

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

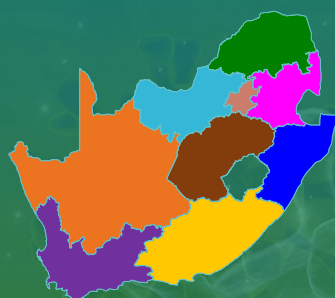


NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 12 2022

CUMULATIVE DATA FROM



CASES

3 713 252
IN TOTAL

8 024
THIS WEEK**

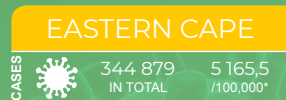
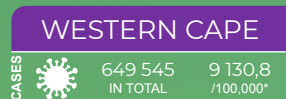


PERSONS

6 174,0
INCIDENCE RISK*

38
MEDIAN AGE

PROVINCES AT A GLANCE



* Incidence risk - cases per 100 000 persons
** based on samples collected/received in current reporting week

SUMMARY

Overview of report

Disease surveillance is a core function of the National Institute for Communicable Diseases (NICD), a division of the National Health Laboratory Service (NHLS). This report summarises data from a national laboratory-based surveillance system that is used to monitor the coronavirus disease 2019 (COVID-19) pandemic, caused by the SARS-CoV-2 virus, in South Africa. This report is based on data collected up to 26 March 2022 (week 12 of 2022). Note: Trends in numbers of new cases by province and age group may be affected by changes in testing practice and delays in testing of specimens and numbers are updated weekly as new data become available. The methods and data sources can be found at the end of the report.

Highlights

- As of 26 March, a total of 3 713 252 laboratory-confirmed COVID-19 cases had been detected in South Africa. Of these, 9 034 were cases reported since the last report (week 11 of 2022). There was a 10.8% decrease in the number of new cases detected in week 12 of 2022 (8 024) compared to the number of new cases detected in week 11 of 2022 (8 994).
- In the past week, the Gauteng Province reported the highest number of cases detected (3 009/8 024, 37.5%), followed by the Western Cape Province (2 216/8 024, 27.6%), and KwaZulu-Natal Province (1 517/8 024, 18.9%), with other provinces reporting <5% each.
- In the past week, all provinces reported a decrease in weekly incidence risk, except the Eastern Cape Province, which reported an increase in weekly incidence risk 0.5 cases per 100 000 persons (10.9% increase), compared to the previous week. The decrease in weekly incidence risk ranged from 0.1 cases per 100 000 persons (1.0% decrease) in the KwaZulu-Natal Province to 3.1 cases per 100 000 persons (9.1% decrease) in the Western Cape Province. Some of the reduction could be due to delayed reporting.
- The increase in the Eastern Cape Province in week 12 of 2022 was reported in the OR. Tambo (0.1 cases per 100 000 persons, 100.0% increase) and Sarah Baartman (0.8 cases per 100 000 persons, 16.0% increase) districts.
- As in the past 6 weeks, the Western Cape Province reported the highest weekly incidence risk (31.2 cases per 100 000 persons), followed by the Gauteng Province (19.0 cases per 100 000 persons), and the KwaZulu-Natal Province (13.2 cases per 100 000 persons). The other provinces reported weekly incidence below 9 cases per 100 000 persons.
- The highest weekly incidence risk among cases detected in week 12 of 2022 was reported in the 80+-year age group (25.5 cases per 100 000 persons), and the lowest weekly incidence risk was in the 5-9-year age group (4.1 cases per 100 000 persons).

INCIDENCE
RISK FOR
CURRENT WEEK

13,3
CASES PER
100 000
PERSONS

37,5%
OF CASES
REPORTED IN
GAUTENG IN
CURRENT WEEK

IN CURRENT
WEEK, THE
HIGHEST
WEEKLY
INCIDENCE
RISK WAS IN
CASES AGED
80+ YEARS (25,5
CASES PER 100
000 PERSONS)

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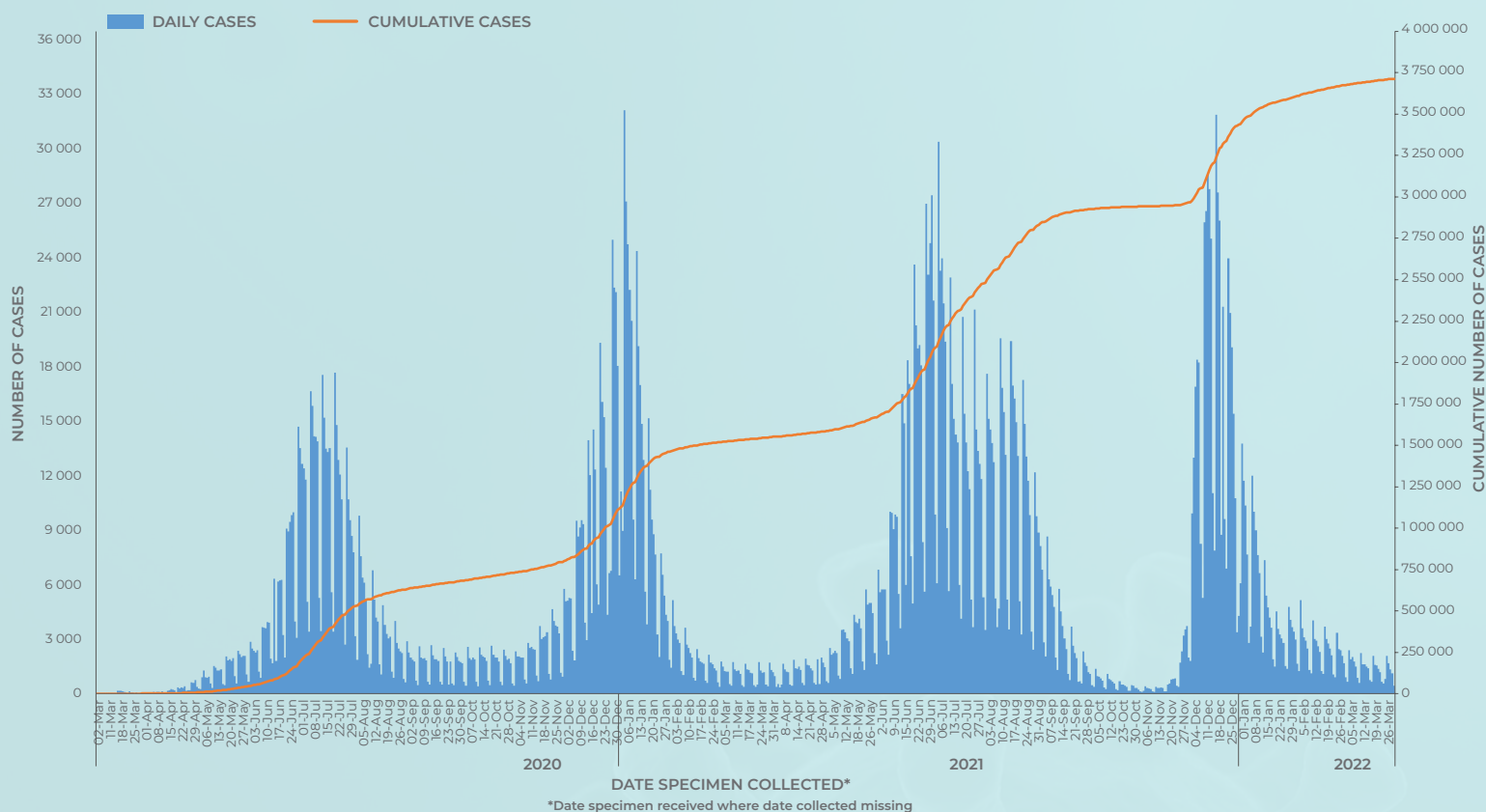


Figure 1. Number and cumulative number of laboratory-confirmed cases of COVID-19 by date of specimen collection, South Africa, 3 March 2020 – 26 March 2022 (n = 3 713 252)

Table 1. Number and cumulative/weekly incidence risk of laboratory-confirmed cases of COVID-19 and testing per 100 000 persons by province, South Africa, 3 March 2020 – 26 March (n = 3 713 252)

| Province | Cumulative cases (n) (percentage, n/ total cases in South Africa) | New cases ¹ detected in week 12 of 2022 (20-26 Mar), n (percentage ² , n/total) | Population in mid-2021 ³ , n | Cumulative incidence risk (cases per 100 000 persons) | Incidence risk of new cases detected in week 12 of 2022 (cases/100 000 persons) | Tests ⁴ per 100 000 persons, 20-26 Mar 2022 |
|---------------|--|--|--|---|--|--|
| Eastern Cape | 344 879 (9.3) | 346 (4.3) | 6 676 590 | 5 165.5 | 5.2 | 112.8 |
| Free State | 202 205 (5.4) | 237 (3.0) | 2 932 441 | 6 895.5 | 8.1 | 228.5 |
| Gauteng | 1 206 956 (32.5) | 3 009 (37.5) | 15 810 388 | 7 633.9 | 19.0 | 339.9 |
| KwaZulu-Natal | 659 228 (17.8) | 1 517 (18.9) | 11 513 575 | 5 725.7 | 13.2 | 255.6 |
| Limpopo | 155 697 (4.2) | 110 (1.4) | 5 926 724 | 2 627.0 | 1.9 | 48.1 |
| Mpumalanga | 193 065 (5.2) | 227 (2.8) | 4 743 584 | 4 070.0 | 4.8 | 132.0 |
| North West | 192 832 (5.2) | 279 (3.5) | 4 122 854 | 4 677.1 | 6.8 | 139.0 |
| Northern Cape | 108 845 (2.9) | 83 (1.0) | 1 303 047 | 8 353.1 | 6.4 | 176.9 |
| Western Cape | 649 545 (17.5) | 2 216 (27.6) | 7 113 776 | 9 130.8 | 31.2 | 266.7 |
| Unknown | | | | | | |
| Total | 3 713 252 | 8 024 | 60 142 978 | 6 174.0 | 13.3 | 224.2 |

¹New cases refer to cases whose samples were collected or received in the current reporting week; ²Percentage=n/total number of new cases (specimen collected or received in current reporting week); ³2021 Mid-year population Statistics South Africa ⁴Data on number of tests conducted sourced from COVID-19 weekly testing report of the same reporting week

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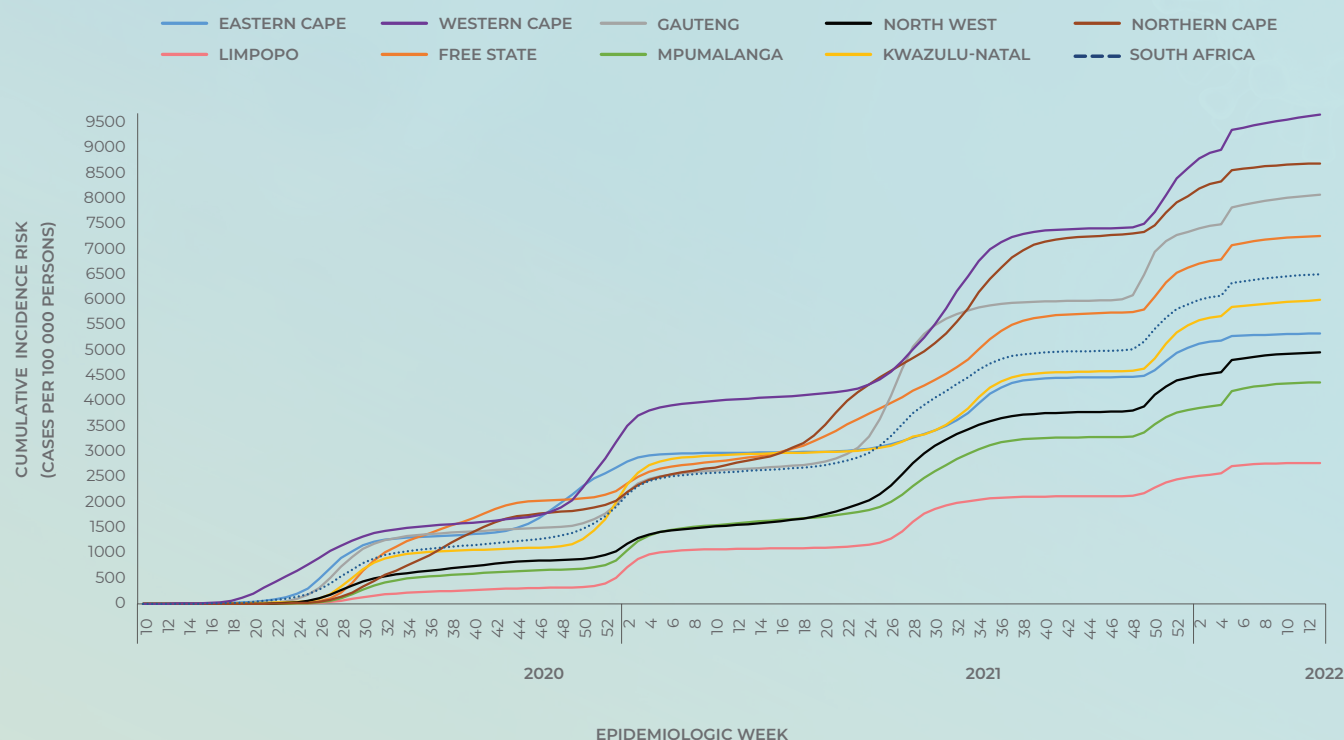


Figure 2. Cumulative incidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week South Africa 3 March 2020 – 26 March 2022 (n = 3 713 252)

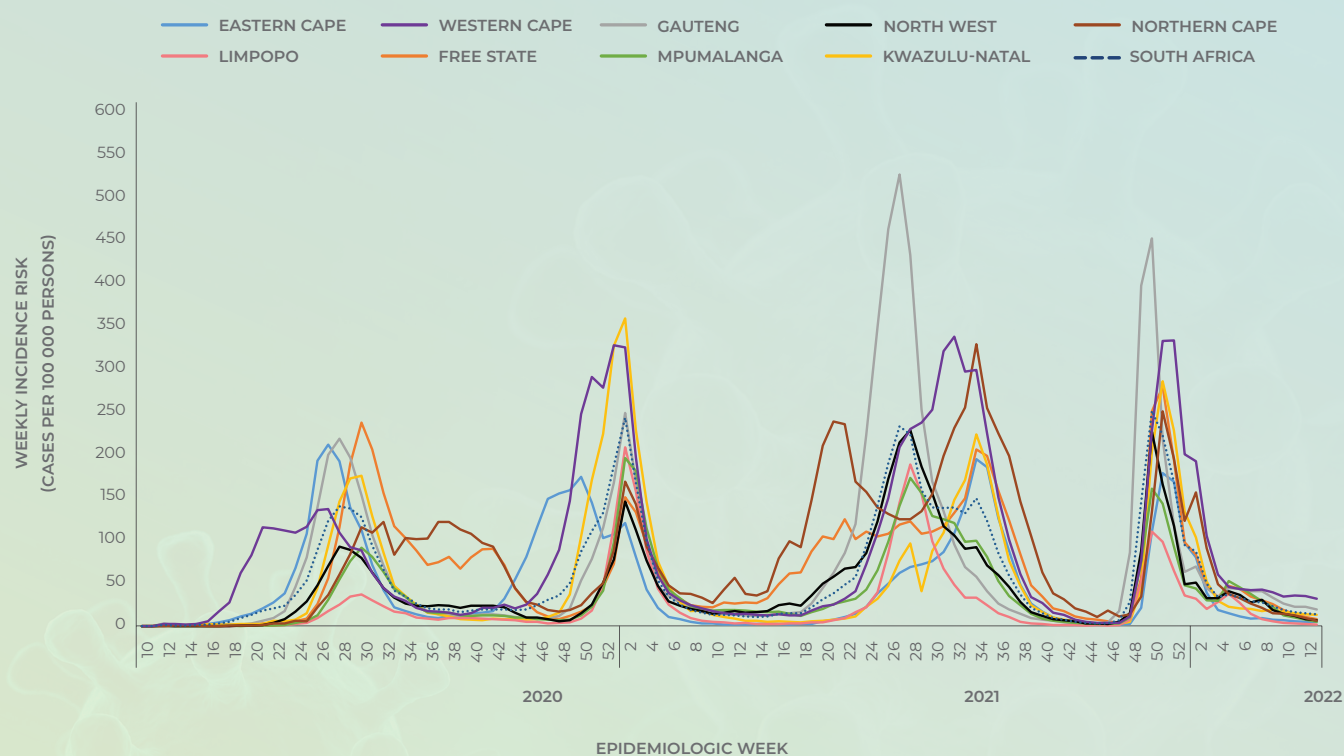


Figure 3. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week South Africa 3 March 2020 – 26 March 2022 (n = 3 713 252)

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

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Characteristics of COVID-19 cases in South Africa by age and sex

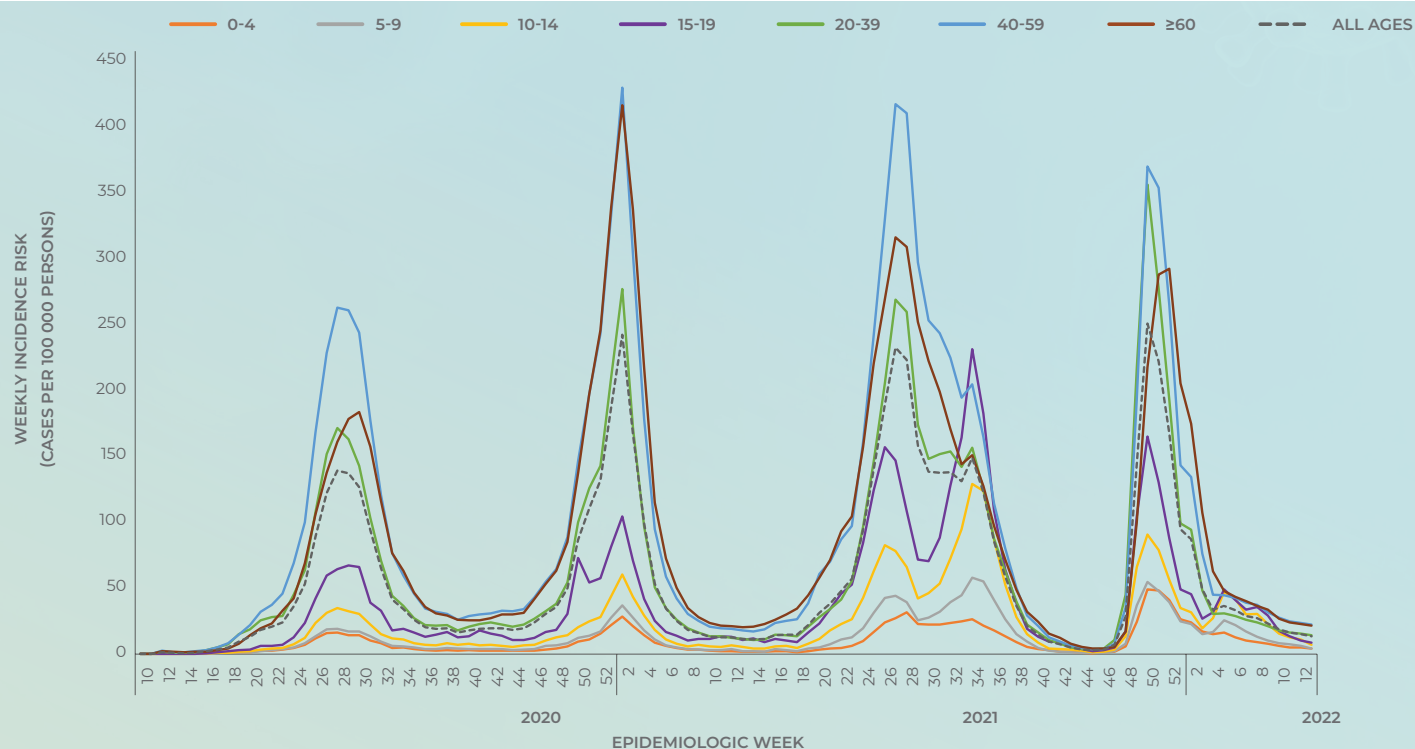


Figure 4. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week South Africa 3 March 2020 – 26 March 2022 (n = 3 678 371, 34 881 missing age)

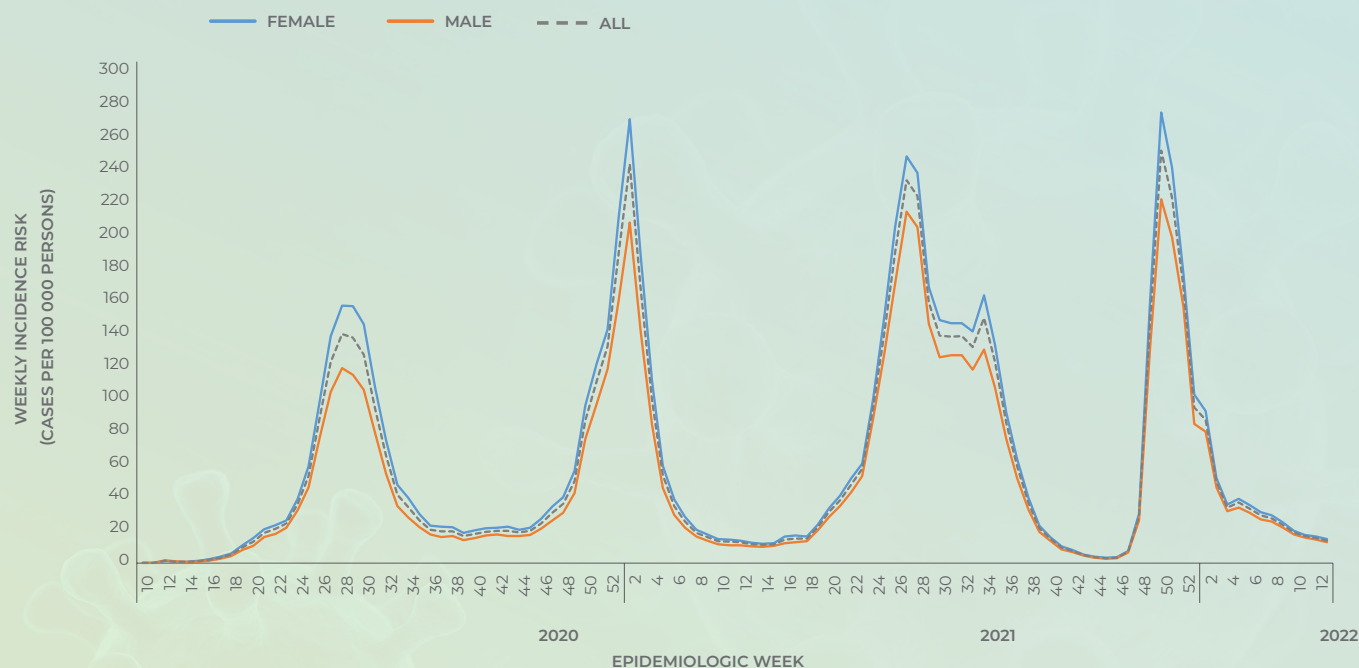


Figure 5. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by sex and epidemiologic week South Africa 3 March 2020 – 26 March 2022 (n = 3 673 867, sex missing for 39 385)

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Table 2. Number of laboratory-confirmed cases of COVID-19 and cumulative/weekly incidence risk by age group South Africa 3 March 2020 – 26 March 2022 n = 3 678 371, 34 881 missing age)

| Age group (years) | Cumulative cases (n) (percentage, n/total cases in South Africa) | New cases ¹ detected in week 12 of 2022 (20-26 Mar) n (percentage ² , n/total) | Population in mid-2021 ³ , n | Cumulative incidence risk (cases per 100 000 persons) | Incidence risk of new cases detected in week 12 of 2022 (cases/100 000 persons) |
|-------------------|--|--|---|---|---|
| 0-4 | 57 386 (1.6) | 243 (3.0) | 5 708 956 | 1 005.2 | 4.3 |
| 5-9 | 78 658 (2.1) | 232 (2.9) | 5 663 296 | 1 388.9 | 4.1 |
| 10-14 | 142 246 (3.9) | 389 (4.9) | 5 671 023 | 2 508.3 | 6.9 |
| 15-19 | 206 499 (5.6) | 411 (5.2) | 4 909 941 | 4 205.7 | 8.4 |
| 20-24 | 244 686 (6.7) | 496 (6.2) | 4 739 305 | 5 162.9 | 10.5 |
| 25-29 | 358 435 (9.7) | 671 (8.4) | 5 324 134 | 6 732.3 | 12.6 |
| 30-34 | 413 154 (11.2) | 837 (10.5) | 5 630 643 | 7 337.6 | 14.9 |
| 35-39 | 419 159 (11.4) | 892 (11.2) | 4 985 251 | 8 408.0 | 17.9 |
| 40-44 | 355 349 (9.7) | 764 (9.6) | 3 881 731 | 9 154.4 | 19.7 |
| 45-49 | 338 207 (9.2) | 688 (8.6) | 3 254 138 | 10 393.1 | 21.1 |
| 50-54 | 303 483 (8.3) | 647 (8.1) | 2 625 390 | 11 559.5 | 24.6 |
| 55-59 | 251 979 (6.9) | 537 (6.7) | 2 243 823 | 11 229.9 | 23.9 |
| 60-64 | 176 156 (4.8) | 390 (4.9) | 1 815 810 | 9 701.2 | 21.5 |
| 65-69 | 121 173 (3.3) | 272 (3.4) | 1 422 604 | 8 517.7 | 19.1 |
| 70-74 | 88 278 (2.4) | 200 (2.5) | 1 024 345 | 8 618.0 | 19.5 |
| 75-79 | 57 166 (1.6) | 150 (1.9) | 647 265 | 8 831.9 | 23.2 |
| ≥80 | 66 357 (1.8) | 152 (1.9) | 595 323 | 11 146.4 | 25.5 |
| Unknown | 34 881 (0.0) | 53 (0.0) | | | |
| Total | 3 713 252 (100.0) | 8 024 (100.0) | 60 142 978 | 6 174.0 | 13.3 |

¹New cases refer to cases whose samples were collected or received in the current reporting week; ²Percentage=n/total number of new cases (specimen collected or received in current reporting week); ³2021 Mid-year population Statistics South Africa

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Provincial trends of COVID-19 cases

Eastern Cape Province

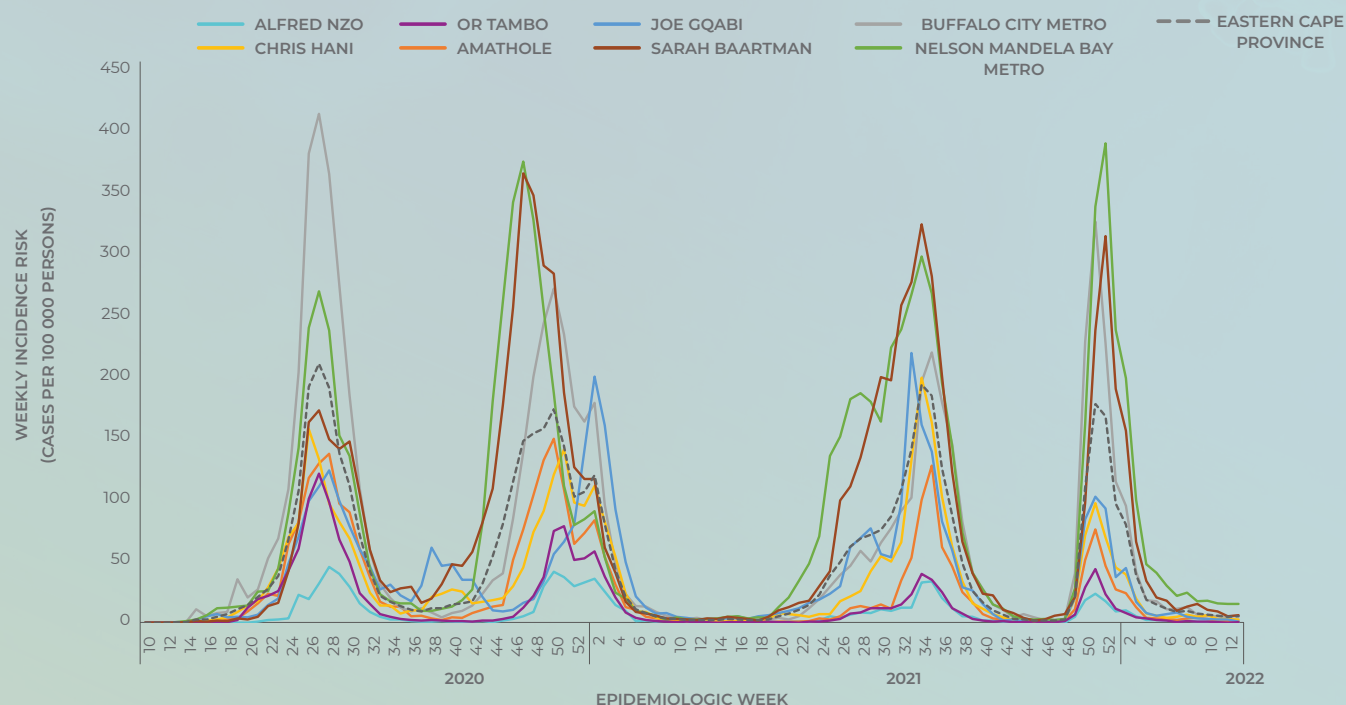


Figure 6. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Eastern Cape Province 3 March 2020 – 26 March 2022 (n = 290 280, 54 599 missing district)

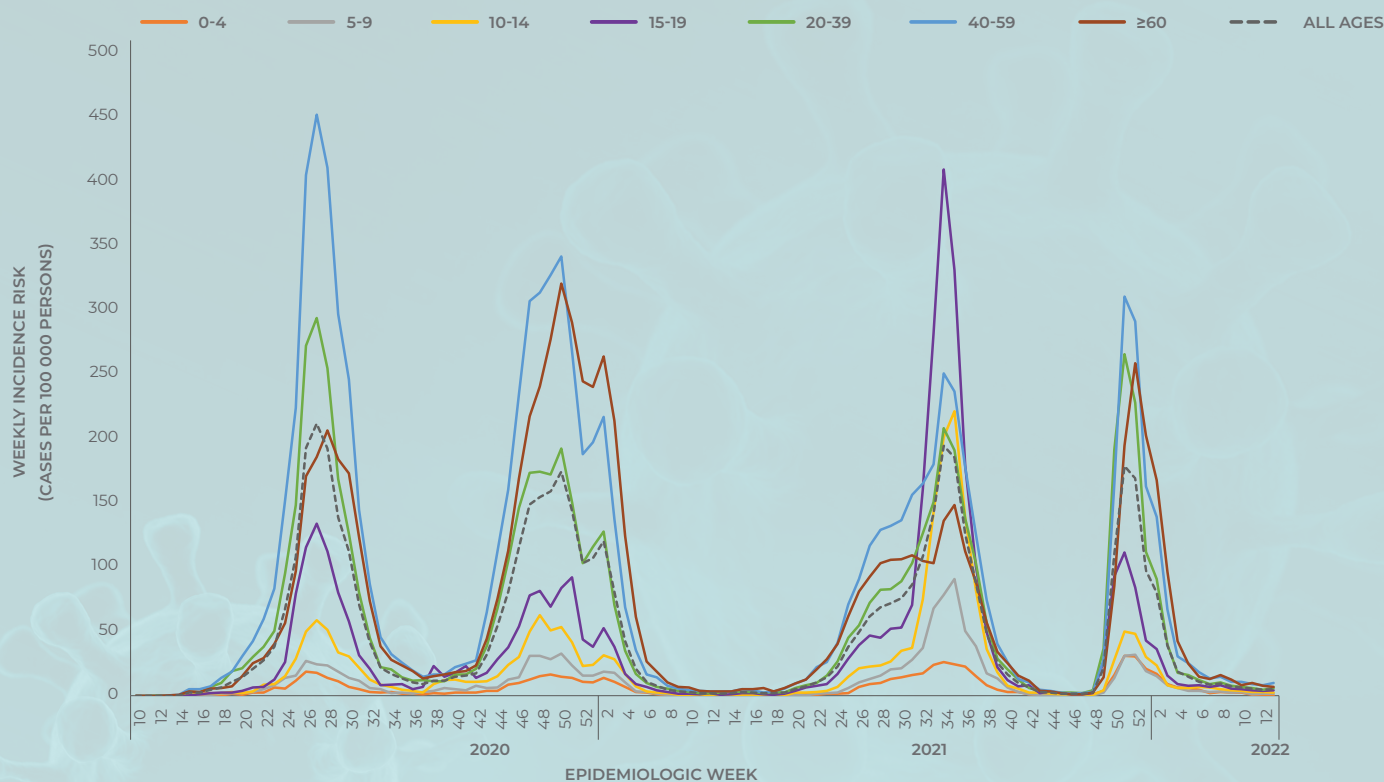


Figure 7. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Eastern Cape Province 3 March 2020 – 26 March 2022 (n = 341 227, 3 652 missing age)

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Western Cape Province

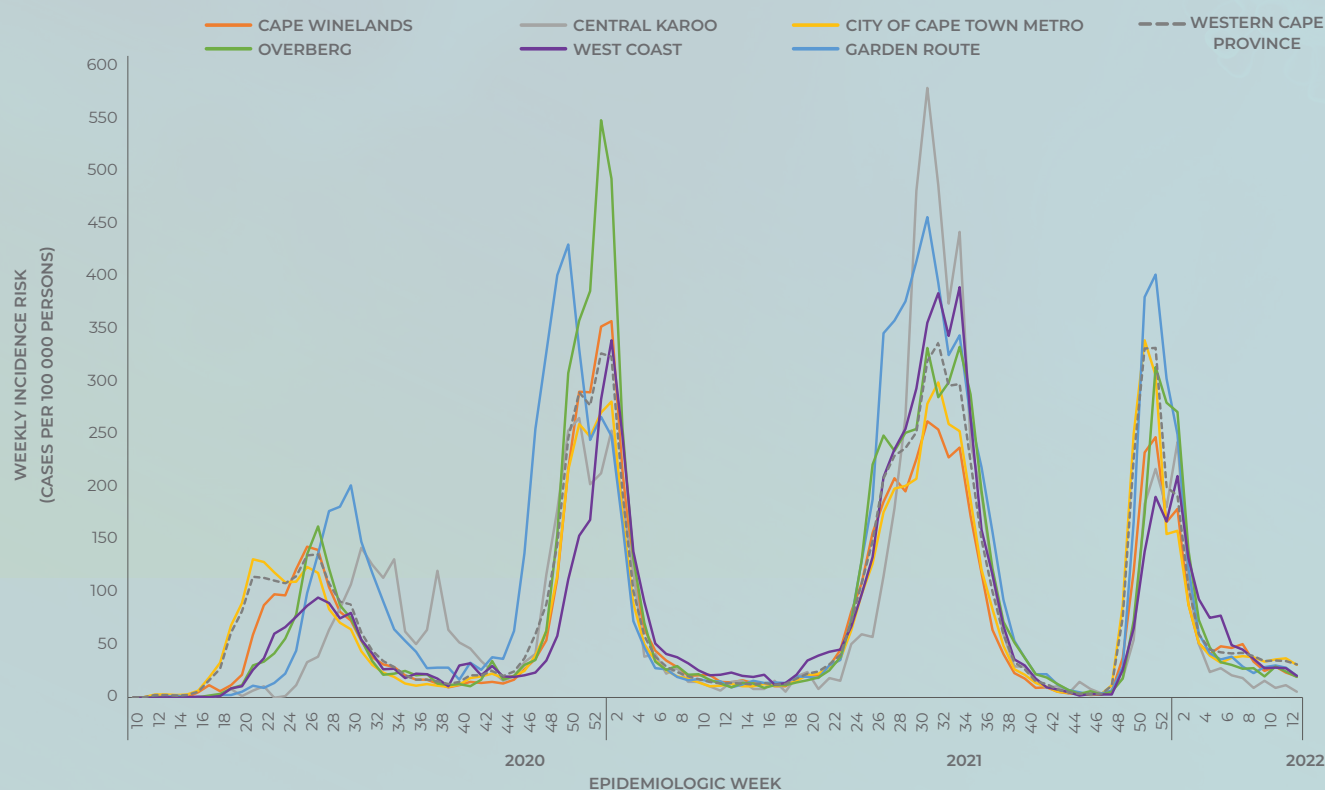


Figure 8. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Western Cape Province 3 March 2020 – 26 March 2022 (n = 597 035, 52 510 missing district)

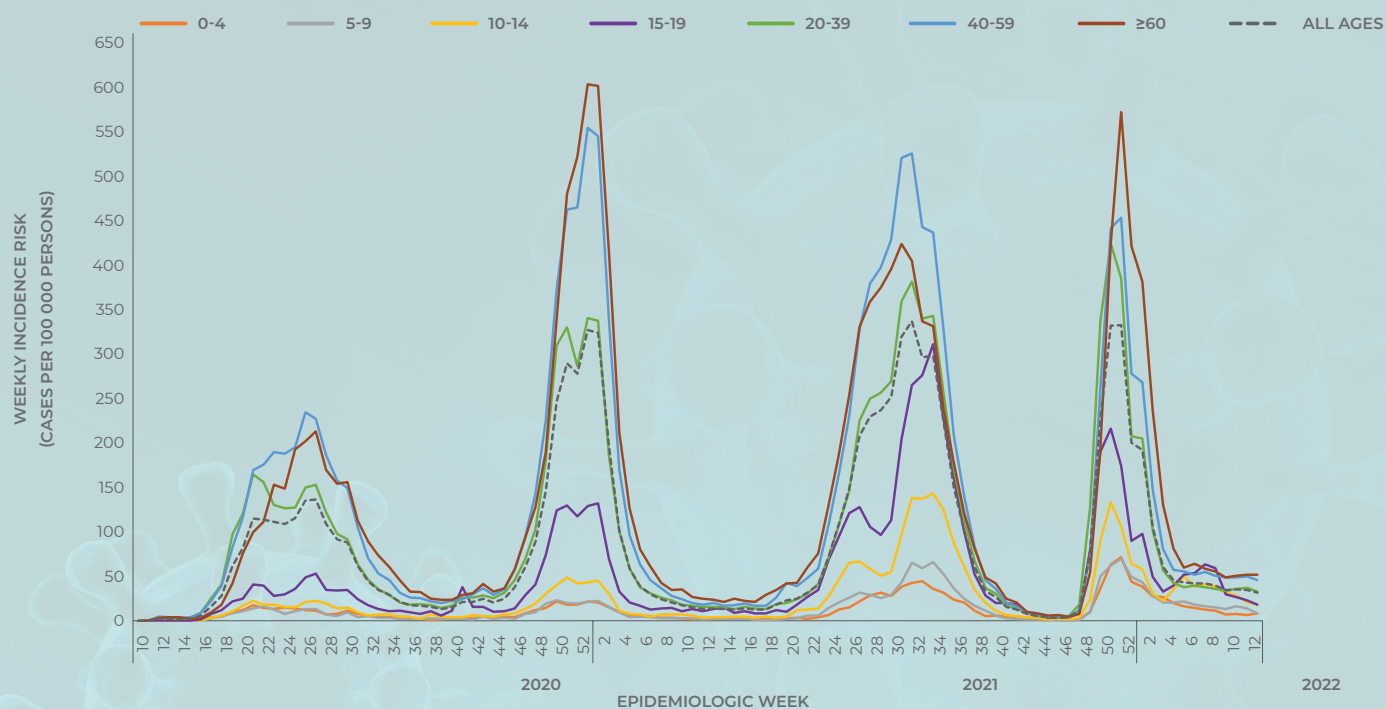


Figure 9. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Western Cape Province 3 March 2020 – 26 March 2022 (n = 647 784, 1 761 missing age)

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Gauteng Province

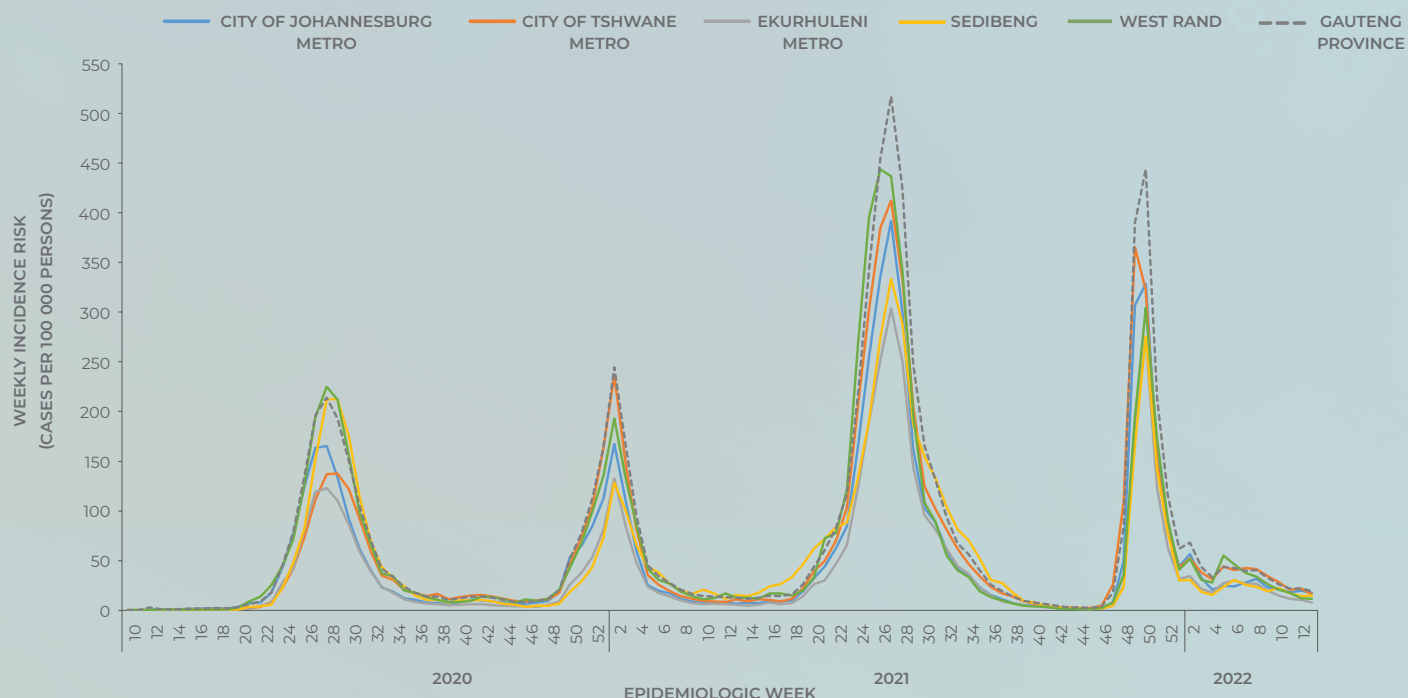


Figure 10. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Gauteng Province 3 March 2020 – 26 March 2022 (n = 857 207, 349 749 missing district)

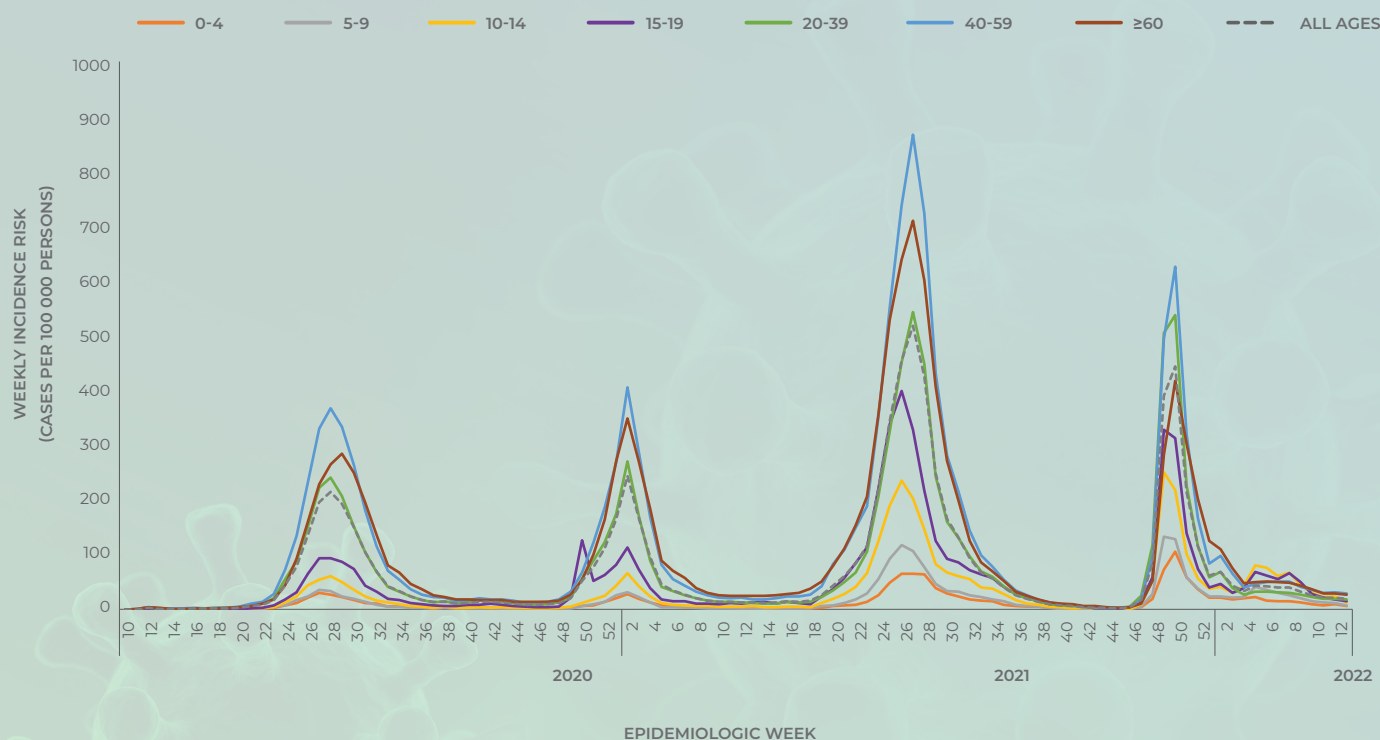


Figure 11. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Gauteng Province 3 March 2020 – 26 March 2022 (n = 1 194 695, 12 261 missing age)

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KwaZulu-Natal Province

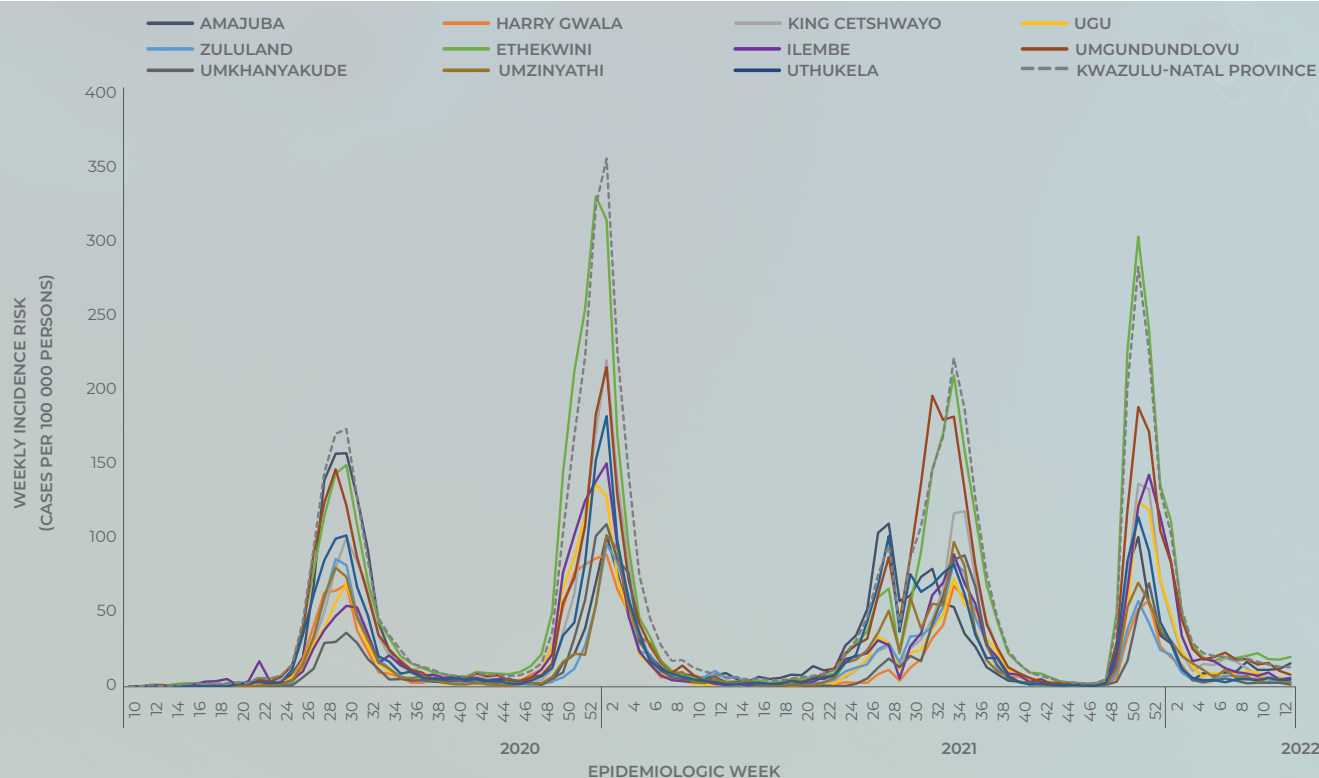


Figure 12. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week KwaZulu-Natal Province 3 March 2020 – 26 March 2022 (n = 404 902, 254 326 missing district)

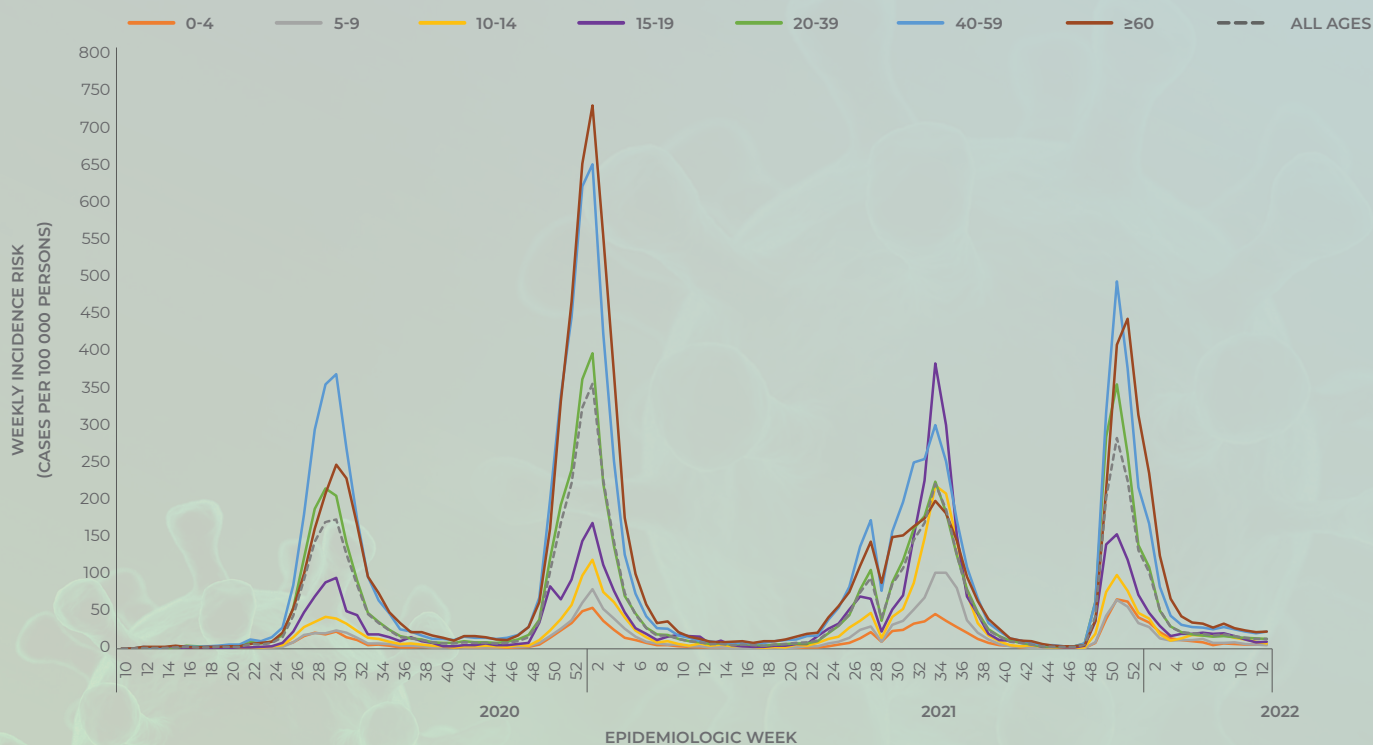


Figure 13. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week KwaZulu-Natal Province 3 March 2020 – 26 March 2022 (n = 650 793, 8 435 missing age)

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Free State Province

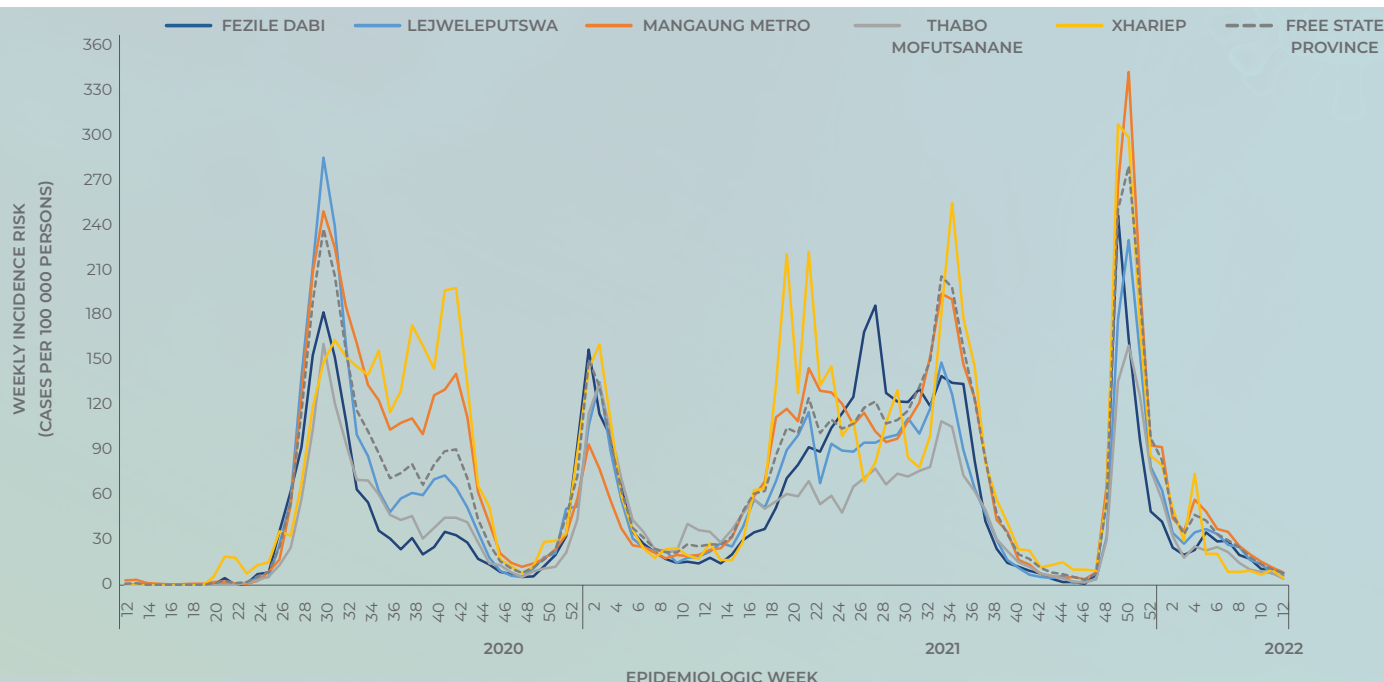


Figure 14. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Free State Province 3 March 2020 – 26 March 2022 (n = 172 516, 29 689 missing district)

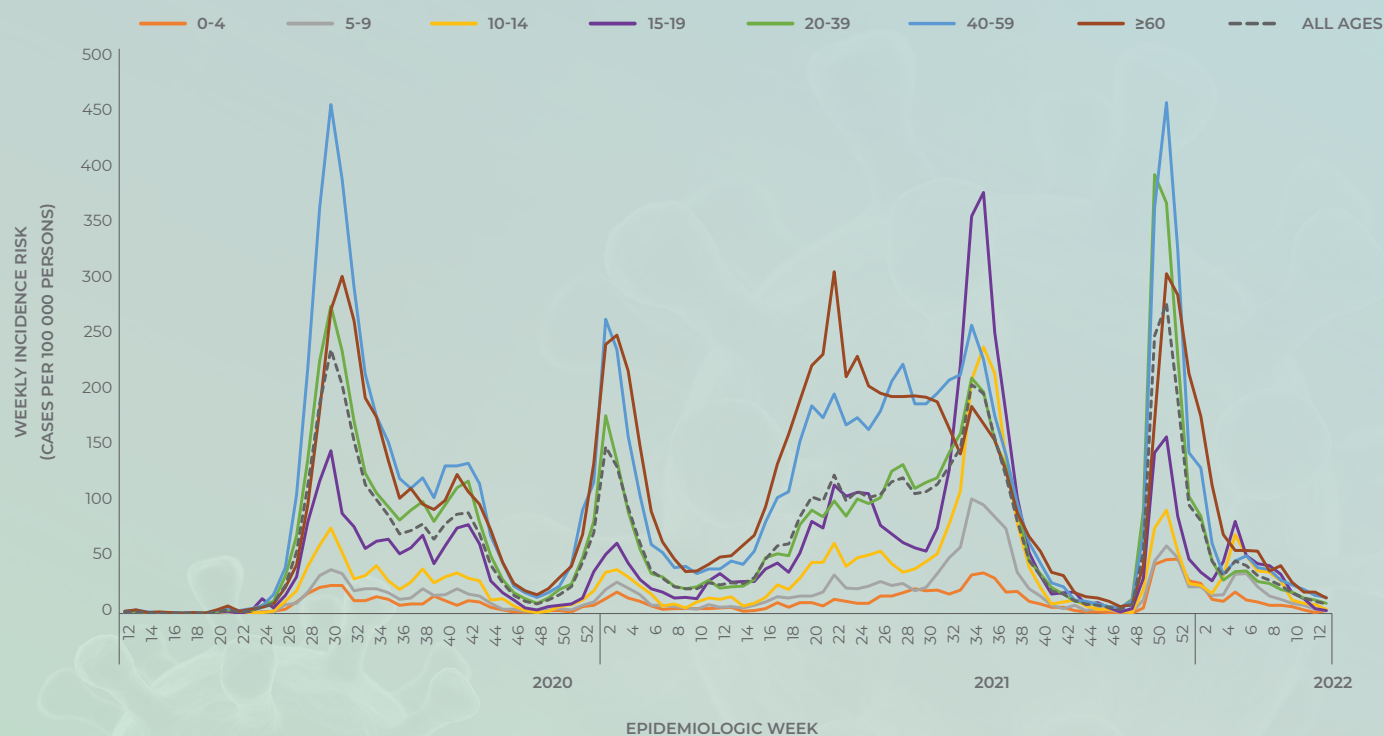


Figure 15. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Free State Province 3 March 2020 – 26 March 2022 (n = 201 393, 812 missing age)

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Limpopo Province

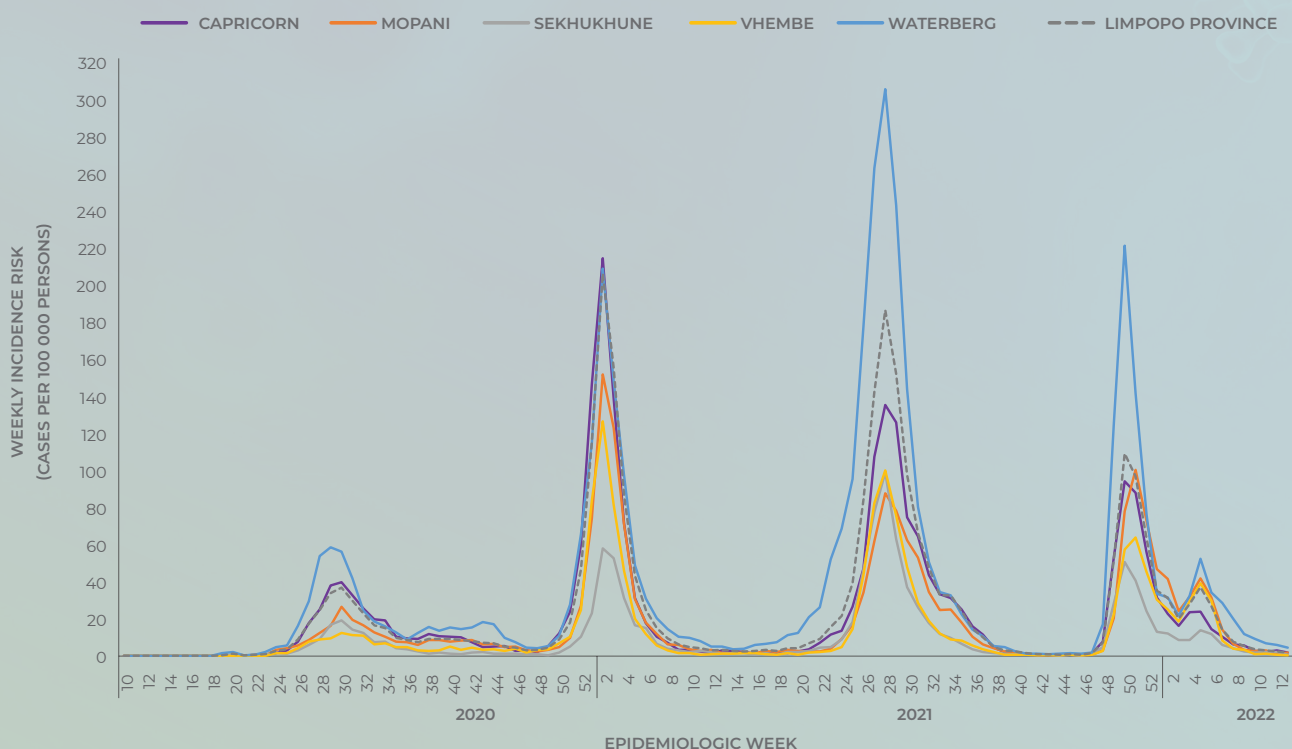


Figure 16. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Limpopo Province 3 March 2020 – 26 March 2022 (n = 115 711, 39 986 missing district)

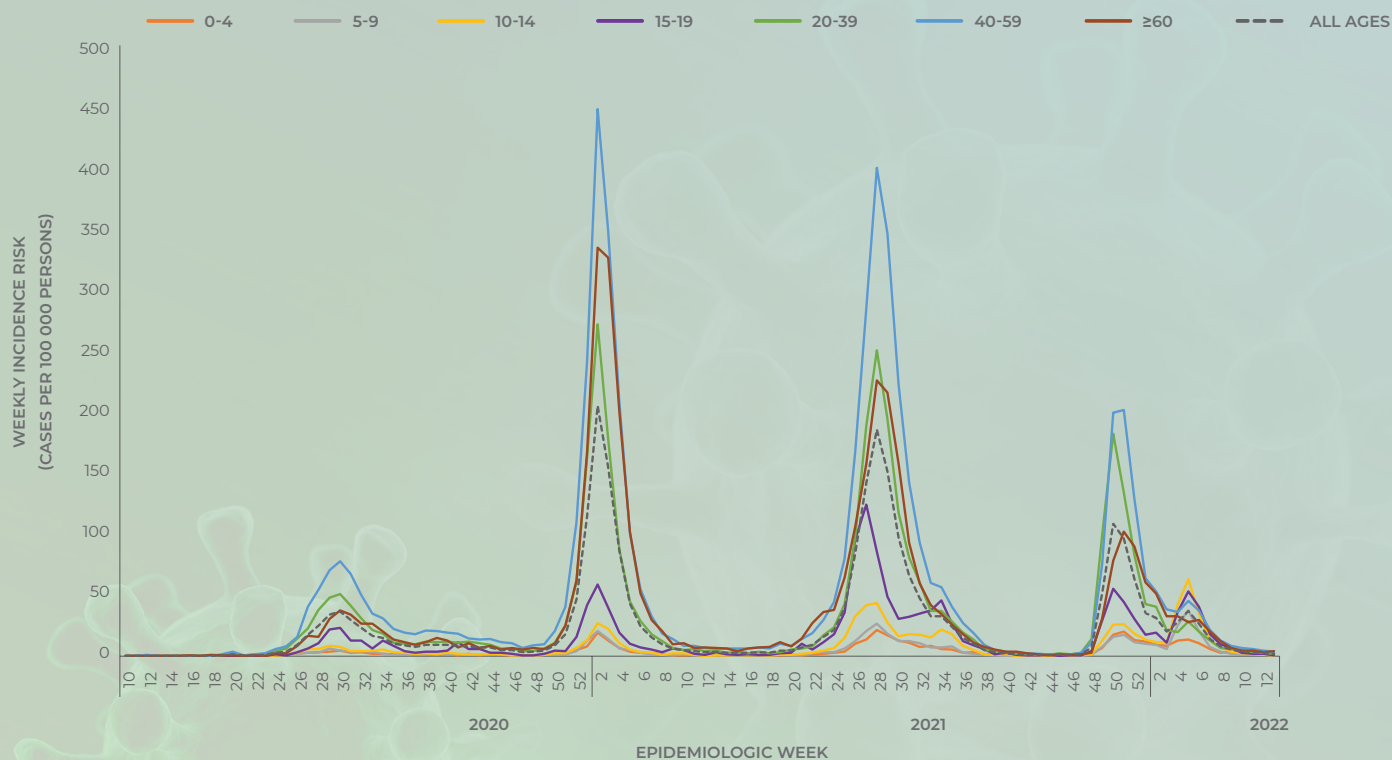


Figure 17. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Limpopo Province 3 March 2020 – 26 March 2022 (n = 154 987, 710 missing age)

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Mpumalanga Province

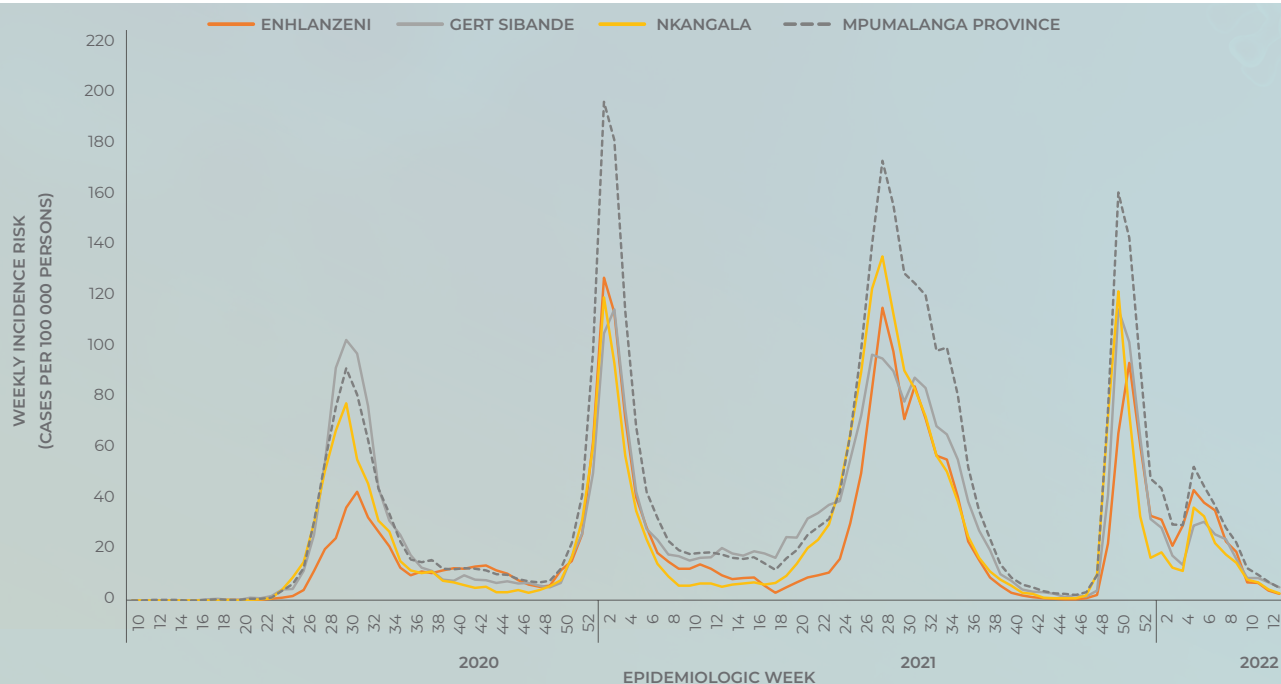


Figure 18. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Mpumalanga Province 3 March 2020 – 26 March 2022 (n = 126 116, 66 949 missing district)

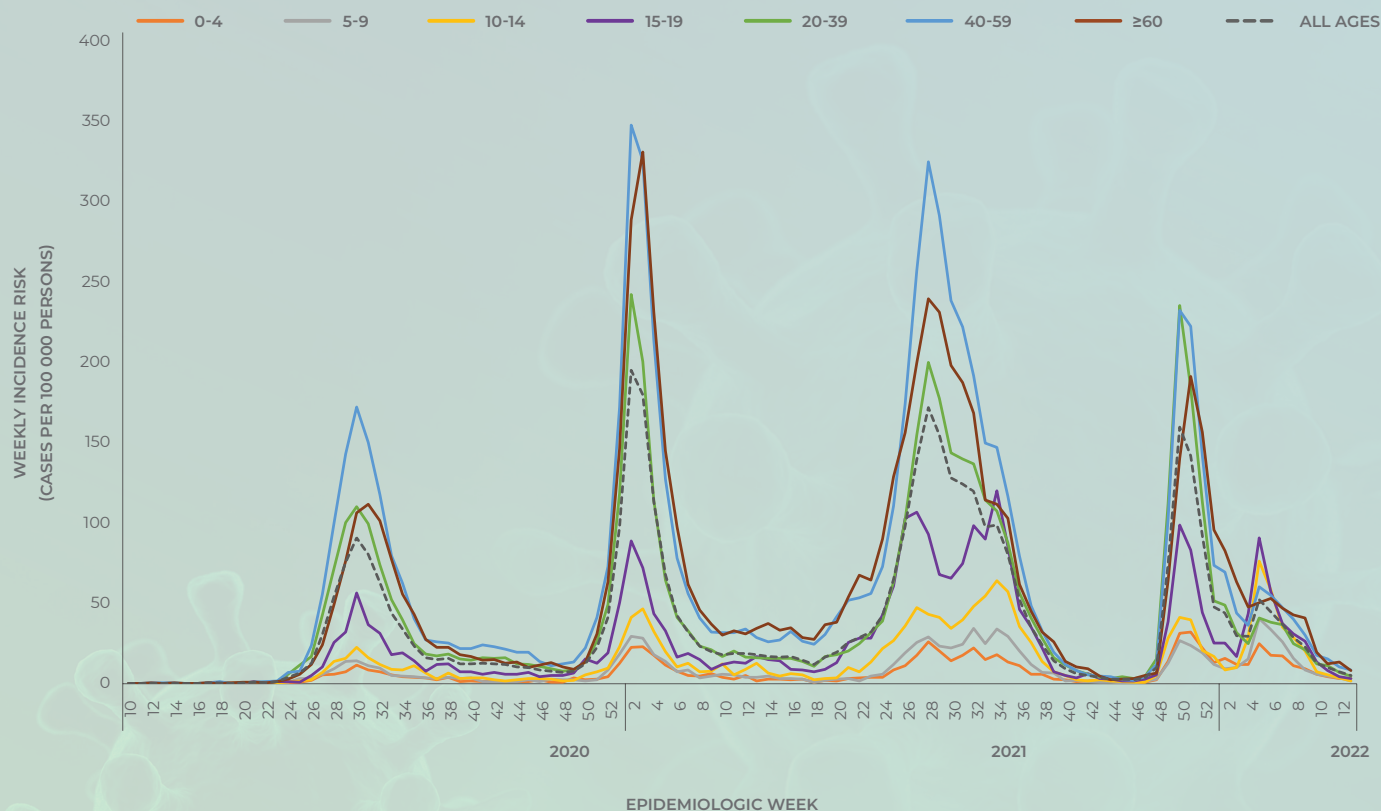


Figure 19. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group and epidemiologic week Mpumalanga Province 3 March 2020 – 26 March 2022 (n = 189 011, 4 054 missing age)

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North West Province

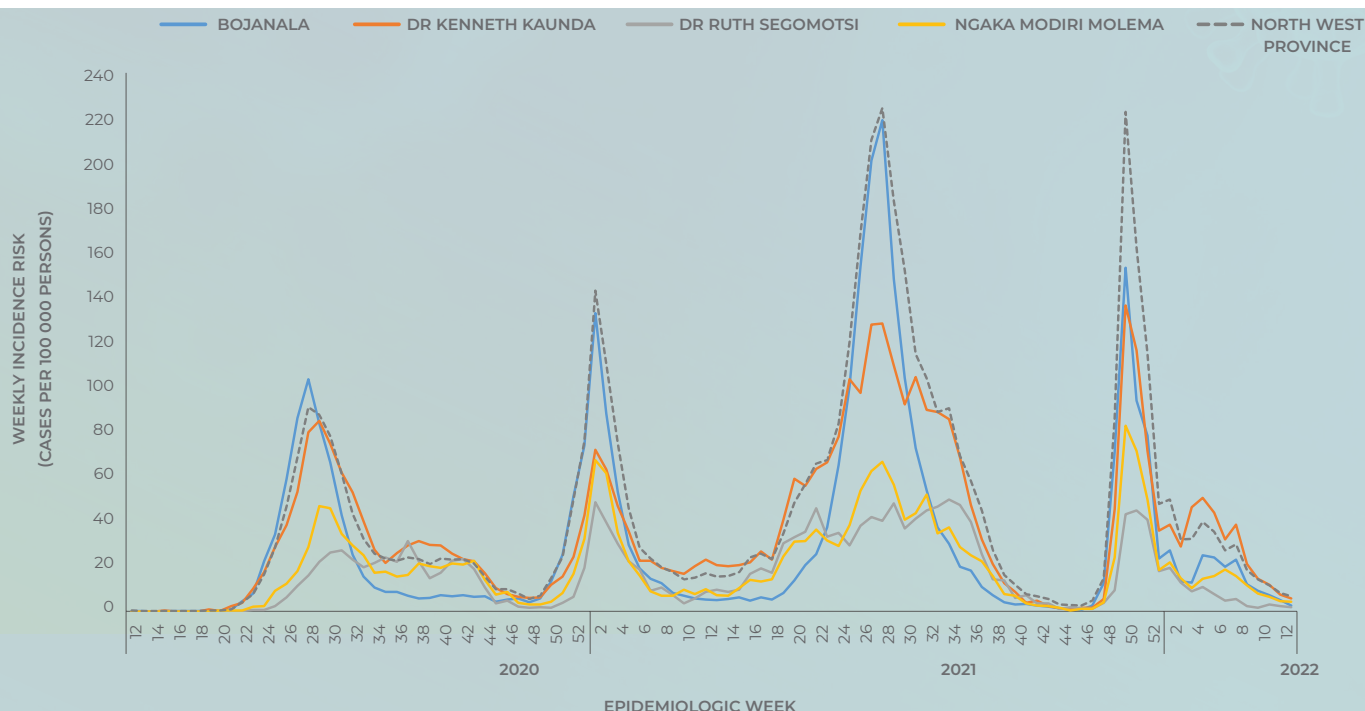


Figure 20. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week North West Province 3 March 2020 – 26 March 2022 (n = 119 838, 72 994 missing district)

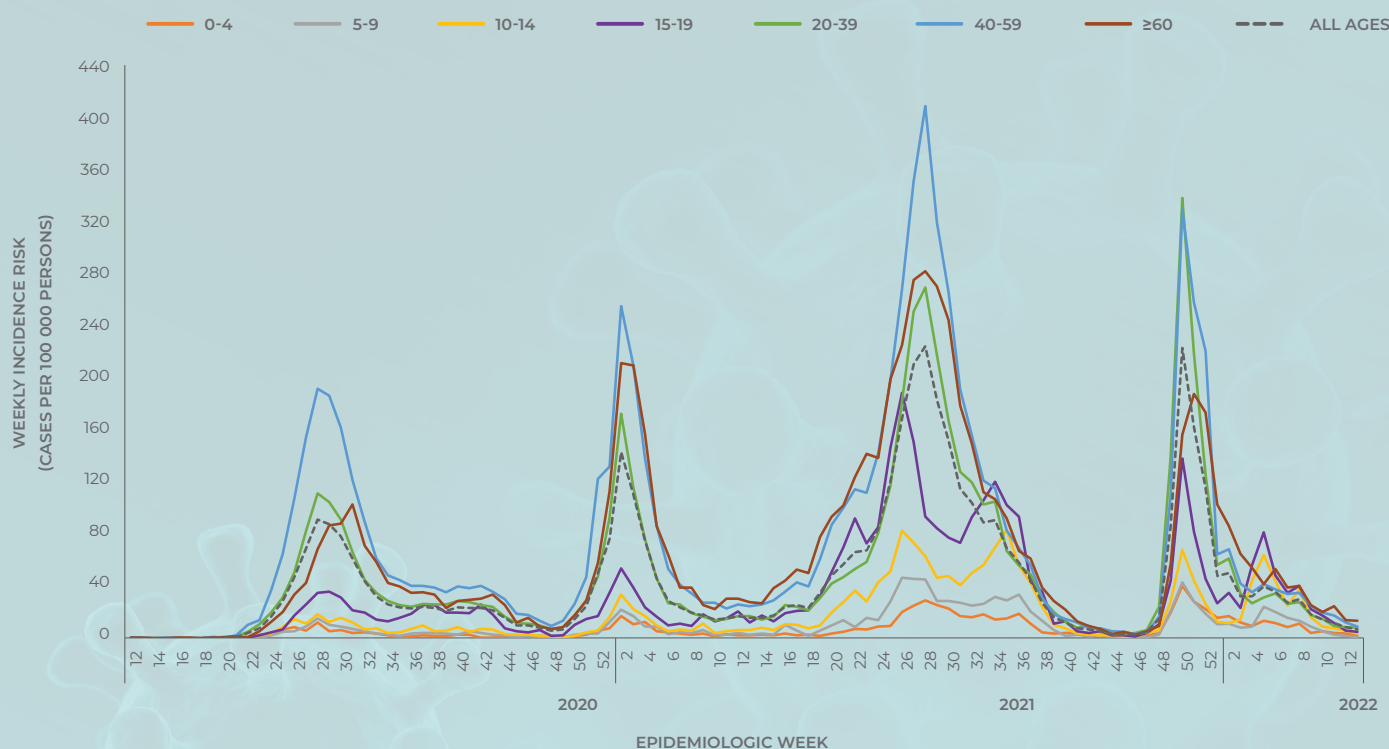


Figure 21. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week North West Province 3 March 2020 – 26 March 2022 (n = 190 352, 2 480 missing age)

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Northern Cape Province

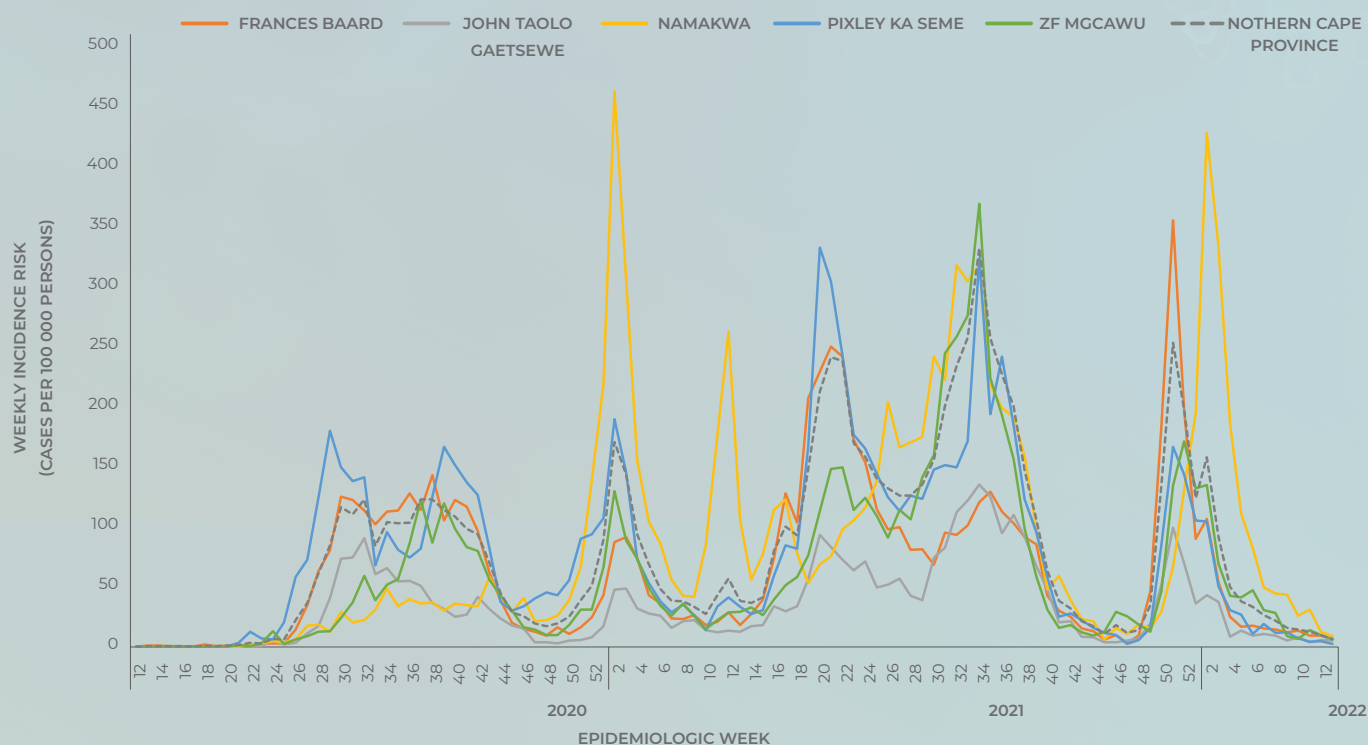


Figure 22. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week Northern Cape Province 3 March 2020 – 26 March 2022 (n = 83 300, 25 545 missing district)

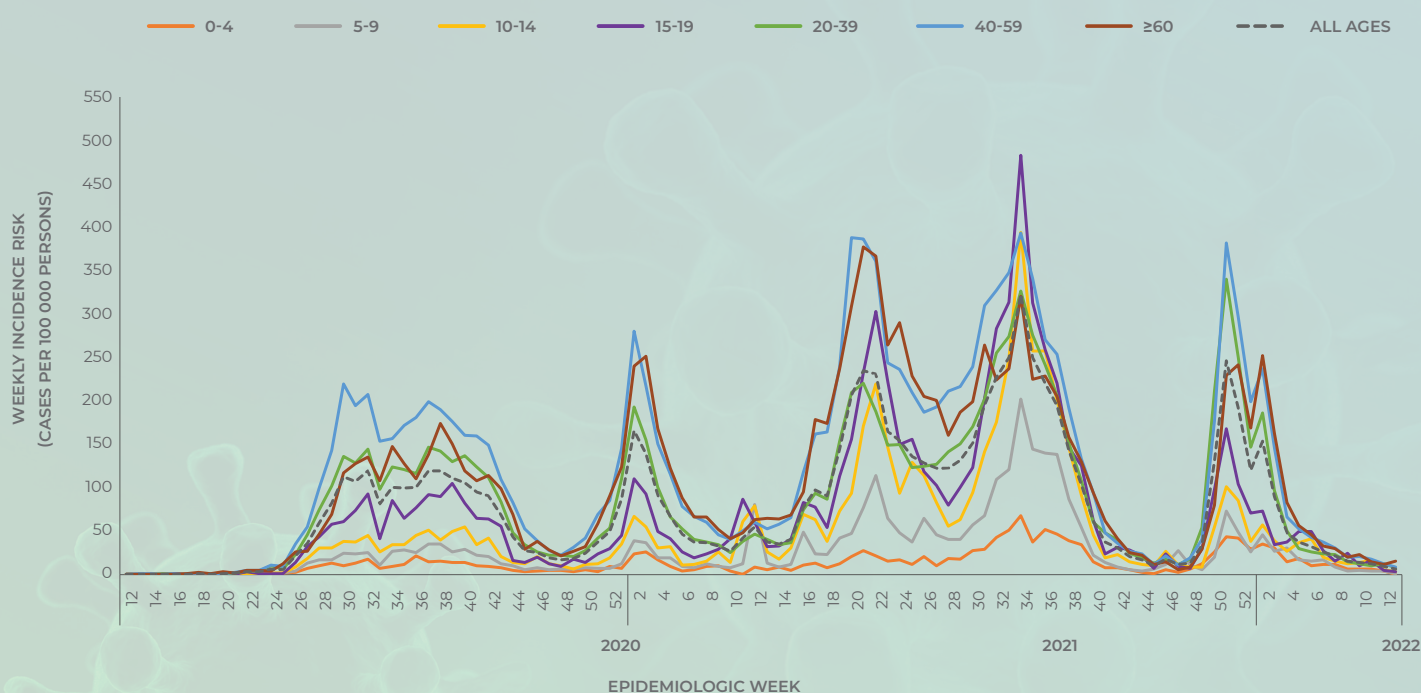


Figure 23 Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week Northern Cape Province 3 March 2020 – 26 March 2022 (n = 108 129, 716 missing age)

Methods

Testing for SARS-CoV-2 began on 28 January 2020 at the NICD and after the first case was confirmed in early March 2020, testing was expanded to a larger network of private and NHLS laboratories. Respiratory specimens were submitted from persons under investigation (PUI). Initially, tested individuals were those who had travelled to countries with COVID-19 transmission but the PUI definition was changed over time. Community symptom screening and referral for PCR testing was implemented in April 2020 but the strategy was changed to a more targeted approach in May 2020. Community screening was largely discontinued and testing efforts then focussed on areas identified as hot spots and on investigating clusters. Contacts of cases were traced and tested if symptomatic. In some provinces and certain circumstances (e.g. closed settings, workplaces), asymptomatic contacts were tested. In recent weeks, testing has been prioritised for healthcare workers and hospitalised patients. Laboratories used any one of several in-house and commercial PCR assays to test for the presence of SARS-CoV-2 RNA. Testing for SARS-CoV-2 using rapid antigen-based tests was implemented during November 2020. We excluded specimens collected outside South Africa. Date of specimen receipt in the laboratory was used when date of specimen collection was missing. A case of COVID-19 was defined as any person, resident in South Africa, with a single positive SARS-CoV-2 PCR or antigen test. For reports published from week 2 of 2022 onwards, we used 2021 mid-year population estimates to calculate incidence risk (cumulative and weekly incidence). For historical reports published from week 41 of 2020 to week 1 of 2022, 2020 mid-year population estimates were used, and reports published from epidemiologic week 10 (during the start of COVID-19 epidemic in South Africa) to week 40 of 2020, 2019 mid-year population estimates were used. Data on number of tests conducted in the past week as reported in the simultaneously-published COVID-19 weekly testing report was used to calculate tests conducted per 100 000 persons. Data on province and district allocation was based on geocoding algorithm using in order of priority (i) completeness of patient data, (ii) submitting doctor's address, (iii) registering doctor's address and as final option, (iv) the guarantor's address data. The geocoding algorithm used the most complete data for assigning data on province and district where adequate information was provided on the lab request form at the time of sample collection. Data on district allocation may lag resulting in number of cases in recent weeks missing district allocation. Prevalence and incidence risk by districts should be interpreted with caution.

Until the week 29 of 2020 report, new cases were defined as all cases reported since the last report, irrespective of when the sample was collected. Subsequent to the week 29 of 2020 report, new cases are now defined as cases detected in the past epidemiologic week based on date of sample collection or sample receipt. It is therefore possible for numbers reported as new cases for the current reporting week not to tally with total additional cases reported since the last report. This will be the case when there was a delay in reporting of cases.

Limitations

This report is based on laboratory-based surveillance of laboratory-confirmed cases. The number of reported cases is heavily dependent on testing practices. Although trends over time and comparisons by geographic area are presented in this report, changes in testing practices over time or differences by region may partially explain the results. Differences in health-seeking behaviour by age group and sex could also contribute to the observed differences in case numbers between groups. Delays in reporting may result in incomplete data for recent weeks, leading to an apparent reduction in number of cases. Changes in testing strategy during the different times of the epidemic may also affect the number of cases reported, leading to a decrease in number of positive cases if testing is only conducted for severe cases or certain risk groups.