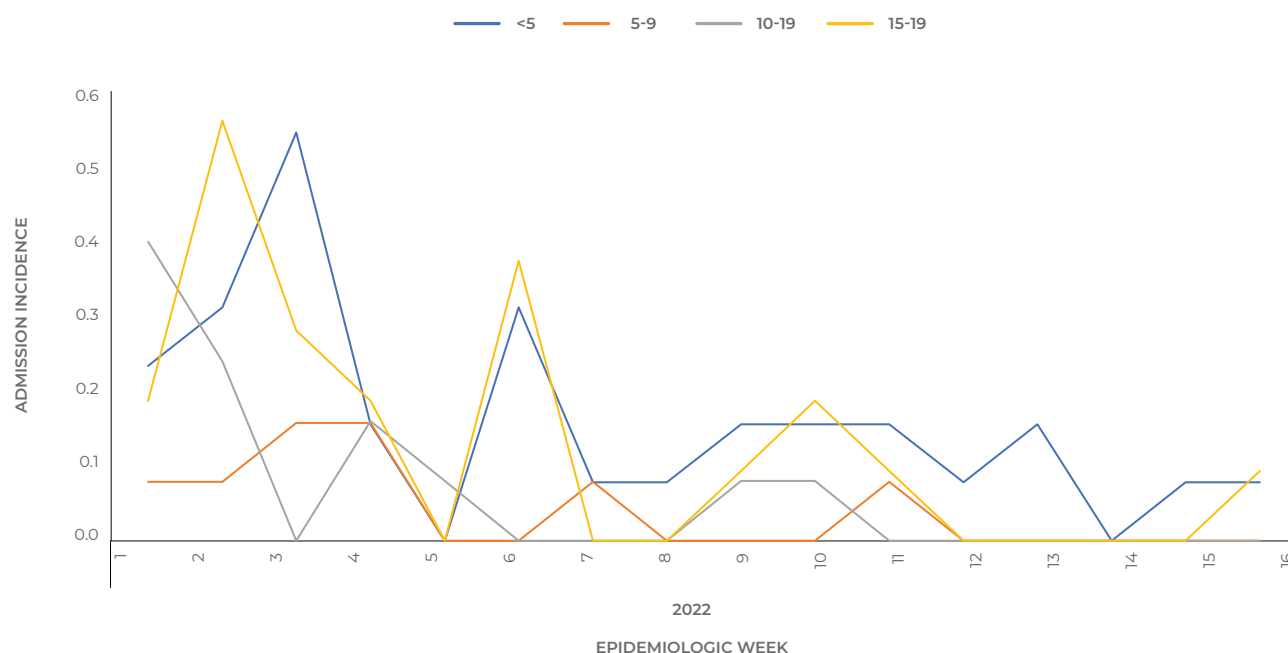


Figure 39a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Northern Cape, week 1-16 2022

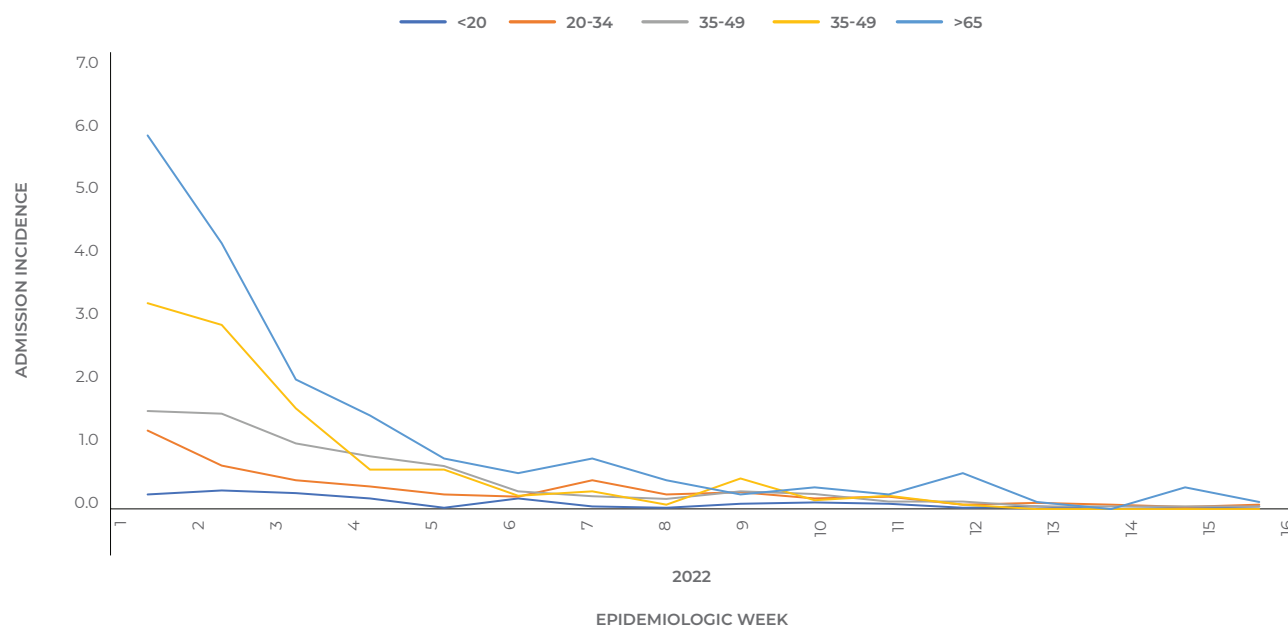


Figure 39b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Northern Cape, week 1-16 2022

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

WESTERN CAPE

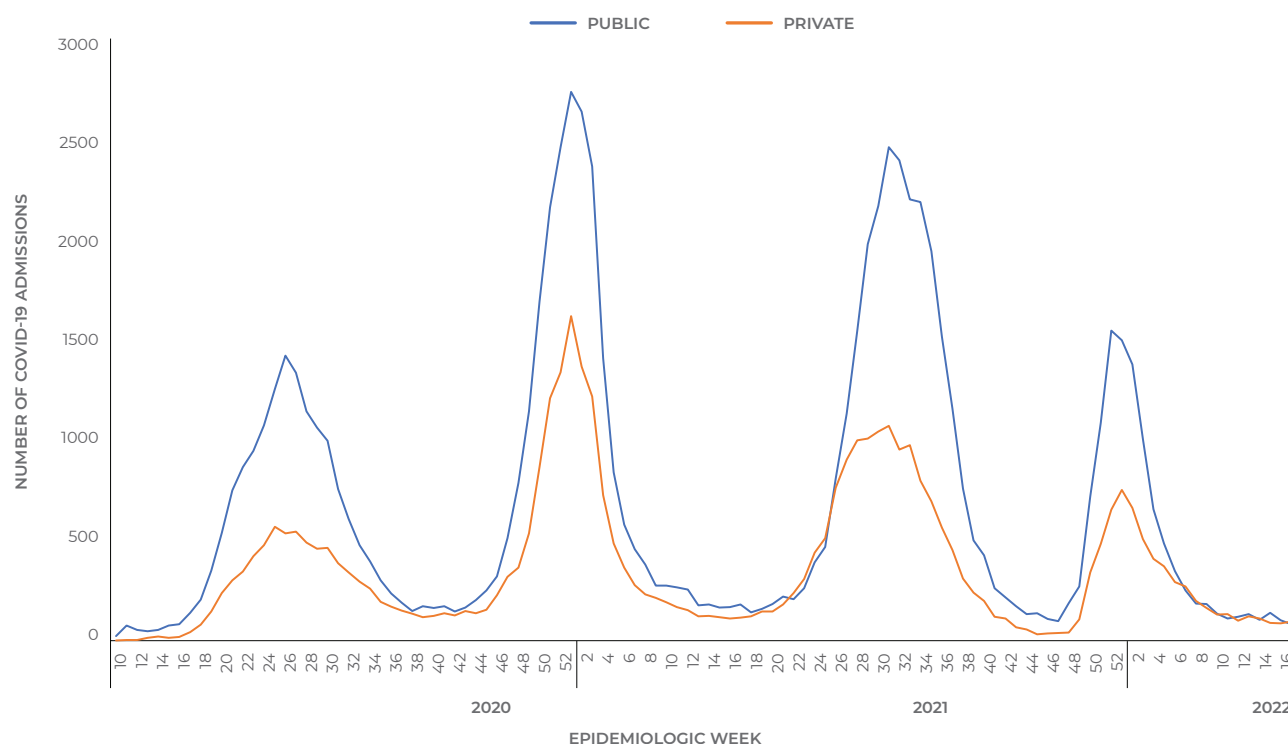


Figure 40: Number of reported COVID-19 admissions by health sector and epidemiologic week of diagnosis, Western Cape, 5 March 2020-23 April 2022, N=116,373

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

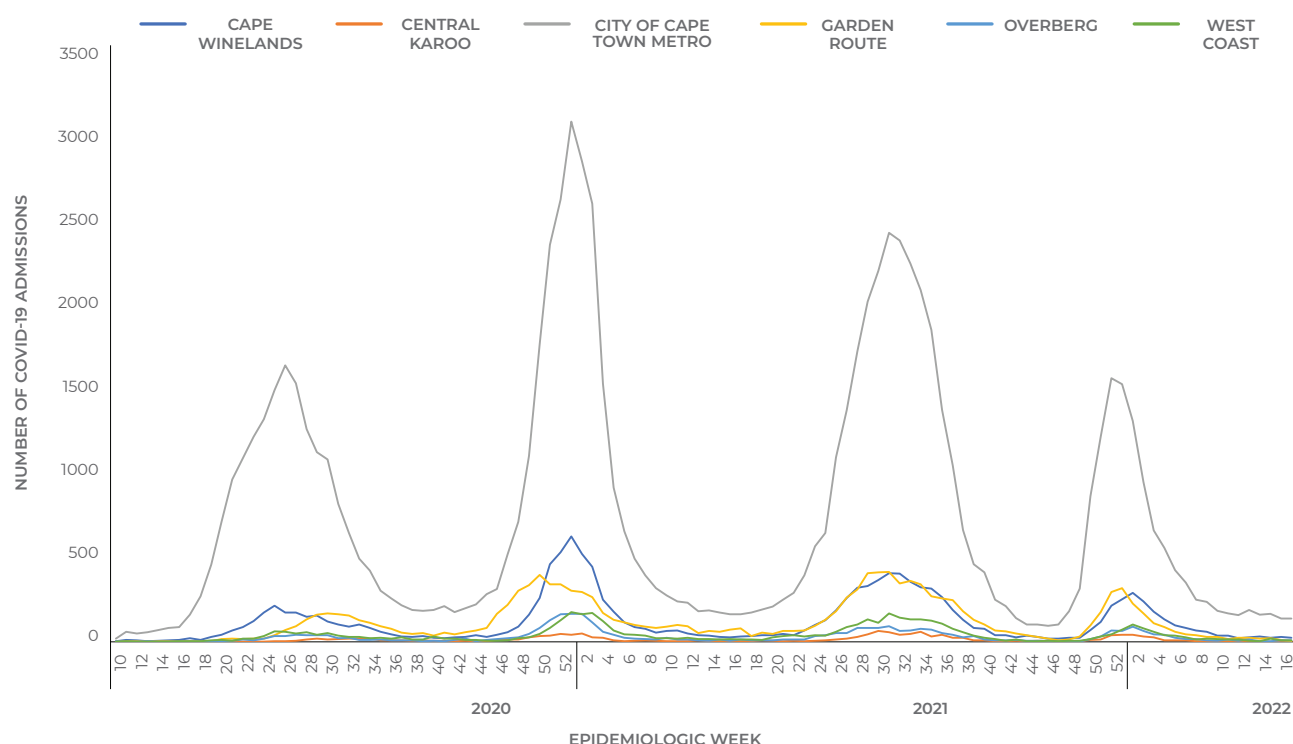


Figure 41: Number of reported COVID-19 admissions, by district and epidemiologic week, Western Cape, 5 March 2020-23 April 2022, N=116,373

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

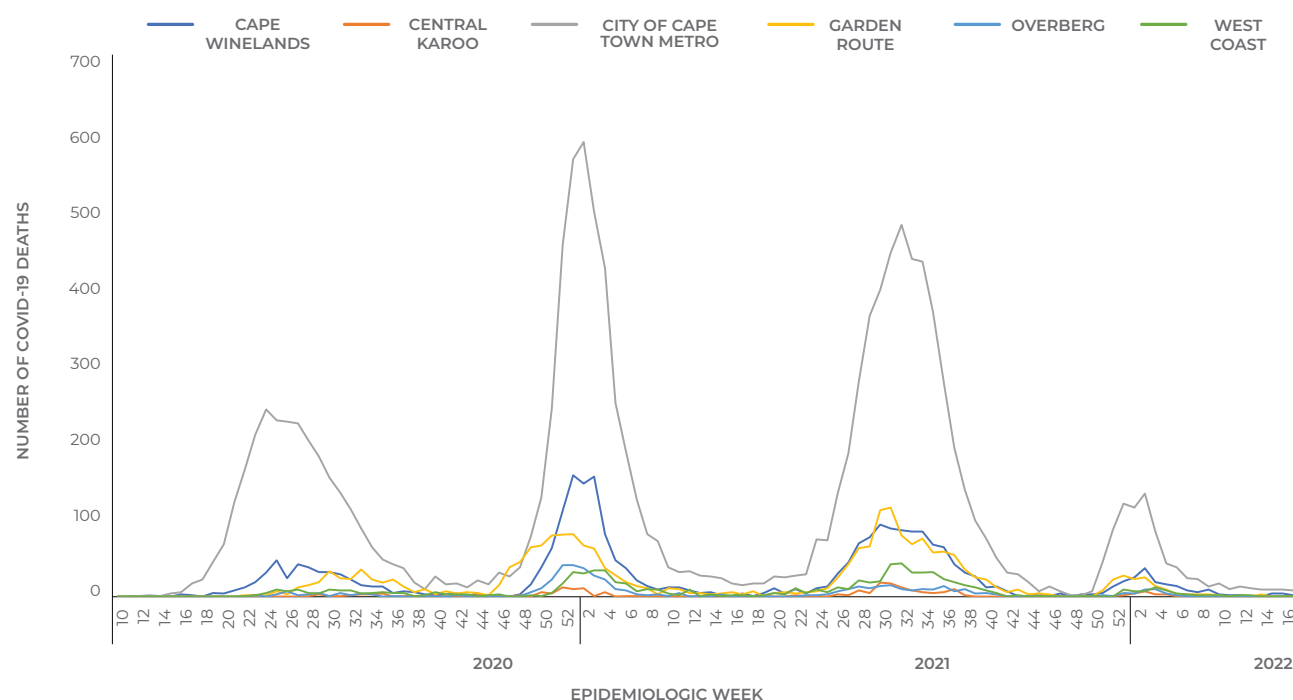


Figure 42: Number of reported COVID-19 in-hospital deaths, by district and epidemiologic week, Western Cape, 5 March 2020-23 April 2022, N=18,593

Table 13: Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 26 March-23 April 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 | 3.86 | 3.57 | -7.41 | 0.29 | 0.43 | 50.00 |
| Central Karoo | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City of Cape Town Metro | 23.07 | 19.29 | -16.41 | 1.29 | 1.21 | -5.56 |
| Garden Route | 2.71 | 1.00 | -63.16 | 0.21 | 0.07 | -66.67 |
| Overberg | 0.50 | 1.29 | 157.14 | 0.00 | 0.00 | 0.00 |
| West Coast | 1.57 | 1.14 | -27.27 | 0.00 | 0.14 | 0.00 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

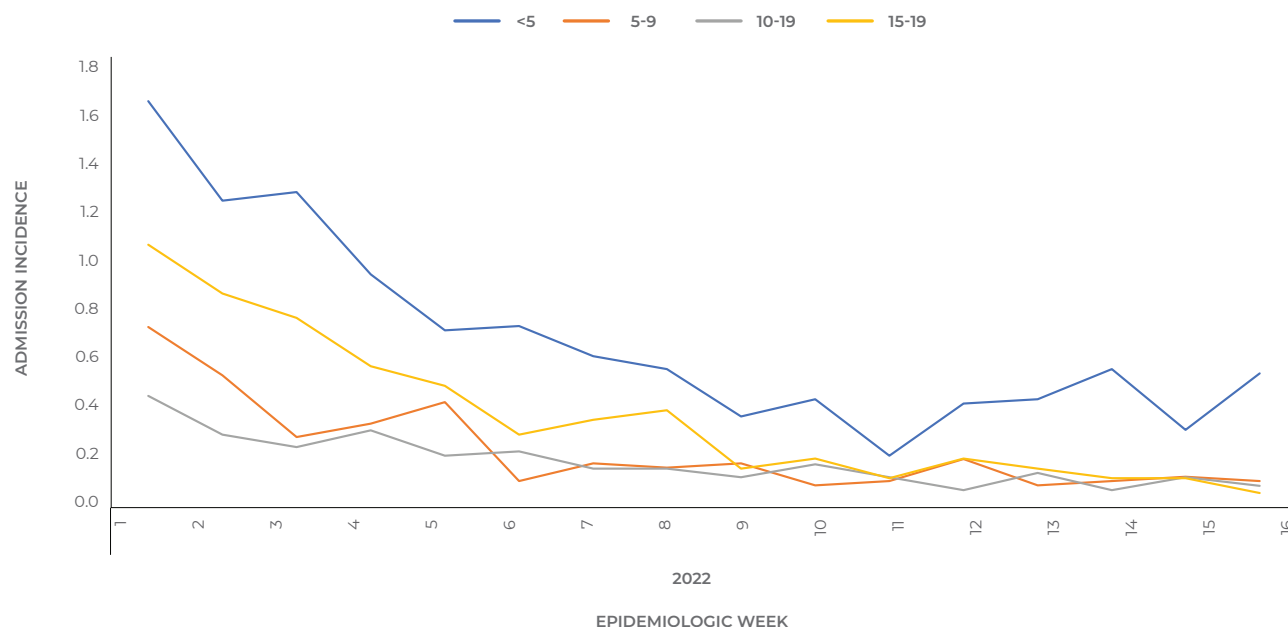


Figure 43a: Incidence risk of COVID-19 admissions per 100,000 persons, among children <19 years, by age group and epidemiologic week of diagnosis, Western Cape, week 1-16 2022

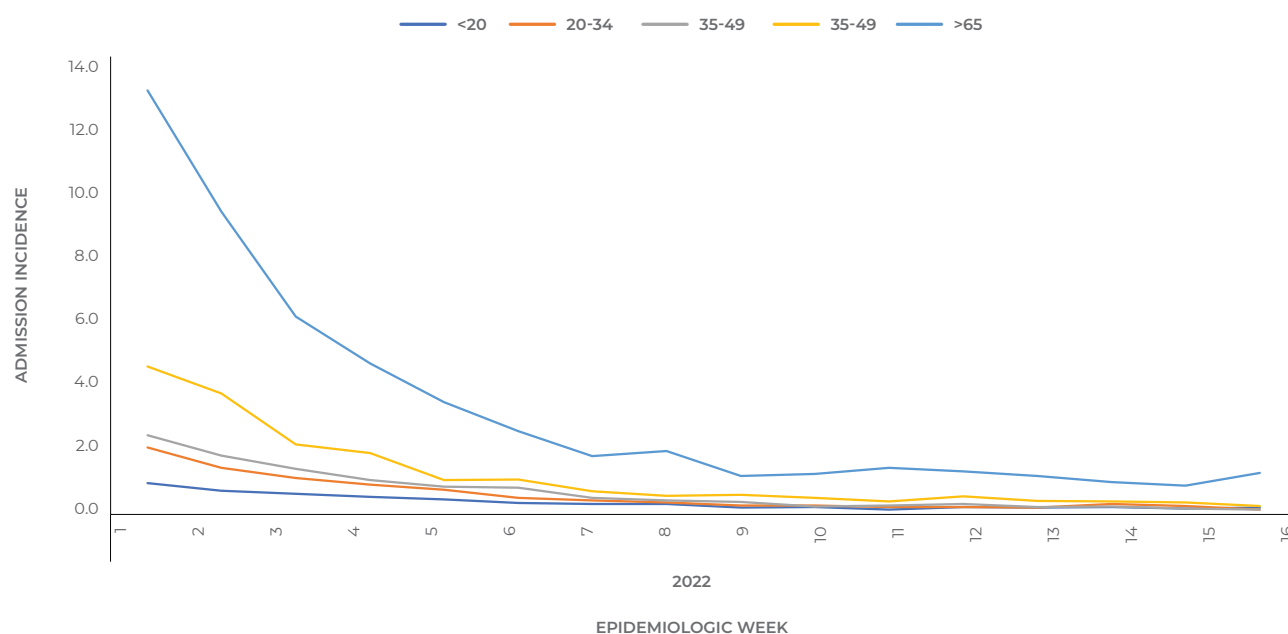


Figure 43b: Incidence risk of COVID-19 admissions per 100,000 persons, by age group and epidemiologic week of diagnosis, Western Cape, week 1-16 2022

LIMITATIONS

DATCOV now includes reporting from all hospitals with COVID-19 admissions but many hospitals are yet to reach complete submission of historic data. Data quality in a surveillance system is dependent on the information submitted by healthcare institutions. It is not possible for the NICD to verify or check the quality of all these data, however, the NICD has built-in data quality checks. Delays in reporting of admissions and deaths may affect the numbers reported in the most recent week. The National Department of Health have recruited data capturers to support hospitals to improve data submission.

As hospitals reached capacity, admission criteria may change and therefore influence trends and inferences about the progression of the epidemic. DATCOV only reports hospital-based admissions and deaths and therefore does not include deaths occurring outside hospitals. DATCOV now has a module to record out-of-hospital deaths.

Severity data has some inherent limitations. We rely on a proxy indicator for severity and do not have clinical or laboratory parameters to ascertain clinical severity. In the early and late phases of the wave there is likely to be lower severity due to there being sufficient hospital capacity. It may take a few weeks for hospitalisation outcomes to accumulate. Early reporting on case fatality ratio is also biased particularly in older adults who may have longer admissions and are more likely to die.

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

ACKNOWLEDGEMENTS

All public and private sector hospitals submitting data to DATCOV

Private hospital groups submitting data to DATCOV:

- Netcare
- Life Healthcare
- Mediclinic Southern Africa
- National Hospital Network (NHN)
- Clinix Health Group
- Lenmed
- Joint Medical Holdings (JMH)

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

APPENDIX

Table 14: Percentage incidence change in hospital admissions over 14 days, by district, South Africa, 9 April-23 April 2022.

| Province | District | Total admissions | Incidence (per 100k) | New admissions | New admissions incidence (per 100k) | % average change (14 days) |
|---------------|----------------------------|------------------|----------------------|----------------|-------------------------------------|----------------------------|
| Eastern Cape | Alfred Nzo | 2680 | 325.04 | 1 | 0.12 | 0.00 |
| | Amathole | 3268 | 417.60 | 2 | 0.26 | -50.00 |
| | Buffalo City Metro | 10461 | 1321.68 | 0 | 0.00 | -100.00 |
| | Chris Hani | 5156 | 723.59 | 0 | 0.00 | -100.00 |
| | Joe Gqabi | 1180 | 344.11 | 1 | 0.29 | 100.00 |
| | Nelson Mandela Bay Metro | 16340 | 1354.44 | 11 | 0.91 | -31.25 |
| | O R Tambo | 4942 | 322.25 | 2 | 0.13 | 0.00 |
| | Sarah Baartman | 3307 | 685.29 | 1 | 0.21 | -66.67 |
| Free State | Fezile Dabi | 3638 | 711.17 | 5 | 0.98 | 25.00 |
| | Lejweleputswa | 6393 | 978.75 | 17 | 2.60 | 41.67 |
| | Mangaung Metro | 14639 | 1670.39 | 22 | 2.51 | 10.00 |
| | Thabo Mofutsanyana | 5645 | 738.60 | 6 | 0.79 | 50.00 |
| | Xhariep | 712 | 560.44 | 0 | 0.00 | 100.00 |
| Gauteng | City of Johannesburg Metro | 53510 | 889.87 | 127 | 2.11 | 44.32 |
| | City of Tshwane Metro | 41938 | 1097.75 | 208 | 5.44 | 18.86 |
| | Ekurhuleni Metro | 32762 | 809.66 | 76 | 1.88 | -2.56 |
| | Sedibeng | 9692 | 995.06 | 26 | 2.67 | -13.33 |
| | West Rand | 13220 | 1382.25 | 22 | 2.30 | 4.76 |
| KwaZulu-Natal | Amajuba | 4649 | 819.92 | 4 | 0.71 | -63.64 |
| | eThekweni Metro | 38472 | 959.50 | 161 | 4.02 | 41.23 |
| | Harry Gwala | 2706 | 534.64 | 0 | 0.00 | -100.00 |
| | iLembe | 3006 | 432.07 | 3 | 0.43 | 50.00 |
| | King Cetshwayo | 9413 | 986.55 | 15 | 1.57 | 7.14 |
| | Ugu | 5710 | 709.80 | 18 | 2.24 | 200.00 |
| | uMgungundlovu | 11396 | 999.72 | 29 | 2.54 | 70.59 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

WEEK 16 2022

| Province | District | Total admissions | Incidence (per 100k) | New admissions | New admissions incidence (per 100k) | % average change (14 days) |
|---------------|---------------------------|------------------|----------------------|----------------|-------------------------------------|----------------------------|
| | uMkhanyakude | 1492 | 216.86 | 0 | 0.00 | -100.00 |
| | Umzinyathi | 2311 | 409.69 | 3 | 0.53 | 0.00 |
| | UThukela | 3137 | 447.90 | 9 | 1.29 | -18.18 |
| | Zululand | 2448 | 276.87 | 4 | 0.45 | 33.33 |
| Limpopo | Capricorn | 8608 | 648.71 | 6 | 0.45 | 500.00 |
| | Mopani | 3771 | 313.55 | 5 | 0.42 | 100.00 |
| | Sekhukhune | 2098 | 172.44 | 5 | 0.41 | 150.00 |
| | Vhembe | 3031 | 211.91 | 3 | 0.21 | 200.00 |
| | Waterberg | 3263 | 434.98 | 9 | 1.20 | 125.00 |
| Mpumalanga | Ehlanzeni | 7896 | 431.86 | 6 | 0.33 | 20.00 |
| | Gert Sibande | 7575 | 597.46 | 16 | 1.26 | 300.00 |
| | Nkangala | 6699 | 406.66 | 15 | 0.91 | 25.00 |
| North West | Bojanala Platinum | 11220 | 575.92 | 7 | 0.36 | -41.67 |
| | Dr Kenneth Kaunda | 16994 | 2115.52 | 27 | 3.36 | 28.57 |
| | Dr Ruth Segomotsi Mompoti | 2308 | 494.73 | 2 | 0.43 | 0.00 |
| | Ngaka Modiri Molema | 2772 | 306.35 | 0 | 0.00 | -100.00 |
| Northern Cape | Frances Baard | 5358 | 1288.07 | 5 | 1.20 | 66.67 |
| | John Taolo Gaetsewe | 1635 | 591.62 | 0 | 0.00 | -100.00 |
| | Namakwa | 1322 | 1130.00 | 1 | 0.85 | -50.00 |
| | Pixley Ka Seme | 916 | 435.33 | 0 | 0.00 | 100.00 |
| | ZF Mgcawu | 2267 | 800.18 | 0 | 0.00 | -100.00 |
| Western Cape | Cape Winelands | 13237 | 1384.89 | 32 | 3.35 | -31.91 |
| | Central Karoo | 1371 | 1808.90 | 0 | 0.00 | 100.00 |
| | City of Cape Town Metro | 81317 | 1737.95 | 183 | 3.91 | -9.41 |
| | Garden Route | 12970 | 2064.48 | 5 | 0.80 | -75.00 |
| | Overberg | 3209 | 1050.31 | 13 | 4.25 | 44.44 |
| | West Coast | 4385 | 933.98 | 15 | 3.19 | 66.67 |

COVID-19 HOSPITAL SURVEILLANCE UPDATE

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APPENDIX

Table 15: Number of reported COVID-19 admissions and in-hospital deaths by age and gender, South Africa, 5 March 2020-23 April 2022.

| Age (years) | ADMISSIONS | | | | DEATHS | | | |
|--------------|---------------|---------------|------------|---------------|--------------|--------------|-----------|---------------|
| | Female | Male | Unknown | Total | Female | Male | Unknown | Total |
| 0-4 | 6246 | 7885 | 39 | 14170 | 176 | 197 | 2 | 375 |
| 5-9 | 1787 | 2359 | 8 | 4154 | 30 | 31 | 0 | 61 |
| 10-14 | 2512 | 2562 | 9 | 5083 | 65 | 64 | 0 | 129 |
| 15-19 | 6955 | 3887 | 6 | 10848 | 152 | 134 | 0 | 286 |
| 20-24 | 10781 | 5374 | 10 | 16165 | 345 | 264 | 1 | 610 |
| 25-29 | 17051 | 7642 | 16 | 24709 | 739 | 506 | 1 | 1246 |
| 30-34 | 21871 | 12195 | 12 | 34078 | 1266 | 1080 | 1 | 2347 |
| 35-39 | 22588 | 16034 | 21 | 38643 | 1813 | 1708 | 4 | 3525 |
| 40-44 | 20033 | 17755 | 16 | 37804 | 2231 | 2303 | 1 | 4535 |
| 45-49 | 22119 | 21729 | 12 | 43860 | 3200 | 3384 | 1 | 6585 |
| 50-54 | 25655 | 24041 | 10 | 49706 | 4349 | 4503 | 2 | 8854 |
| 55-59 | 28526 | 26015 | 15 | 54556 | 6161 | 6188 | 5 | 12354 |
| 60-64 | 25273 | 23177 | 20 | 48470 | 6626 | 6831 | 6 | 13463 |
| 65-69 | 21844 | 19471 | 17 | 41332 | 6854 | 6410 | 6 | 13270 |
| 70-74 | 18633 | 16377 | 19 | 35029 | 6097 | 5931 | 4 | 12032 |
| 75-79 | 13996 | 11511 | 9 | 25516 | 4828 | 4506 | 3 | 9337 |
| 80-84 | 10666 | 7499 | 8 | 18173 | 3950 | 3076 | 3 | 7029 |
| 85-89 | 5784 | 3592 | 2 | 9378 | 2209 | 1619 | 0 | 3828 |
| 90-94 | 2548 | 1249 | 1 | 3798 | 1081 | 618 | 0 | 1699 |
| >=95 | 786 | 372 | 3 | 1161 | 358 | 157 | 0 | 515 |
| Unknown | 887 | 692 | 48 | 1627 | 48 | 45 | 0 | 93 |
| Total | 286541 | 231418 | 301 | 518260 | 52578 | 49555 | 40 | 102173 |