

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

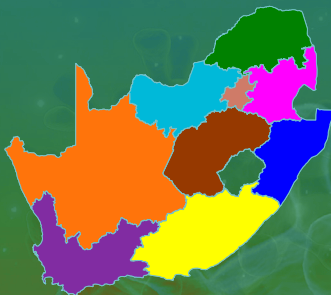


NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 4 2021

CUMULATIVE DATA FROM



CASES

1 453 761
IN TOTAL

27 402
THIS WEEK

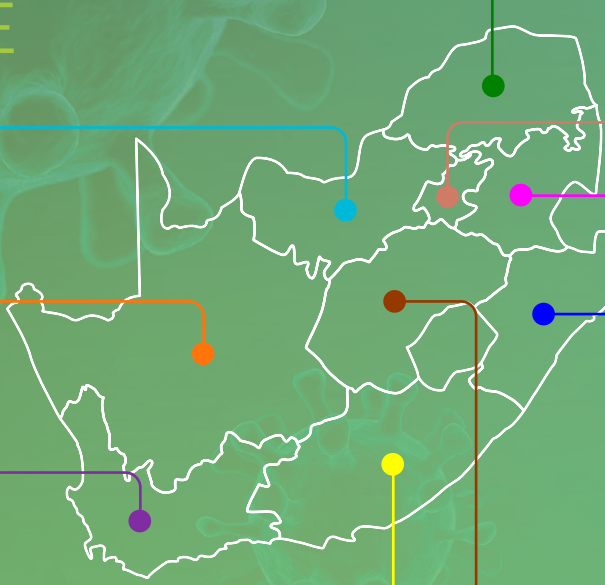


PERSONS

2 438,3
INCIDENCE RISK*

40
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 in South Africa. This report is based on data collected up to 30 January 2021 (week 4 of 2021). Note: COVID-19 is the name of the disease and SARS-CoV-2 is the name of the virus. 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. The numbers reported may change as more data become available.

Highlights

- As of 30 January 2021, a total of 1 453 761 laboratory-confirmed COVID-19 cases had been detected in South Africa. Of these, 40 775 were cases reported since the last report (week 3 of 2021). There was a 53.0% decrease in number of new cases detected in week 4 (27 402) compared to the number of new cases detected in week 3 (58 263), possibly related in part to delays in reporting.
- An additional 3 290 deaths were reported since the last report. The overall case-fatality ratio is 3.0% (44 164/1 453 761).
- In the past week, the KwaZulu-Natal Province reported the highest proportion of the new cases detected (7 078/27 402, 25.8%), followed by the Gauteng Province (6 486/27 402, 23.7%), and the Western Cape Province (3 957/27 402, 14.4%).
- In keeping with past two weeks, in the past week, all provinces reported a decrease in weekly incidence risk, compared to the previous week. The decrease in weekly incidence risk ranged from 23.0 cases per 100 000 persons (55.4% decrease) in the Eastern Cape Province to 79.7 cases per 100 000 persons (56.5% decrease) in the KwaZulu-Natal Province.
- In week 4 Northern Cape Province reported the highest weekly incidence risk (62.7 cases per 100 000 persons), followed by the KwaZulu-Natal Province (61.4 cases per 100 000 persons), the Western Cape Province (56.5 cases per 100 000 persons), and the Free State Province (52.3 cases per 100 000 persons).
- From week 3 of 2021 to date all districts in South Africa reported a decrease in weekly incidence risks.

INCIDENCE
RISK FOR
CURRENT WEEK

46,0

CASES PER
100 000
PERSONS

25,8%

OF CASES
REPORTED IN
KWAZULU-NATAL IN
CURRENT WEEK

IN CURRENT
WEEK, THE
HIGHEST
WEEKLY
INCIDENCE
RISK WAS IN
CASES AGED
80+ YEARS (131,3
CASES PER 100
000 PERSONS)

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 in 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 41 onwards we used mid-year population estimates from Statistics South Africa for 2020 to calculate the incidence risk (cumulative or weekly incidence), expressed as cases per 100 000 persons. In historical 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. Aggregate data on the number of deaths by province were obtained from the Department of Health. 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 population. 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. We estimated the time-varying (weekly) doubling time of

the COVID-19 epidemic for the provinces with sufficient data and from weeks with sufficient number of cases and complete data (week 12 to the week before the current reporting period). The unit of analysis (epidemiological week) was defined from Sunday to the following Saturday. We first estimated the weekly growth rate of the epidemic by fitting a linear regression model to the logarithm of the daily cumulative number of laboratory-confirmed COVID-19 cases. We then estimated the doubling time for each week using the following formula $\log(2)/gr$ (where gr is the estimated weekly growth rate). An increase in the doubling time may suggest a slowing of transmission but this may also be affected by changes in testing strategy or care seeking. Until the week 29 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 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.

National and provincial trends of COVID-19 cases in South Africa

As of 30 January 2021, a total of 1 453 761 laboratory-confirmed COVID-19 cases were reported in South Africa (Figures 1 and 2). This is 40 775 more cases than the number reported in the last report (week 3 of 2021 report). The number of new cases detected in week 4 (27 402) was lower than the number of new cases detected in week 3 (58 263), this represented a 53.0% decrease in the number of new cases compared to the previous week, possibly in part related to delays in reporting. In the past week, the KwaZulu-Natal Province reported the highest number of new cases (7 078/27 402, 25.8%), followed by the Gauteng Province (6 486/27 402, 23.7%), and the Western Cape Province (3 957/27 402, 14.4 %) (Table 1). Five provinces, Gauteng (388 620/1 453 761, 26.7%), KwaZulu-Natal (315 033/1 453 761, 21.7%), Western Cape (269 633/1 453 761, 18.5), Eastern Cape (191 997/1 453 761, 13.2%), and Free State (76 279/1 453 761, 5.2%) continued to report the majority (1 241 562/1 453 761, 85.4%) of total COVID-19 cases in South Africa. In keeping with the data reported in the previous weeks, there was minimal change in percent contribution of cases in the different provinces from week 3 to week 4 of 2021.

The cumulative incidence risk for the country increased from 2 392.3 cases per 100 000 persons in week 3 of 2021 to 2 438.3 cases per 100 000 persons in week 4. The cumulative incidence risk varied by province over time (Figure 3). This is partly explained by testing differences by province (Table 1). The Western Cape Province reported the highest cumulative incidence risk (3 848.7 cases per 100 000

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

persons), followed by the Eastern Cape Province (2 851.2 cases per 100 000 persons), the KwaZulu-Natal Province (2 731.9 cases per 100 000 persons), the Free State Province (2 604.4 cases per 100 000 persons), the Gauteng Province (2 509.1 cases per 100 000 persons), and the Northern Cape Province (2 476.0 cases per 100 000 persons). The other provinces continued to report cumulative incidence risk below 2 000 cases per 100 000 persons, with Limpopo Province reporting the lowest cumulative incidence risk (990.7 cases per 100 000 persons).

The Northern Cape Province reported the highest weekly incidence risk (62.7 cases per 100 000 persons) in week 4 of 2021, followed by the KwaZulu-Natal Province (61.4 cases per 100 000 persons), the Western Cape Province (56.5 cases per 100 000 persons), and Free State Province (52.3 cases per 100 000 persons). The weekly incidence risk in all the other provinces were below 50 cases per 100 000 persons. In the past week, all provinces reported a decrease in weekly incidence risk, compared to the previous week. The decrease in weekly incidence risk ranged from 23.0 cases per 100 000 persons (55.4% decrease) in the Eastern Cape Province to 79.7 cases per 100 000 persons (56.5% decrease) in the KwaZulu-Natal Province (Figure 4). Some of the reductions in week 4 weekly incidence risk could be as a result of reporting delays.

Since the peak of weekly incidence risk experienced at different levels and weeks by the different provinces in July (Western Cape and Eastern Cape peaked earlier in week 27 and Northern Cape peaked last in week 30), followed by a decline in number of cases in subsequent weeks, all provinces reported increases in number of cases from week 43, exceeding the peak in the first wave in all the provinces, except

Eastern Cape Province and Free State Province which continued to report weekly incidence risk below those reported during the first wave peaks (Figure 3). Weekly number of new cases has been declining since week 51 in the Eastern Cape Province and week 2 2021 in all the other provinces.

Among the five provinces reporting the majority of cases in South Africa to date, doubling time of number of cases varied with time. In week 3 of 2021, the estimated doubling time of number of cases increased in all provinces, Gauteng Province (from 60.1 days to 114.1 days, 89.8% increase), the Free State Province (from 81.8 days to 116.3 days, 42.1% increase), Eastern Cape Province (from 153.9 days to 297.3 days, 93.2% increase), Western Cape Province (from 80.1 days to 163.4 days, 104.0% increase), and the Kwazulu-Natal Province (from 48.8 days to 83.1 days, 70.3% increase) (Figure 5).

The case-fatality ratio (CFR) is 3.0% (44 164/1 453 761); an additional 3 290 deaths were reported since the last report. The number of deaths reported in the past week was lower than the number reported in the previous week, 3 290 compared to 3 769. A CFR calculated in this way (number of deaths/number of diagnosed cases) is subject to numerous limitations. Because deaths are delayed in relation to cases, as case numbers decrease rapidly, the crude CFR may increase as a result of a more rapid reduction in the denominator compared to the numerator. The CFR may be an underestimate as deaths in hospital are more likely to be reported than deaths out of hospital. In addition, occurrence and reporting of deaths may be delayed to several weeks after case diagnoses.

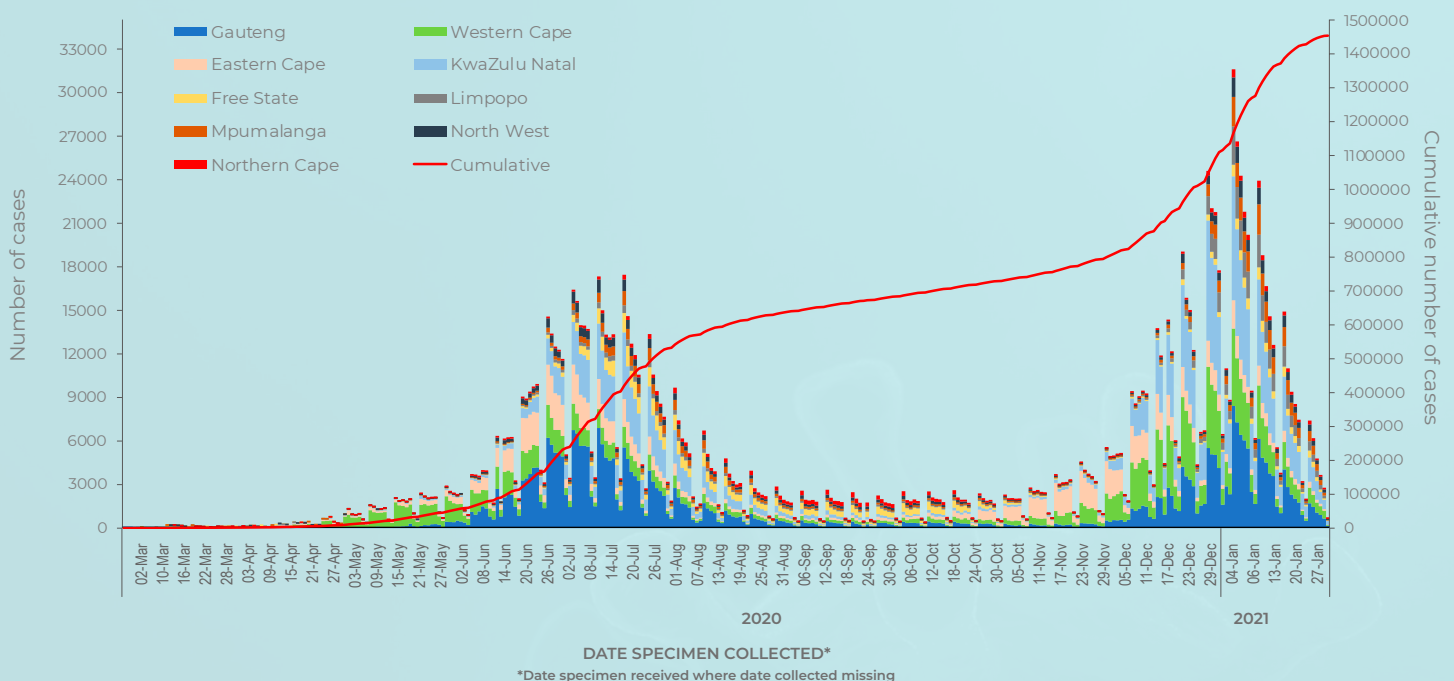


Figure 1. Number and cumulative number of laboratory-confirmed cases of COVID-19 by province and date of specimen collection, South Africa, 3 March 2020- 30 January 2021 (n=1 453 761)

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

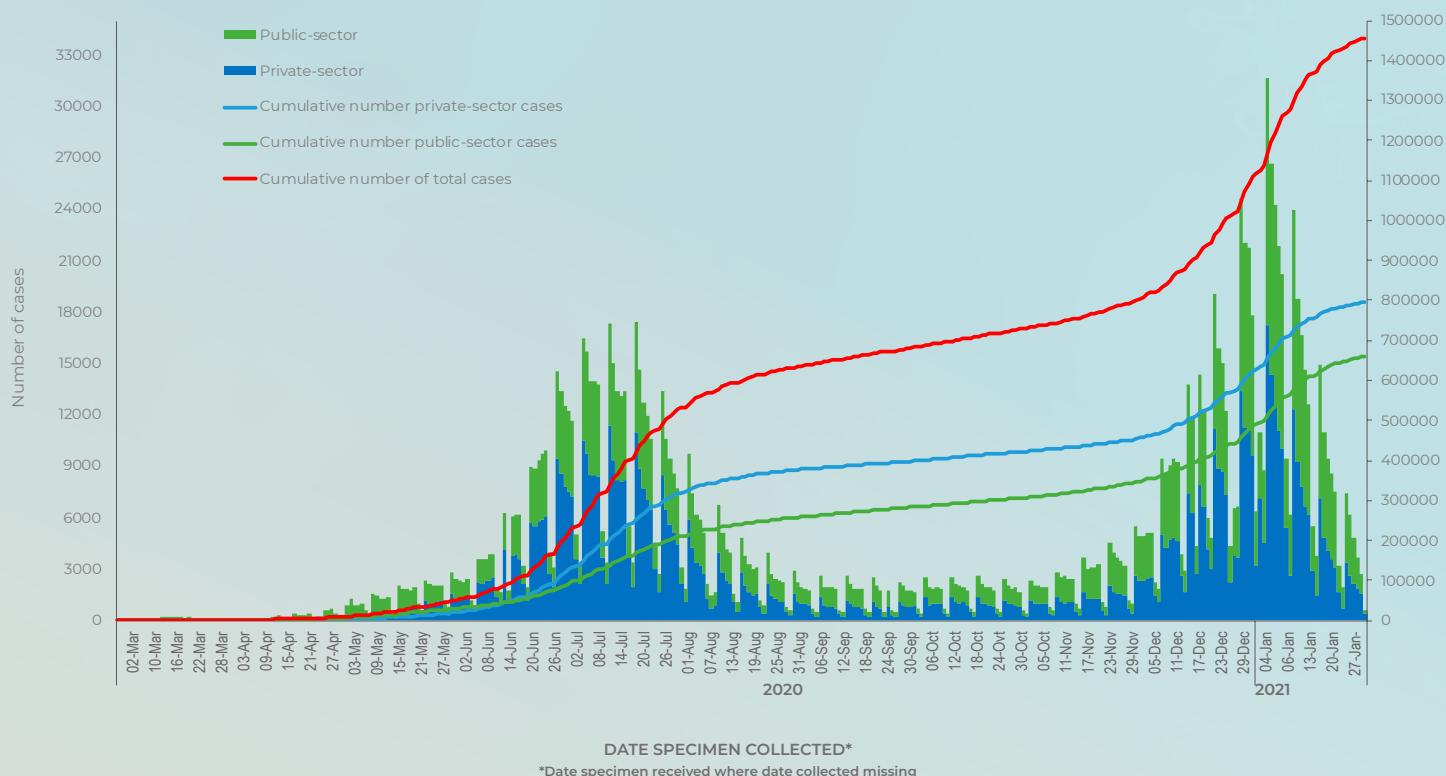


Figure 2. Number and cumulative number of laboratory-confirmed cases of COVID-19, by testing laboratory sector and date of specimen collection, South Africa, 3 March 2020-30 January 2021 (n=1 453 761)

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 2020-30 January 2021 (n=1 453 761)

Province	Cumulative cases (n) (percentage, n/ total cases in South Africa)	New cases ¹ detected in week 4 (24-30 January 2021), n (percentage ² , n/total)	Population in mid-2020 ³ , n	Cumulative incidence risk (cases per 100 000 persons)	Incidence risk of new cases detected in week 4 (cases/100 000 persons)	Tests ⁴ per 100 000 persons, 24-30 January 2021
Eastern Cape	191 997 (13.2)	1245 (4.5)	6 734 001	2 851.2	18.5	230.1
Free State	76 279 (5.2)	1531 (5.6)	2 928 903	2 604.4	52.3	378.6
Gauteng	388 620 (26.7)	6486 (23.7)	15 488 137	2 509.0	41.9	476.1
KwaZulu-Natal	315 033 (21.7)	7078 (25.8)	11 531 628	2 731.9	61.4	512.6
Limpopo	57 981 (4.0)	2191 (8.0)	5 852 553	990.7	37.4	144.6
Mpumalanga	65 054 (4.5)	2470 (9.0)	4 679 786	1 390.1	52.8	346.8
North West	57 154 (3.9)	1634 (6.0)	4 108 816	1 391.0	39.8	206.9
Northern Cape	32 010 (2.2)	810 (3.0)	1 292 786	2 467.0	62.7	467.1
Western Cape	269 633 (18.5)	3957 (14.4)	7 005 741	3 848.7	56.5	451.6
Unknown	0	0	0			
Total	1 453 761	27 402	59 622 350	2 438.3	46.0	386.3

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); ³2020 Mid-year population Statistics South Africa ⁴Data on number of tests conducted sourced from COVID-19 weekly testing report of the same reporting week

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

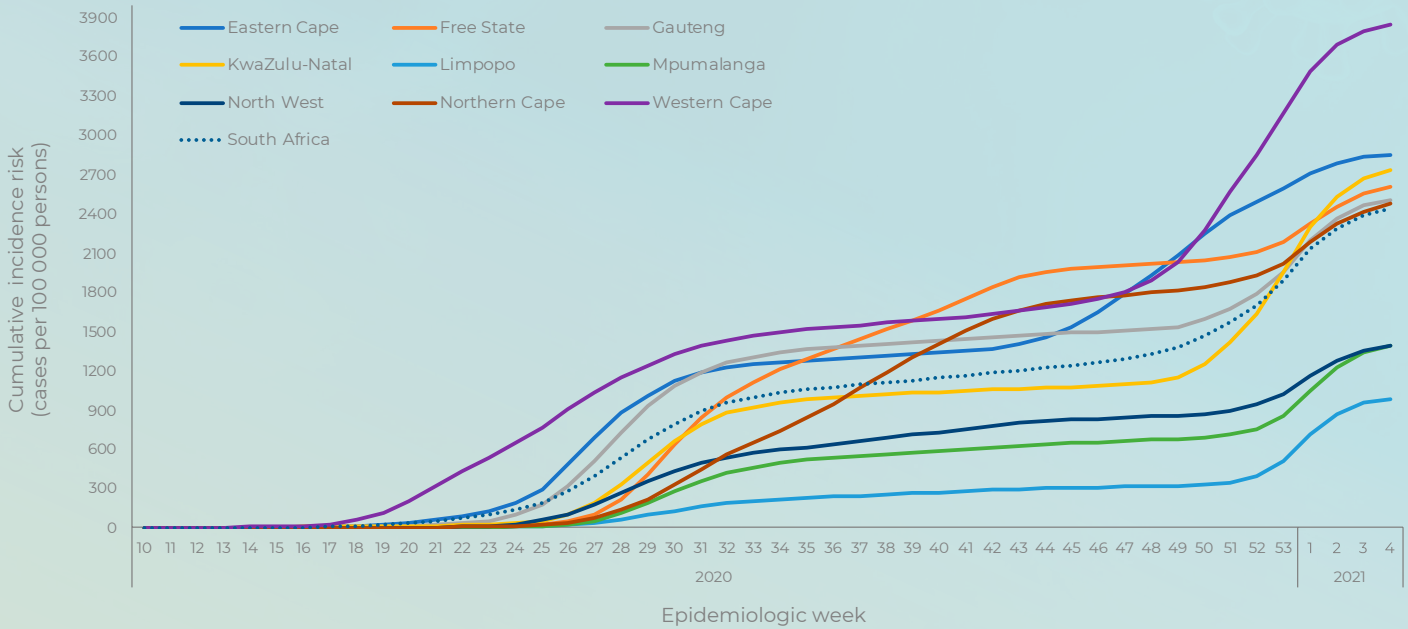


Figure 3. Cumulative incidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March 2020-30 January 2021 (n= 1 453 761)

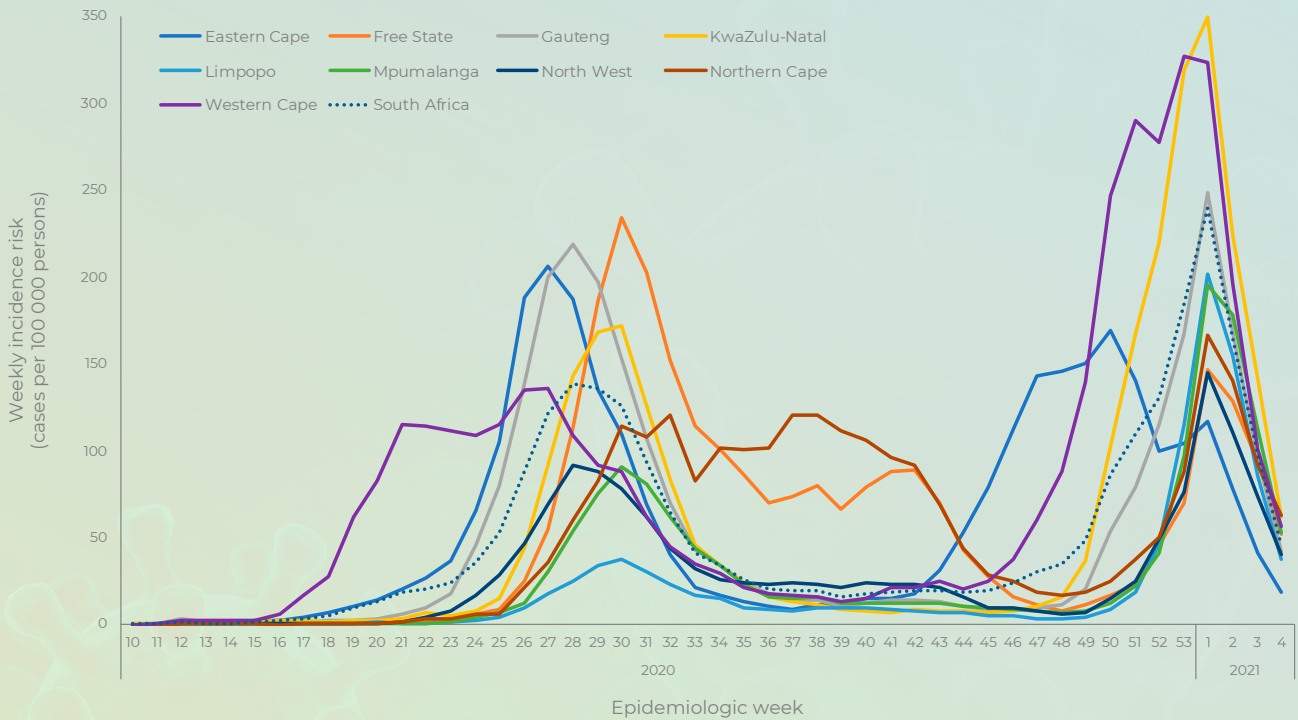


Figure 4. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March 2020- 30 January 2021 (n=1 453 761)

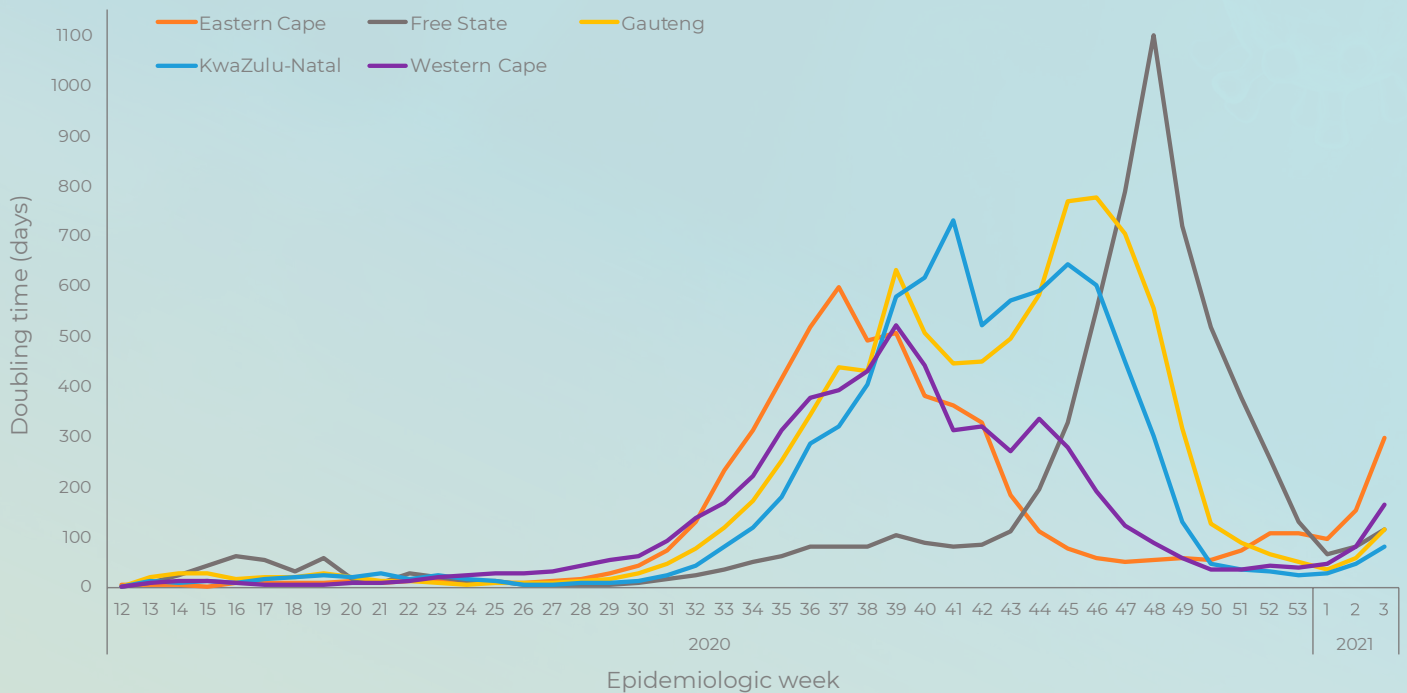


Figure 5. Doubling time of number of laboratory-confirmed cases of COVID-19 by province (for 5 provinces with the majority of cases) and epidemiologic week, South Africa, 23 March-2020- 23 January 2021 (n= 1 426 272)

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

Cases of COVID-19 were reported across all age groups. The median age of COVID-19 cases in South Africa to date was 40 years with an interquartile range (IQR) of 29-53 years. The distribution of cases varied by age, with highest number of all cases to date in the 35-39-year (172 086/1 440 842, 11.9%) and 30-34-year (167 304/1 440 842, 11.6%) age groups (Figure 6). Similarly, among the cases reported in the past week, the highest number of cases was in the 35-39-year-age group (2 788/27 036, 10.3%) followed by the 30-34-year age group (2 704/27 036, 10.0%). The median age for cases reported in week 4 was similar (43 years, IQR 31-57), to that of total cases (40 years). The highest cumulative incidence risk remained among cases aged 50-54 years (4 967.9 cases per 100 000 persons), followed by cases aged 55-59 years (4 892.0 cases per 100 000 persons) and 80+ years (4 721.3 cases per 100 000 persons). The lowest cumulative incidence risk was reported in the younger age-groups, 294.6 cases per 100 000 persons and 367.0 cases per 100 000 persons in the 0-4- and 5-9-year age groups, respectively (Figure 7 and Table 2). The highest weekly incidence risk among cases detected in week 4 of 2021 was reported in cases aged 80+ years (131.3 cases per 100 000 persons), followed by cases in the 60-64-year-age group (101.7 cases per 100 000 persons), 55-59-year-age group (101.4 cases per 100 000 persons), and the lowest weekly incidence risk

was in the 0-4-year age group (6.8 cases per 100 000 persons) (Figure 8 and table 2).

To date, the majority of COVID-19 cases reported were female 57.8% (831 905/1 438 239). This trend continued in the past week where 57.3% (15 493/27 060) of cases were female. The cumulative incidence risk has remained consistently higher among females (2 705.5 cases per 100 000 persons) than among males (2 065.2 cases per 100 000 persons) (Figure 9). The peak cumulative incidence risk was in the 50-54-year-age group (5 205.2 cases per 100 000 persons) for females, and in the ≥80-year-age group (4 903.6 cases per 100 000 persons) and 55-59-year-age group (4 737.6 cases per 100 000 persons) for males (Figure 10). In week 4, the highest weekly incidence risk for both females and males was in the ≥80-year-age group (132.2 cases per 100 000 persons), and (123.0 cases per 100 000 persons), respectively, this is similar to the previous week. The higher prevalence and incidence risk among females compared to males could be explained by the fact that females are likely to be more represented in occupations, which put them in close proximity to others and thus exposing them to a higher risk of infection (e.g. teaching and health). This may also be partly explained by varying testing practices by age and sex (data not shown) and by different health seeking behaviour.

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

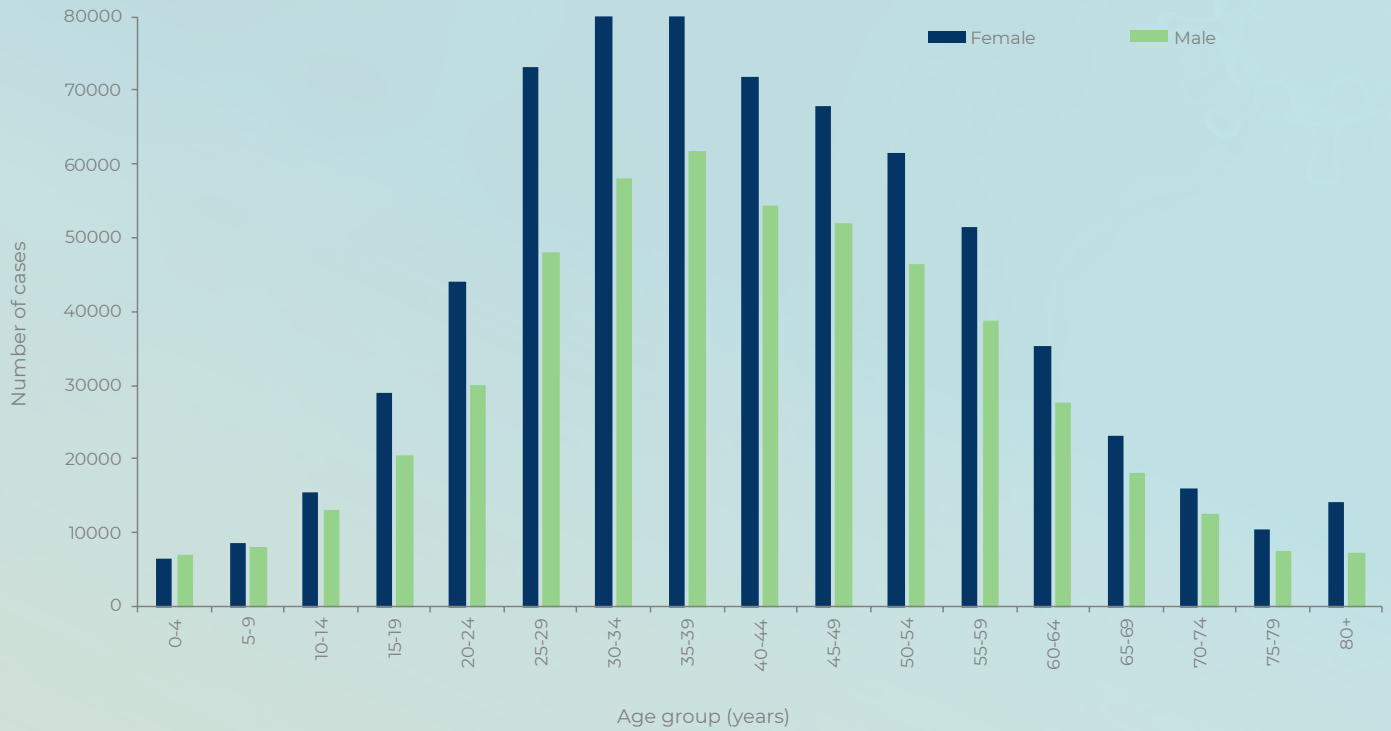


Figure 6. Number of laboratory-confirmed cases of COVID-19 by age group and sex, South Africa, 3 March 2020-30 January 2021 (n = 1 426 580, sex/age missing for 27 181)

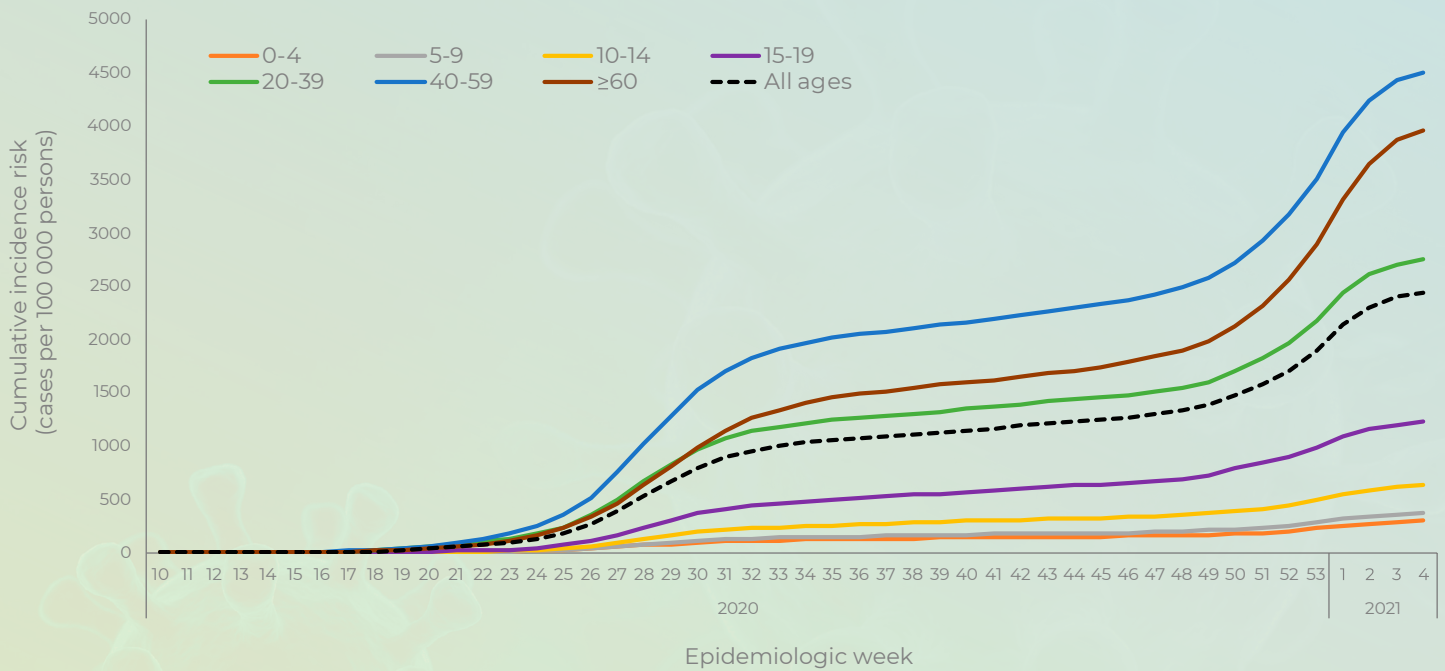


Figure 7. Cumulative incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, South Africa, 3 March 2020-30 January 2021 (n= 1 440 842, 12 919 missing age)

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

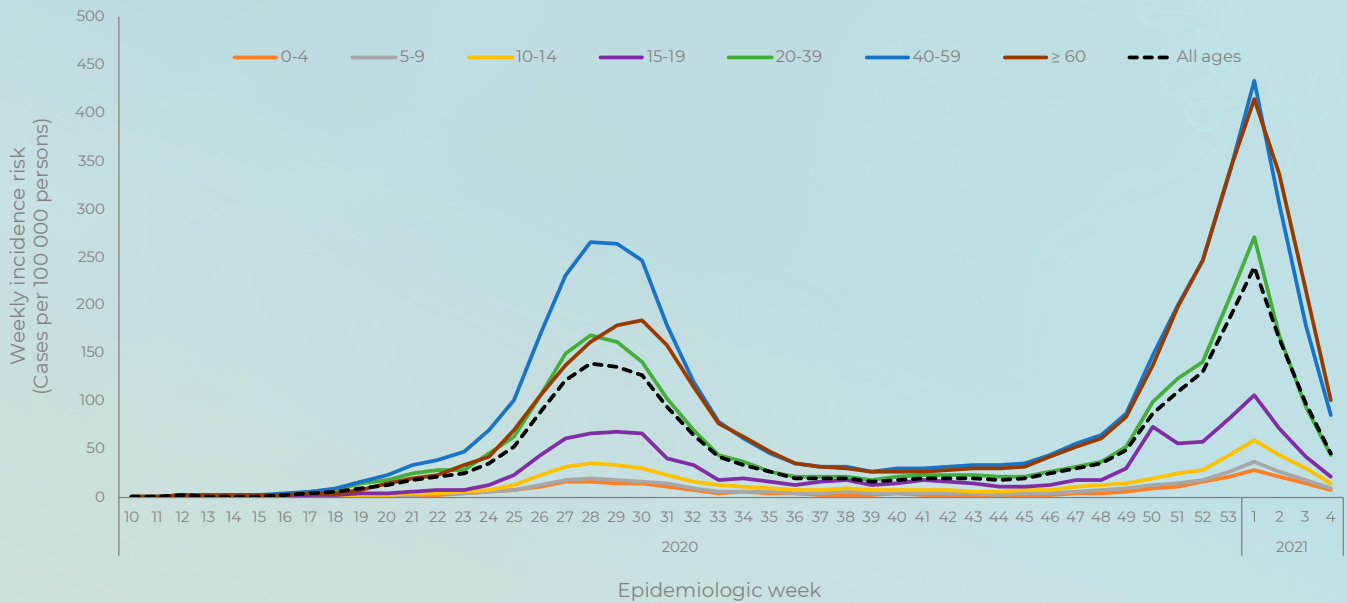


Figure 8. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, South Africa, 3 March 2020-30 January 2021 (n= 1 440 842, 12 919 missing age)

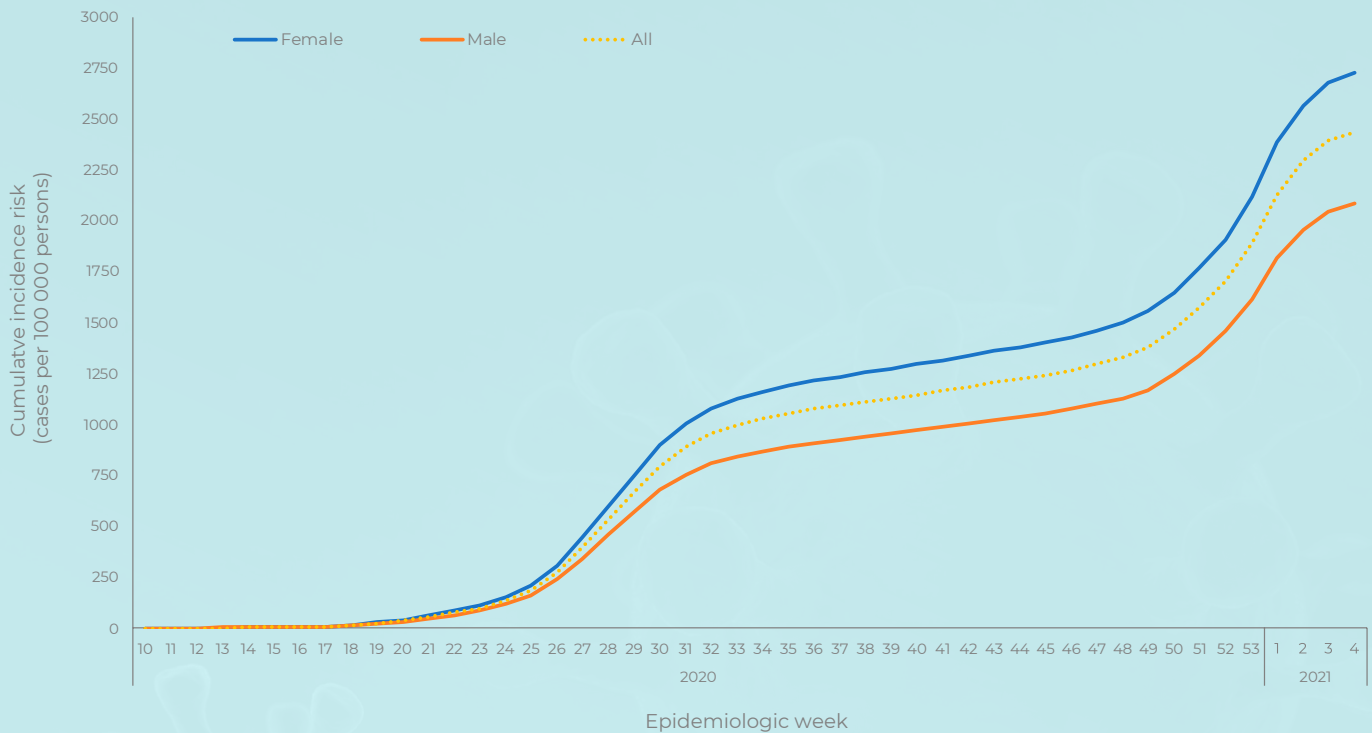


Figure 9. Cumulative incidence risk by sex and epidemiologic week, South Africa, 3 March 2020-30 January 2021 (n= 1 438 239, sex missing for 15 522)

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

Table 2. Number of laboratory-confirmed cases of COVID-19 and cumulative/weekly incidence risk by age group, South Africa, 3 March 2020- 30 January 2021 (n= 1 440 842, 12 919 missing age)

Age group (years)	Cumulative cases (n) (percentage, n/ total cases in South Africa)	New cases ¹ detected in week 4 (24-30 January 2021), n (percentage ² , n/ total)	Population in mid-2020 ³ , n	Cumulative incidence risk (cases per 100 000 persons)	Incidence risk of new cases detected in week 4 (cases/100 000 persons)
0-4	16 920 (1.2)	390 (1.4)	5743 450	294.6	6.8
5-9	20 980 (1.5)	480 (1.8)	5715 952	367.0	8.4
10-14	35 444 (2.5)	795 (2.9)	5591 553	633.9	14.2
15-19	58 375 (4.1)	988 (3.7)	4774 579	1 222.6	20.7
20-24	87 215 (6.1)	1 346 (5.0)	4823 367	1 808.2	27.9
25-29	141 356 (9.8)	2 120 (7.8)	5420 754	2 607.7	39.1
30-34	167 304 (11.6)	2 704 (10.0)	5641 750	2 965.5	47.9
35-39	172 086 (11.9)	2 788 (10.3)	4798 293	3 586.4	58.1
40-44	148 989 (10.3)	2 620 (9.7)	3733 942	3 990.1	70.2
45-49	141 346 (9.8)	2 584 (9.6)	3169 648	4 459.4	81.5
50-54	127 739 (8.9)	2 498 (9.2)	2571 263	4 967.9	97.2
55-59	108 177 (7.5)	2 242 (8.3)	2211 309	4 892.0	101.4
60-64	77 252 (5.4)	1 827 (6.8)	1796 316	4 300.6	101.7
65-69	51 389 (3.6)	1 351 (5.0)	1408 665	3 648.1	95.9
70-74	36 292 (2.5)	970 (3.6)	1007 174	3 603.3	96.3
75-79	22 723 (1.6)	575 (2.1)	637 062	3 566.8	90.3
≥80	27 255 (1.9)	758 (2.8)	577 273	4 721.3	131.3
Unknown	12 919	366			
Total	1 453 761	27 402	59 622 350	2 438.3	46.0

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); ³2020 Mid-year population Statistics South Africa

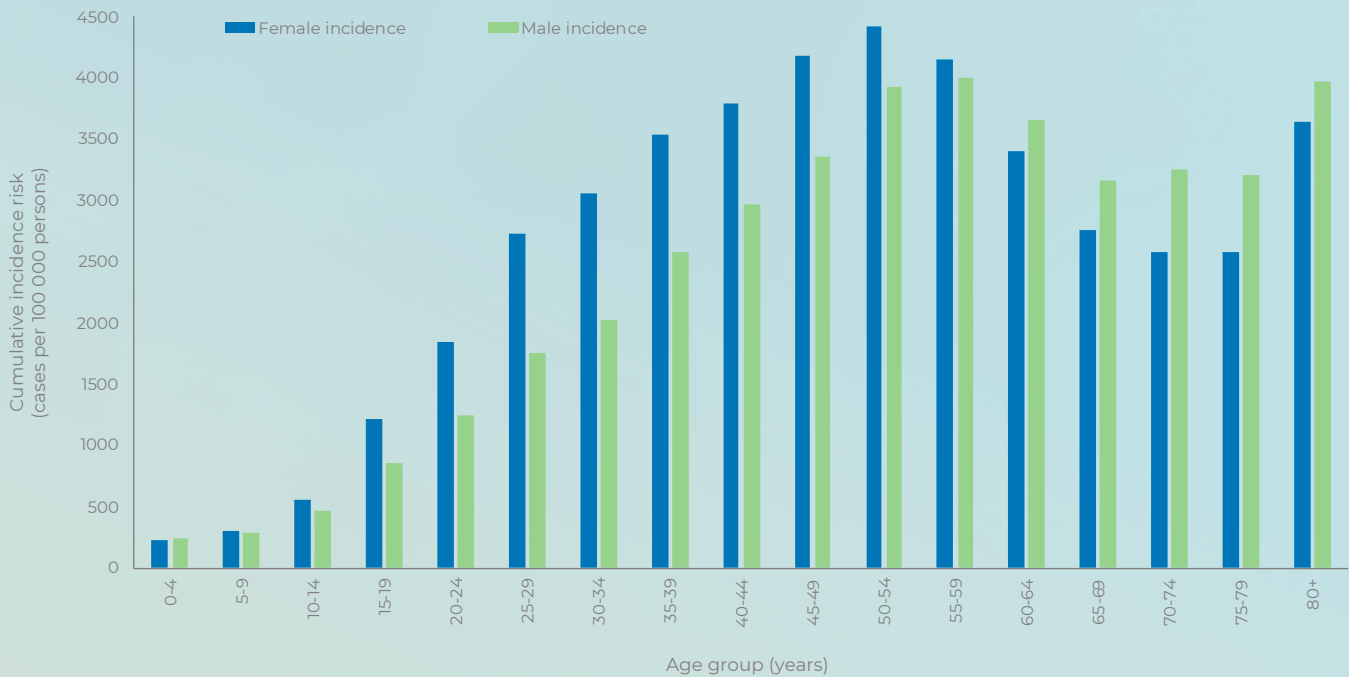


Figure 10. Cumulative incidence risk by age group and sex, South Africa, 3 March 2020- 30 January 2021 (n= 1 426 580, sex/age missing for 27 181)

Provincial trends of COVID-19 cases

In the final weeks of 2020, the majority of provinces (excluding Eastern Cape where numbers had been dropping since week 51) reported an increase in the number of new cases and weekly incidence risks. However, from week 1 of 2021 in the majority of provinces, the magnitude of increase in numbers had slowed or numbers were going down, with all provinces reporting a decline in numbers in week 2 to date. Trends by district and age group for each province are presented below.

Eastern Cape Province

Of the 191 997 cases reported from the Eastern Cape Province, 170 381 (88.7%) cases had allocation by district. The Nelson Mandela Bay Metro (46 941/170 381, 27.6%) followed by the Buffalo City Metro (30 897/170 381, 18.1%) contributed the majority of cases from the Eastern Cape. In week 4, the Joe Gqabi (40.9 cases per 100 000 persons), followed by the Chris Hani (22.8 cases per 100 000 persons) districts reported the highest

weekly incidence risk (Figure 11). All districts reported a declining trend in numbers since week 2.

The majority of cases from the Eastern Cape Province were in the 40-59-year old age group (69 140/190 002, 36.4%), followed by the 20-39-year age group (65 314/190 002, 34.4%) and by the ≥60 -year age group (33 804/190 002, 17.8%). In the past week, the ≥60-year age group (55.0 cases per 100 000 persons), followed by 40-59-year age group (32.1 cases per 100 000 persons) reported the highest weekly incidence risk. The weekly incidence risk in all other age groups was below 15 cases per 100 000 persons. In the past three weeks, all age groups reported a decrease in weekly incidence risk (Figure 12). From week 47 to week 2, ≥60-year-age group reported a higher weekly incidence risk compared to the peak in the first wave in week 28, whereas the other age groups continued reporting weekly incidence risks below those reported in the first wave.

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

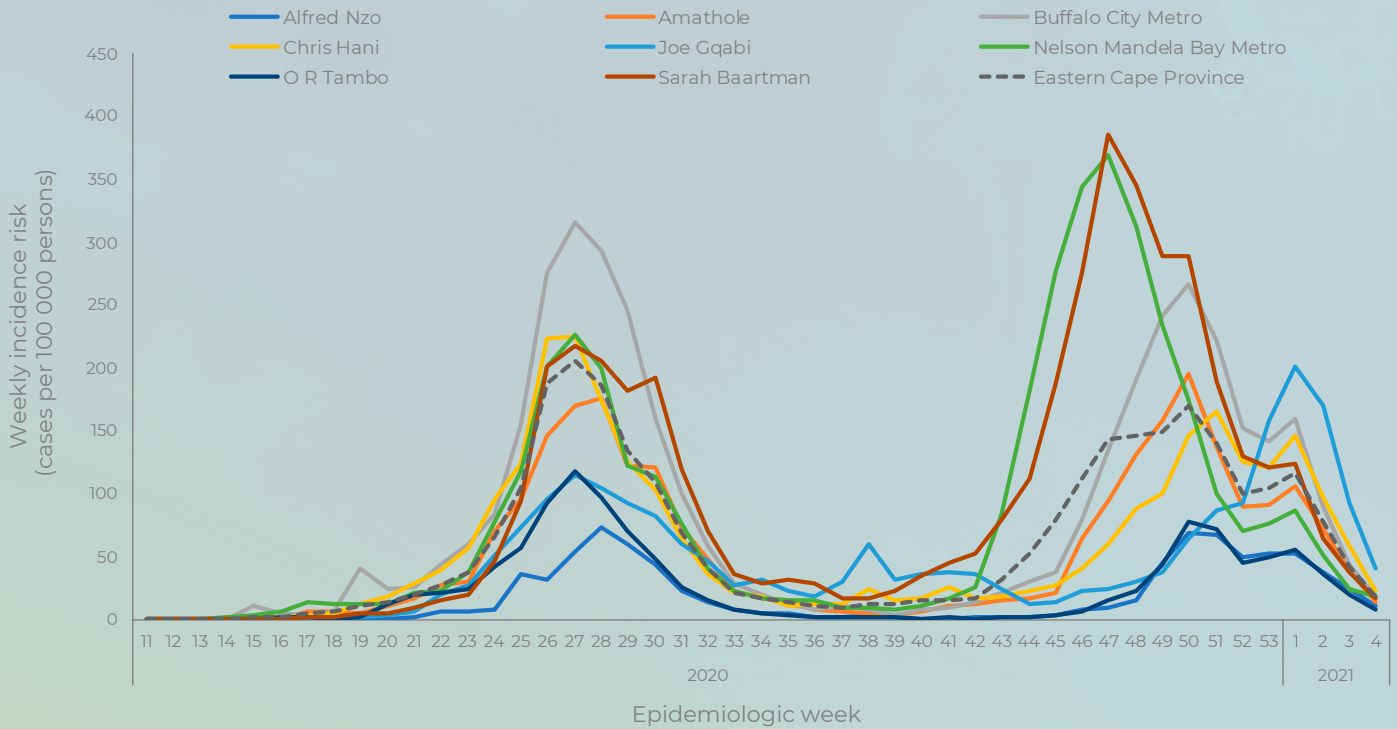


Figure 11. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Eastern Cape Province, 3 March 2020- 30 January 2021 (n= 170 381, 21 616 missing district)

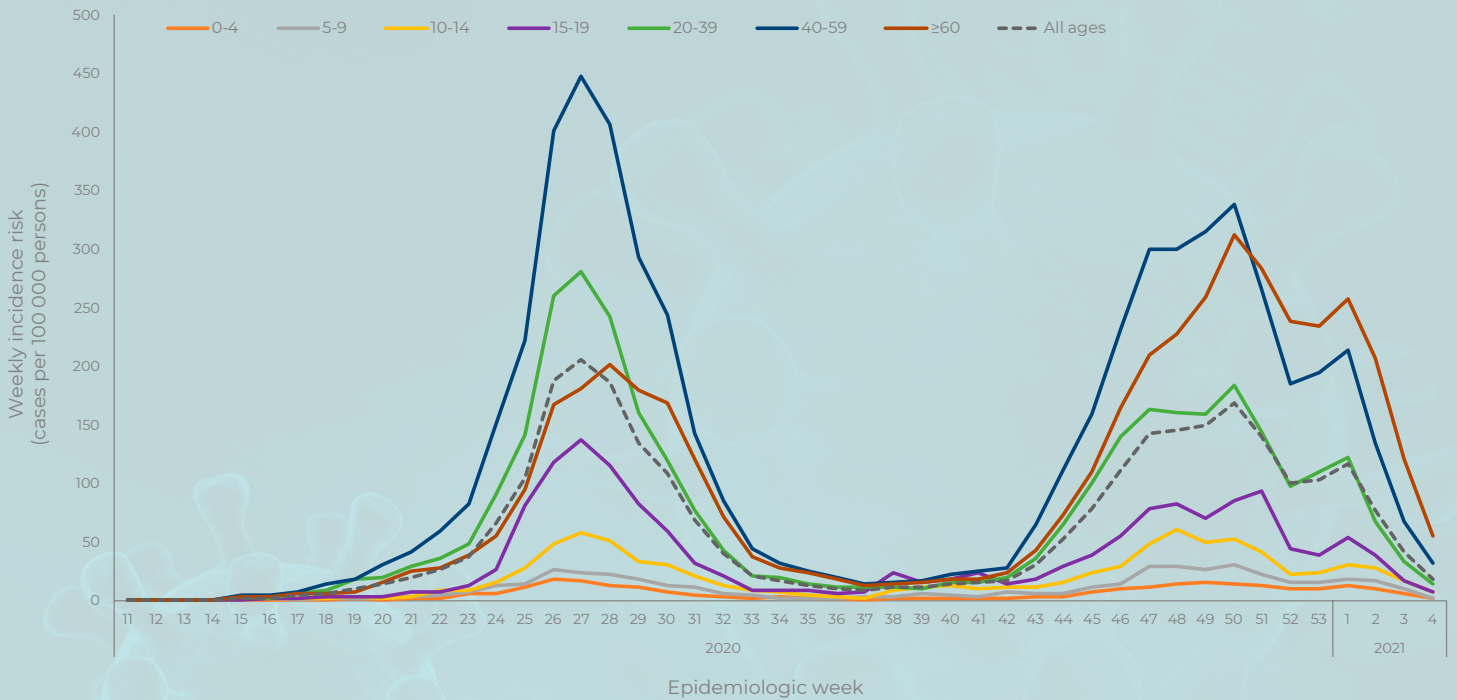


Figure 12. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Eastern Cape Province, 3 March 2020 – 30 January 2021 (n= 190 002, 1 995 missing age)

Western Cape Province

Of the 269 633 cases reported from the Western Cape Province, 251 976 (93.5%) cases had allocation by district. The City of Cape Town District (166 715/251 976, 66.2%) followed by the Cape Winelands District (30 863/251 976, 12.3%), and the Garden Route District (28 524/251 976, 11.3%) contributed the majority of cases, all other districts contributed <10% each. In the past week, the West Coast (90.7 cases per 100 000 persons) followed by the Overberg (70.7 cases per 100 000 persons) districts reported the highest weekly incidence risk (Figure 13). The increasing trend in weekly incidence risk reported from the different districts during the second wave varied by district, with all the districts reporting the highest weekly incidence risks from week 50 to week 2, higher than the peaks in the first wave. Number of cases have been decreasing since week 51 in some districts, with all districts reporting a decrease in numbers since

week 2.

The majority of cases from the Western Cape Province were in the 20-39-year old age group (106 878/268 702, 39.8%), followed by the 40-59-year age group (100 670/268 702, 37.5%). In the past week, the ≥60-year age group (213.5 cases per 100 000 persons), followed by 40-59-year age group (170.7 cases per 100 000 persons), and 20-39-year age group (98.8 cases per 100 000 persons) reported the highest weekly incidence risk. The weekly incidence risk in all other age groups remained below 15 cases per 100 000 persons. In the past three weeks, all age groups reported a decrease in weekly incidence risk (Figure 14). From week 51 to week 3, all age groups reported the highest weekly incidence risks compared to the peaks in the first wave in different weeks.

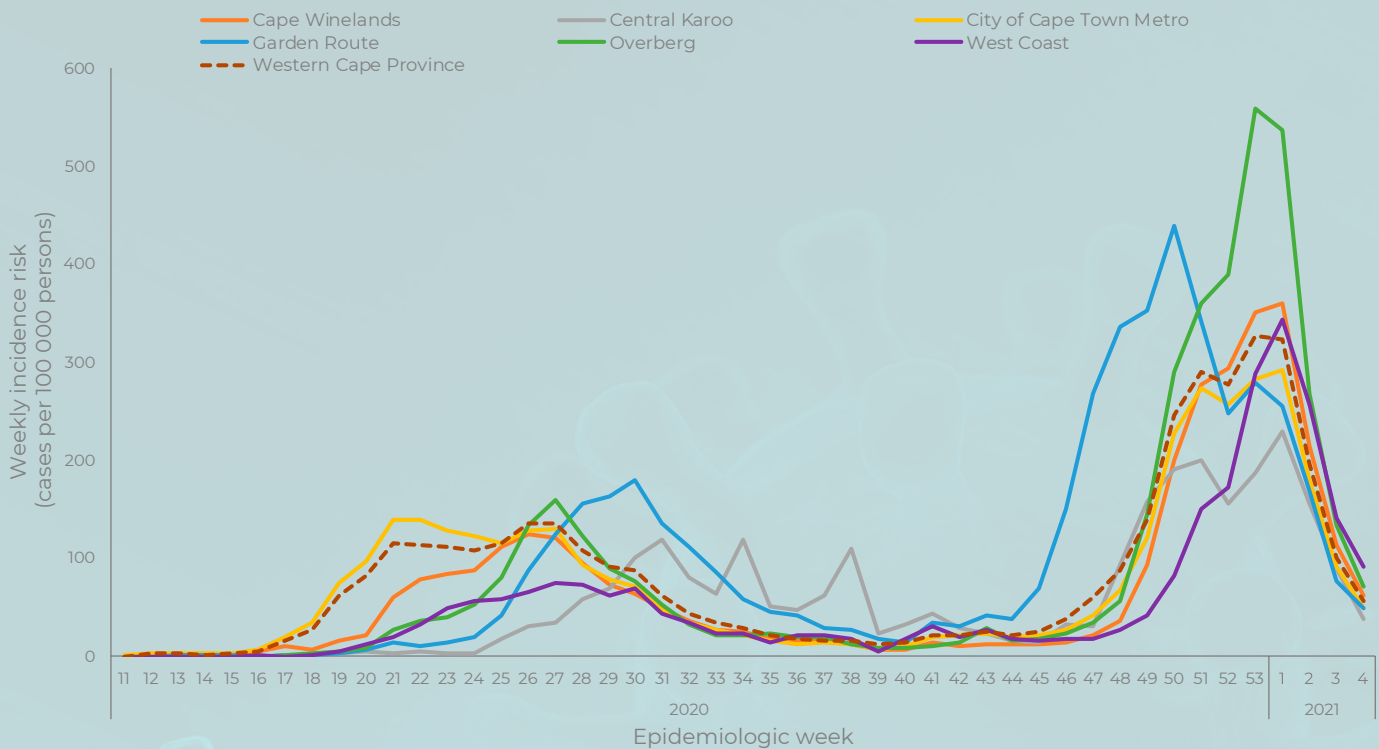


Figure 13. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Western Cape Province, 3 March 2020 - 30 January 2021 (n= 251 976, 17 657 missing district)

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

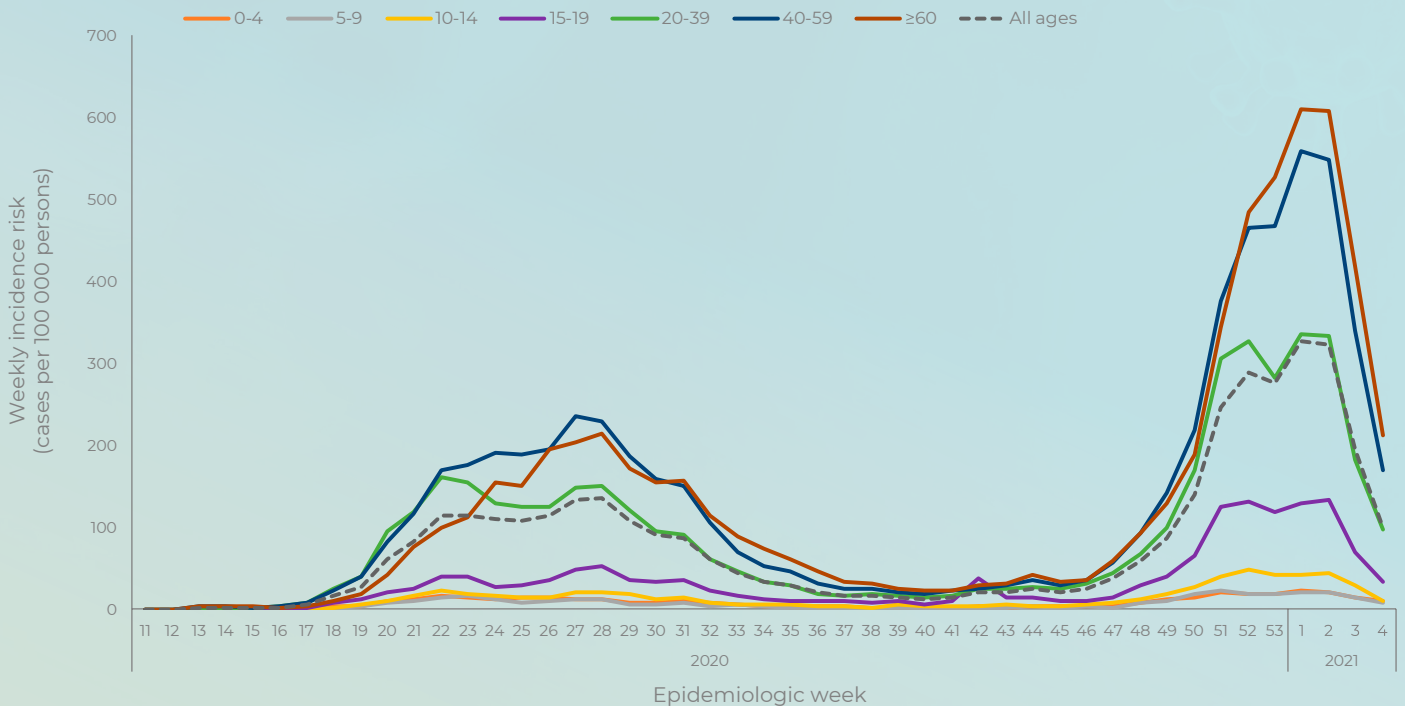


Figure 14. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Western Cape Province, 3 March 2020- 30 January 2021 (n= 268 702, 931 missing age)

Gauteng Province

Of the 388 620 cases reported from the Gauteng Province, 339 732 (87.4%) had allocation by district. The City of Johannesburg Metro (129 956/339 732, 38.3 %), followed by the City of Tshwane Metro (92 061/339 732, 27.1%), and the Ekurhuleni Metro (71 122/339 732, 20.9%) contributed the majority of cases, all other districts contributed below 15% each. In week 4, the City of Tshwane (44.5 cases per 100 000 persons) and the West Rand District (44.2 cases per 100 000 persons) reported the highest weekly incidence risk. All the districts reported an increase in number of new cases and weekly incidence risk from week 48 to week 1 which remained below that reported during the first peak, except the City of Tshwane Metro and Ekurhuleni District which

reported a higher weekly incidence in week 1 compared to the first wave peak in week 29 (Figure 15). From week 1 2021, numbers reported have been decreasing.

The majority of cases from Gauteng Province were in the 20-39-year-age group (164 328/384 408, 42.7%), followed by 40-59-year-age group (141 048/384 408, 36.7%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 16).

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

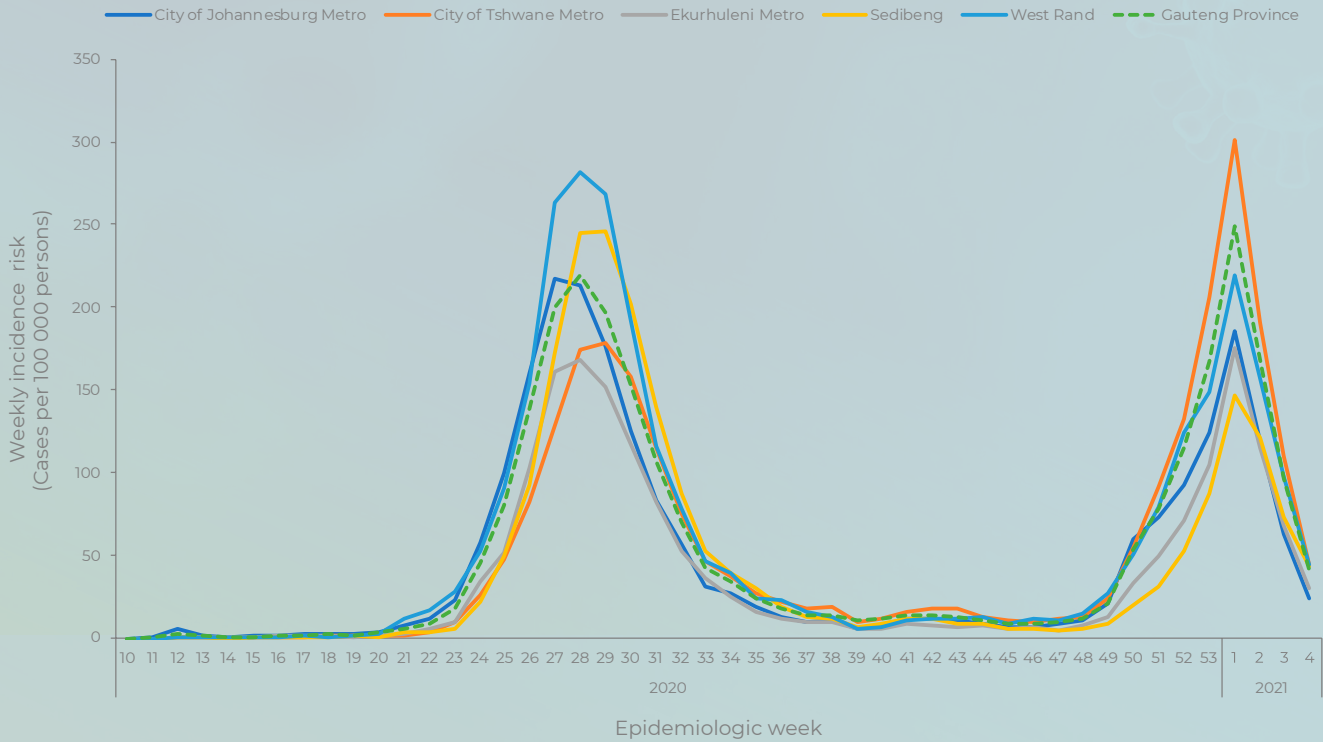


Figure 15. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Gauteng Province, 3 March 2020- 30 January 2021 (n= 339 732 159, 48 888 missing district)

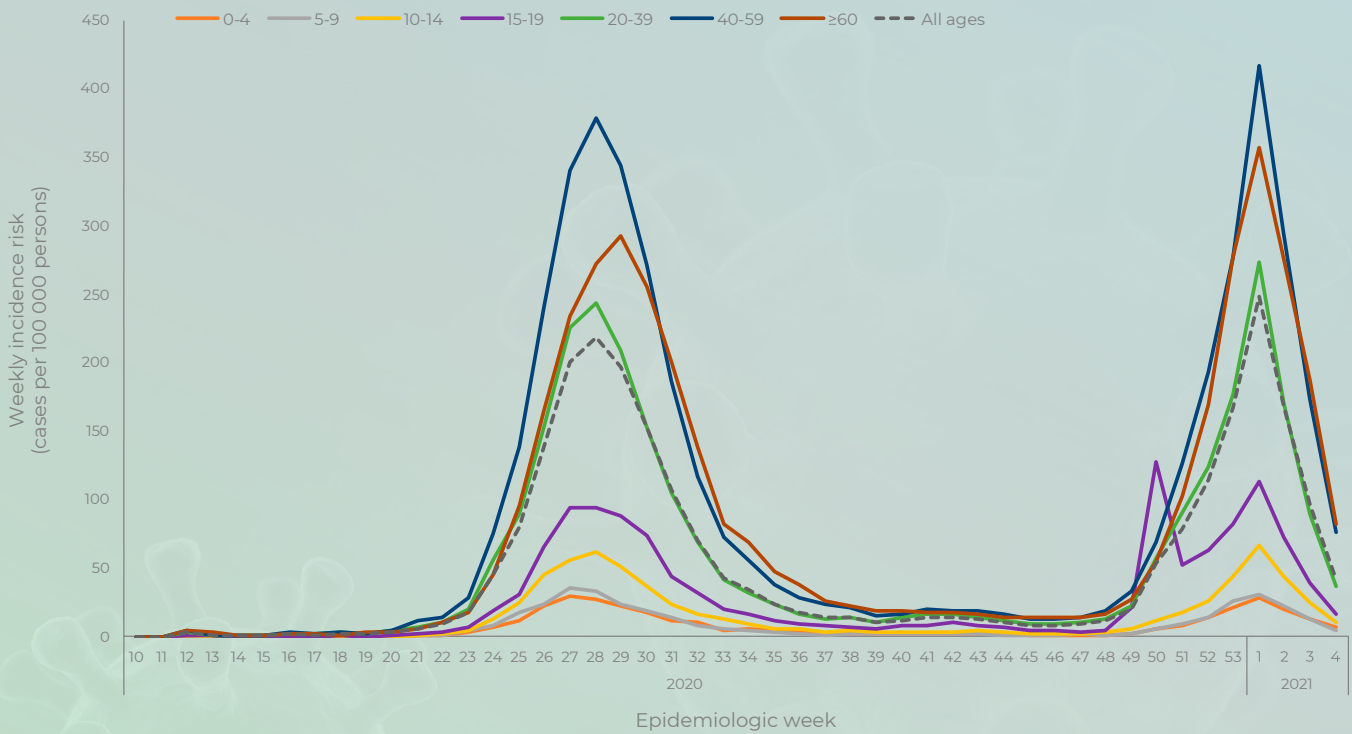


Figure 16. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Gauteng Province, 3 March 2020-30 January 2021 (n= 384 408, 4 212 missing age).

KwaZulu-Natal Province

Of the 315 033 cases reported from KwaZulu-Natal Province, 237 329 (75.3%) had allocation by district. The eThekweni Metro (119 833/237 329, 50.5%) followed by uMgungundlovu Metro (25 186/237 329, 10.6%) contributed the majority of cases. In week 4, King Cetshwayo (53.1 cases per 100 000 persons), followed by eThekweni Metro (51.7 cases per 100 000 persons) and uMgungundlovu (50.5 cases per 100 000 persons) districts reported the highest weekly incidence risk. In the past three weeks, all districts reported a decrease in weekly incidence risk. The decrease in week 4 incidence is possibly due to reporting delays.

Following the decline in number of cases after the first wave, an increasing trend in weekly incidence risk which varied by districts, had been reported since week 48. During this period, all the districts reported weekly incidence risks higher than those reported in the first peaks; eThekweni Metro (380.8 vs 165.8 cases per 100 000 persons), iLembe (169.2 cases vs 96.2 per 100 000 persons), Harry Gwala (156.2 vs. 85.2 cases per 100 000 persons), King Cetshwayo (267.9 vs 121.9 cases

per 100 000 persons), Ugu (182.0 vs 107.0 cases per 100 000 persons), uThukela (217.9 vs 94.5 cases per 100 000 persons), uMkhanyakude (116.0 vs 61.7 cases per 100 000 persons), uMzinyathi (146.4 vs 94.3 cases per 100 000 persons), uMgungundlovu (258.6 vs 183.7 cases per 100 000 persons), and Zululand (140.4 vs 99.9 cases per 100 000 persons), except Amajuba District which continued to report weekly incidence risk below the first wave peaks (Figure 17). In the past 3 weeks, all districts reported a decrease in weekly incidence risk.

The majority of cases from KwaZulu-Natal Province were in the 20-39-year-age group (119 736/311 854, 38.4%), followed by 40-59-year-age group (107 993/311 854, 34.6%). In week 52 to week 53, all age groups reported weekly incidence risks higher than those reported in the first wave peaks. From week 2 to date, all age groups reported a decrease in weekly incidence risk (Figure 18).

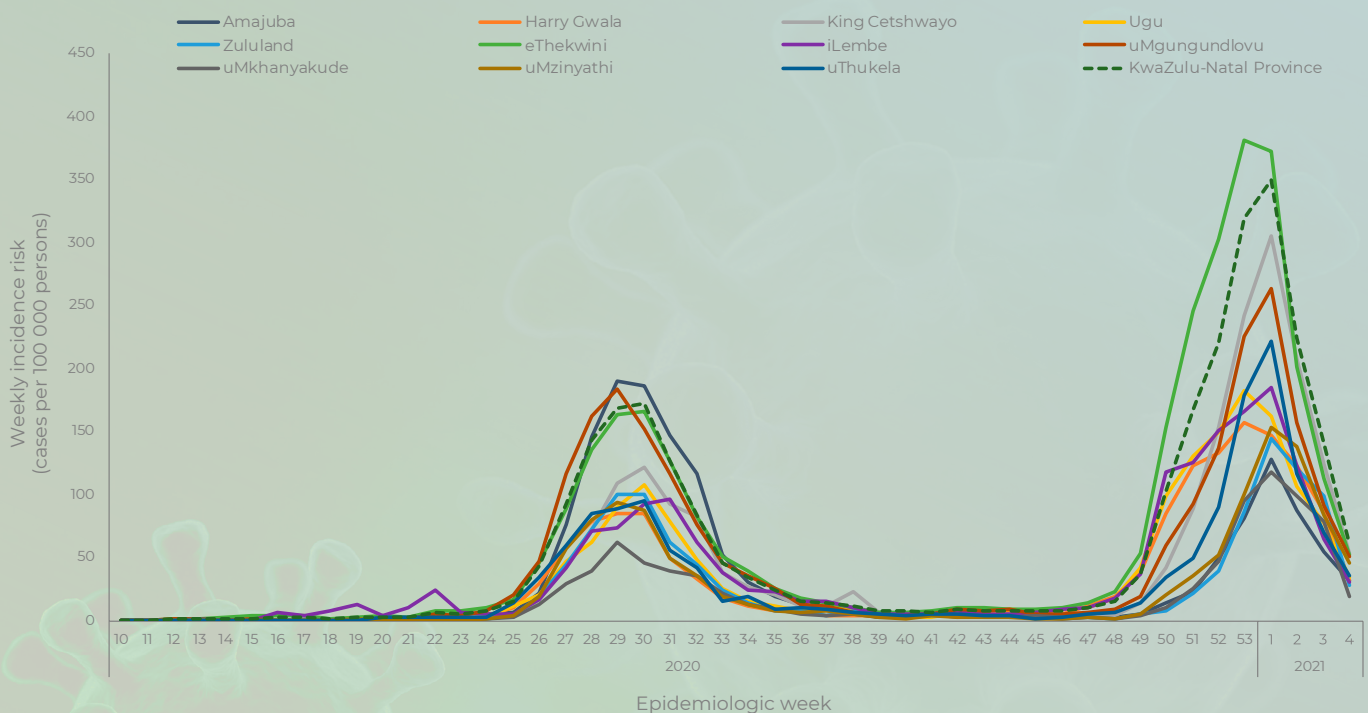


Figure 17. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, KwaZulu-Natal Province, 3 March 2020-30 January 2021 (n= 237 329, 77 704 missing district)

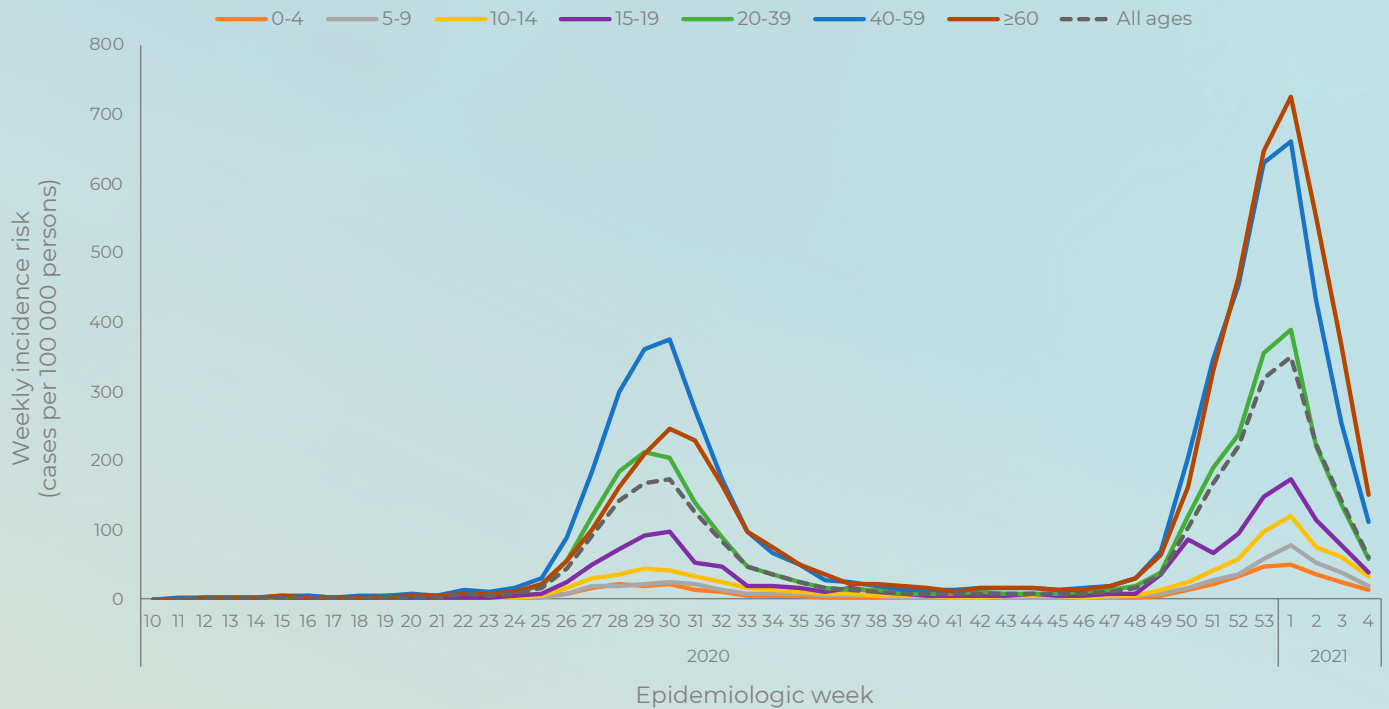


Figure 18. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, KwaZulu-Natal Province, 3 March 2020-30 January 2021 (n= 311 854, 3 179 missing age)

Free State Province

Of the 76 279 cases reported from the Free State Province, 69 411 (91.0%) had allocation by district. The Mangaung Metro (26 230/69 411, 37.8%), followed by the Lejweleputswa (16 503/69 411, 23.8%), and the Thabo Mofutsanyane (13 673/69 411, 19.7%) districts contributed the majority of cases, all other districts contributed below 15% each. In week 4, the Thabo Mofutsanyane District (63.7 cases per 100 000 persons), followed by the Fezile Dabi District (52.1 cases per 100 000 persons) reported the highest weekly incidence risk. All the districts reported an increase in number of new cases and weekly incidence risk from week 50 to week 2,

except for Mangaung, which reported an increase until week 1. The increase in numbers and incidence risk reported during the second wave in all the districts remained below that reported during the first peak (Figure 19). In the past two weeks all districts reported a decreasing trend in number of new cases.

The majority of cases from the Free State Province were in the 20-39-year-age group (28 905/75 956, 38.1%), followed by 40-59-year-age group (27 249/75 956, 35.9%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 20).

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

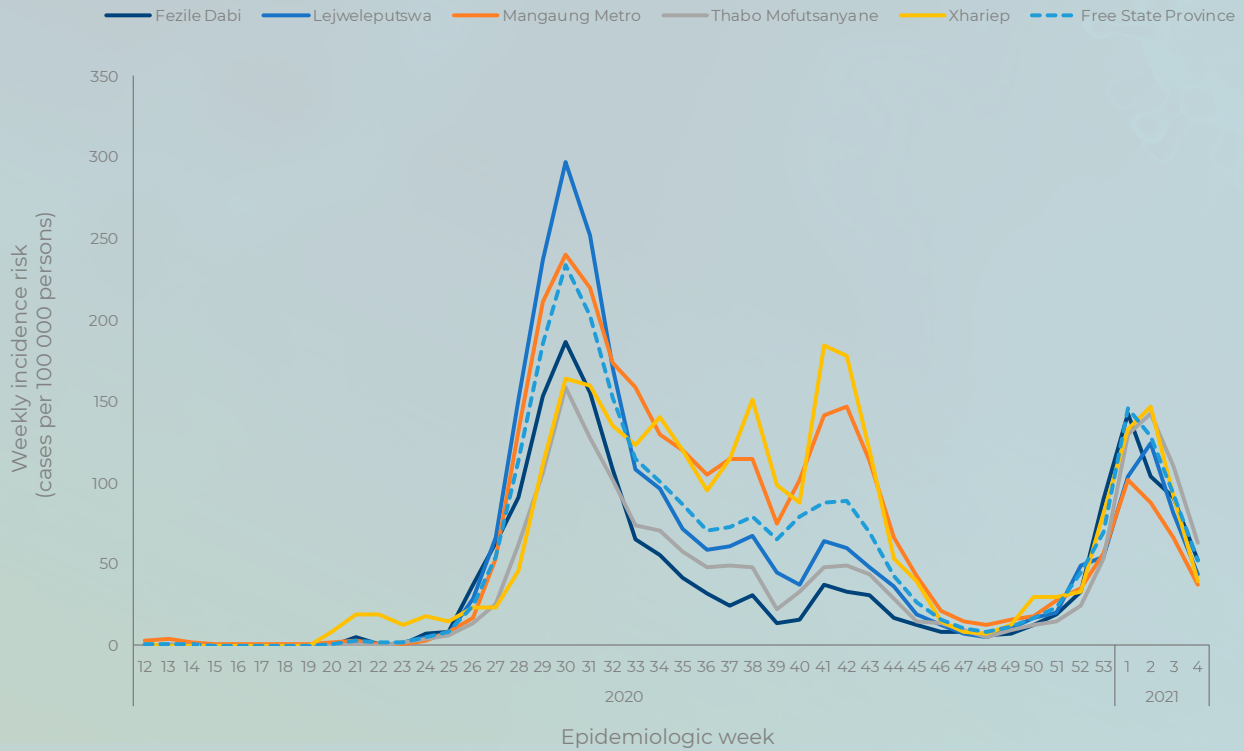


Figure 19. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Free State Province, 3 March 2020-30 January 2021 (n= 69 411, 6 868 missing district)

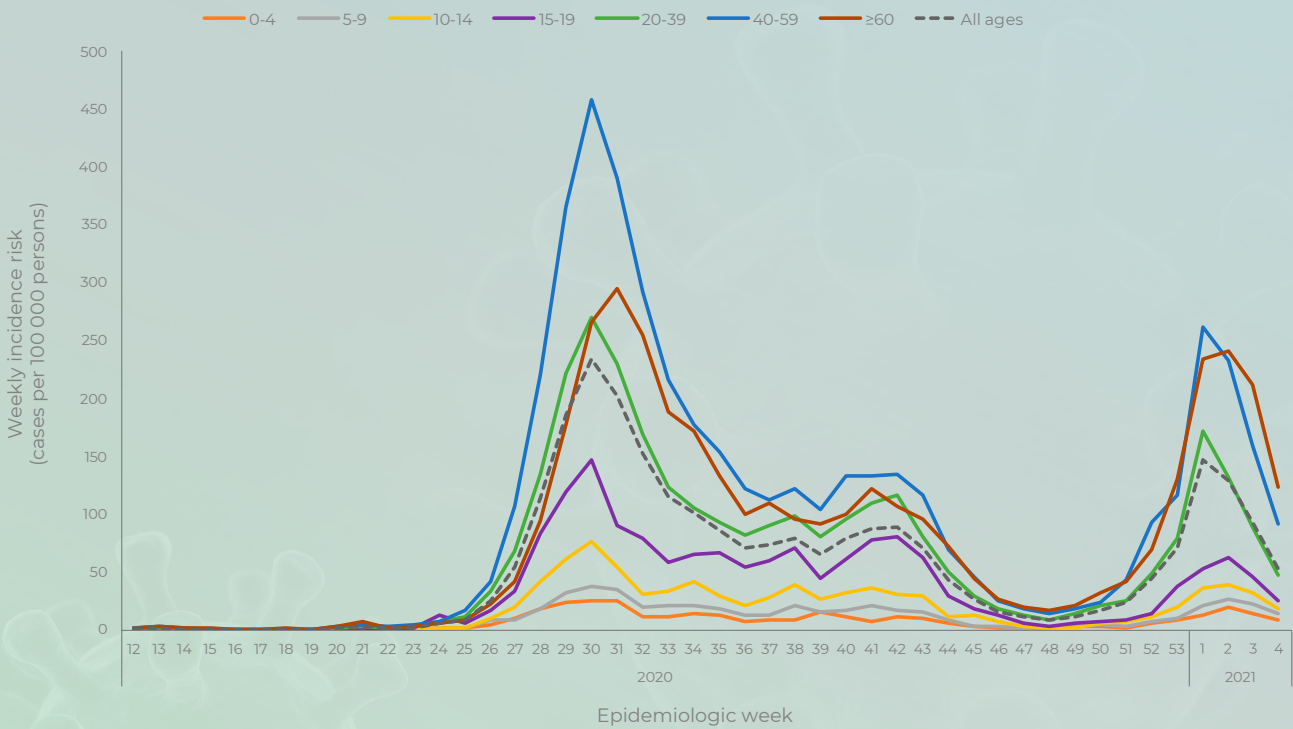


Figure 20. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Free State Province, 3 March 2020-30 January 2021 (n= 75 956, 323 missing age)

Limpopo Province

Of the 57 981 cases reported from the Limpopo Province, 50 944 (87.9%) had allocation by district. The Capricorn (16 197/50 944, 31.8%), followed by the Vhembe (10 507/50 944, 20.6%) districts contributed the majority of cases, all other districts contributed below 20% each. In week 4, the Waterberg (37.1 cases per 100 000 persons), followed by the Capricorn (34.3 cases per 100 000 persons) districts reported the highest weekly incidence risk. All the districts reported a gradual increase in number of new cases and weekly incidence risk from week 49 to week 50, then sharp increase from week 51 to week 1. The weekly incidence risk reported in week 1 exceeded those reported in the first peak in the Vhembe District (183.9 vs 15.0 cases per 100 000 persons), Capricorn District (255.5 vs 47.3 cases per 100

000 persons), Waterberg (192.8 vs 60.2 cases per 100 000 persons), Mopani (182.6 vs 28.7 cases per 100 000 persons), and Sekhukhune District (74.2 vs 33.0 cases per 100 000 persons) (Figure 21). The number of new cases and weekly incidence reported from all districts risk has been decreasing in the last 3 weeks

The majority of cases from Limpopo Province were in the 40-59-year-age group (22 917/57 659, 39.7), followed by 20-39-year-age group (21 959/57 659, 38.1%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 21). In week 1, all age groups reported weekly incidence risks higher than those reported during the first peaks in week 30 (Figure 22).

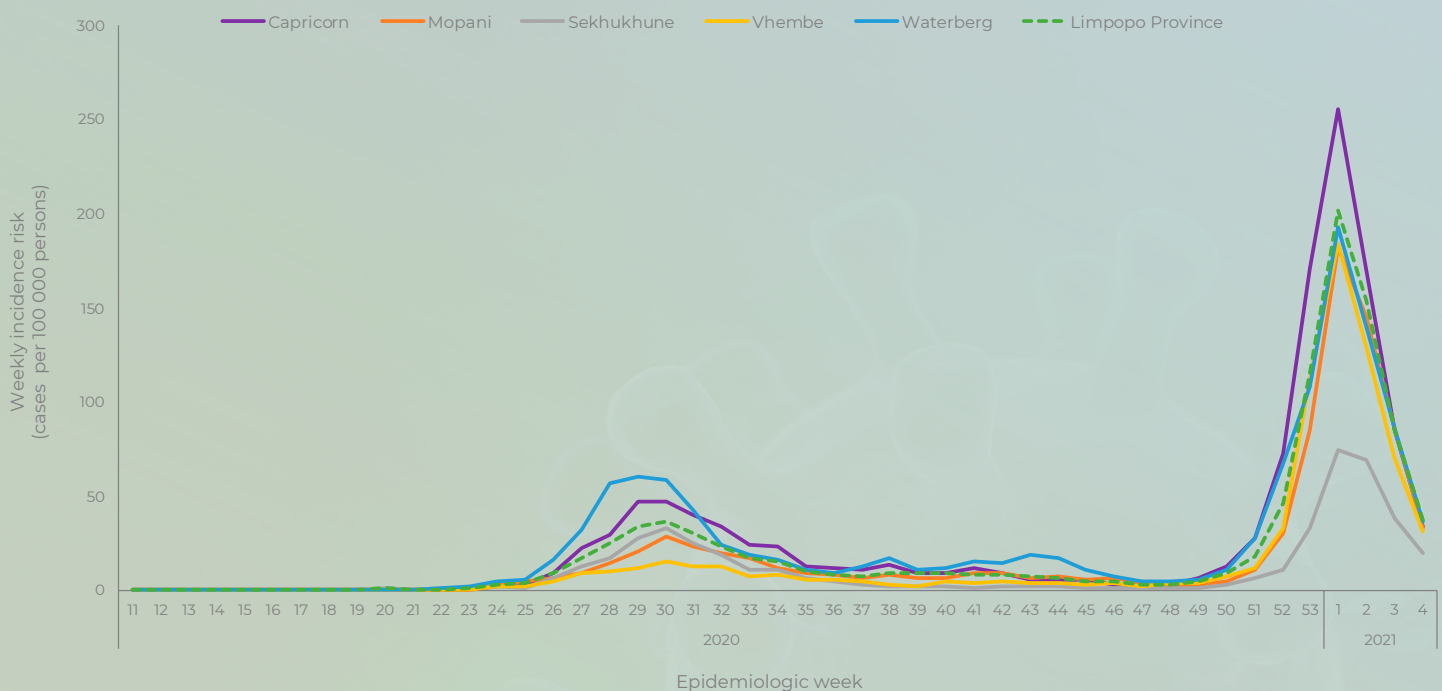


Figure 21. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Limpopo Province, 3 March 2020-30 January 2021 (n= 50 944, 7 037 missing district)

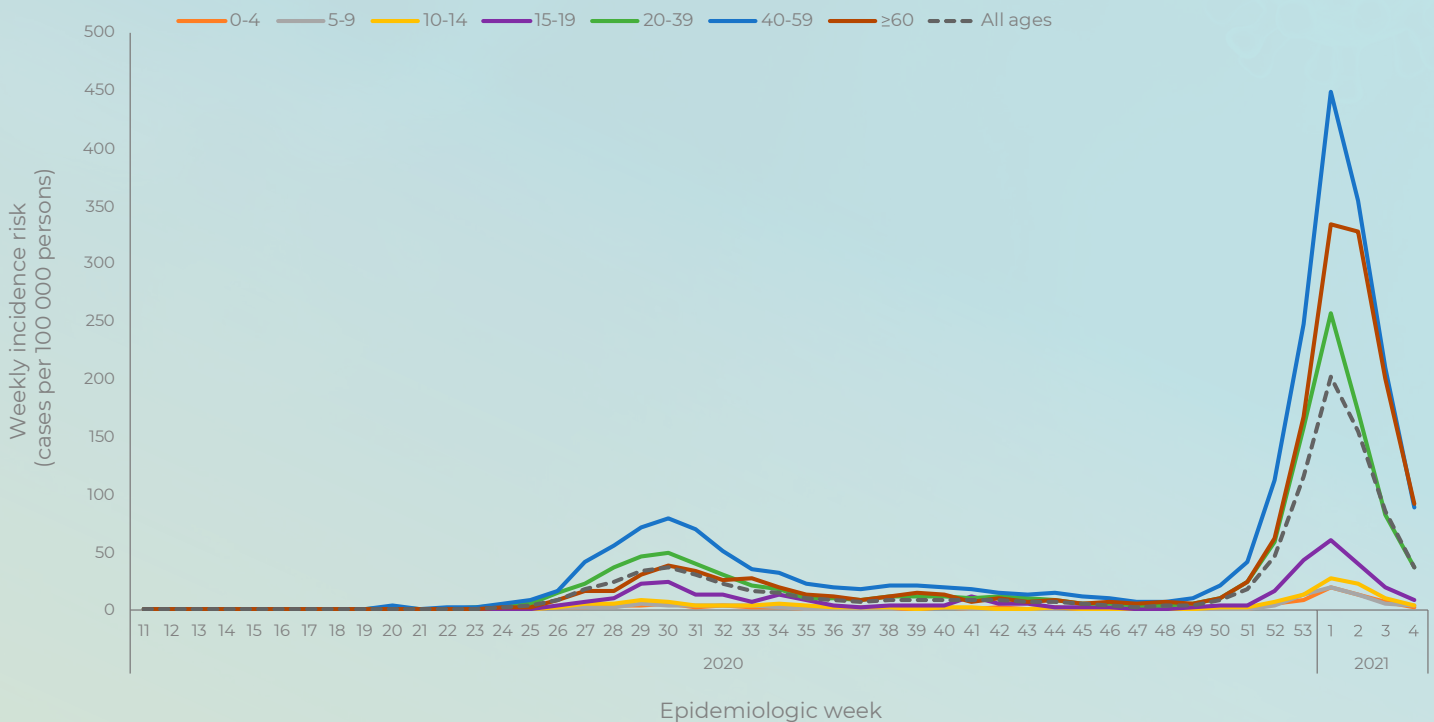


Figure 22. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Limpopo Province, 3 March 2020- 30 January 2021 (n= 57 659, 322 missing age)

Mpumalanga Province

Of the 65 054 cases reported from the Mpumalanga Province, 53 342 (82.0%) had allocation by district. All the districts contributed similar number of cases, Ehlanzeni (20 941/53 342, 39.3%), Nkangala (17 662/53 342, 33.1%) and the Gert Sibande (14 739/53 342, 27.6%) districts. In week 4, the Gert Sibande District (41.5 cases per 100 000 persons), followed by the Ehlanzeni District (41.3 cases per 100 000 persons) reported the highest weekly incidence risk. All the districts reported an increase in number of new cases and weekly incidence risk from week 50 to week 1. The increase in numbers and incidence risk reported during the second wave from all the districts was higher than that reported during the first peak (Figure 23). The number of new cases reported from all districts has been decreasing since week 2 of 2021.

The majority of cases from Mpumalanga Province were in the 20-39-year-age group (26 982/63 976, 42.2%), followed by 40-59-year-age group (22 981/63 976, 35.9%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 24). In week 1, all age groups reported weekly incidence risks higher than those reported in the first wave peaks.

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

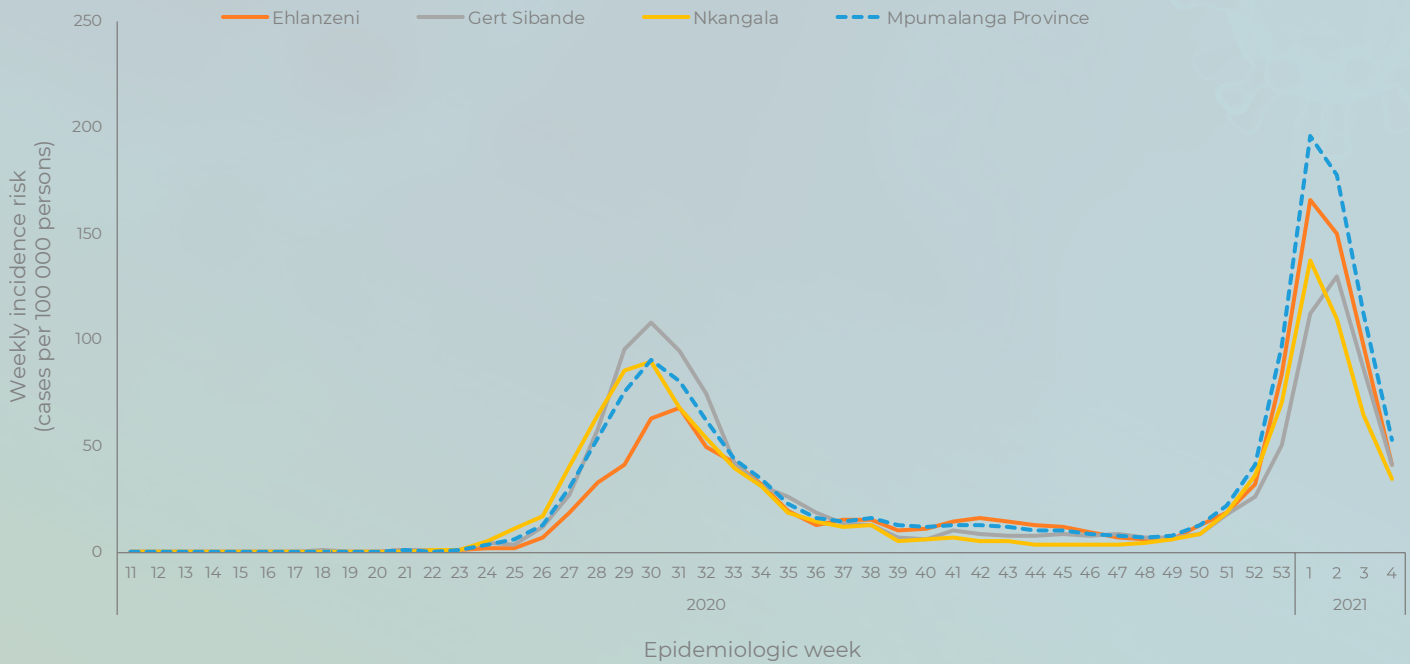


Figure 23. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Mpumalanga Province, 3 March 2020-30 January 2021 (n= 53 342, 11 712 missing district)

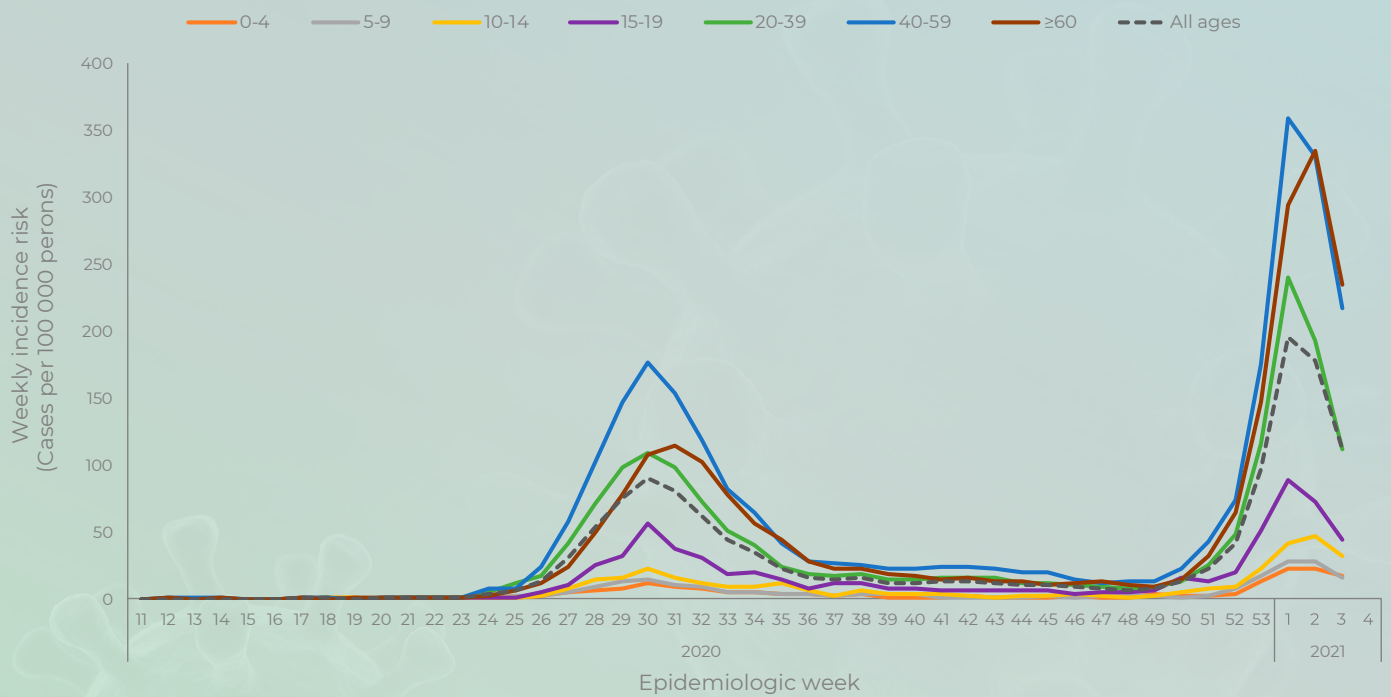


Figure 24. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group and epidemiologic week, Mpumalanga Province, 3 March 2020-30 January 2021 (n= 63 976, 1 078 missing age)

North West Province

Of the 57 154 cases reported from the North West Province, 47 383 (82.9%) had allocation by district. The Bojanala Platinum District (23 936/47 383, 50.5%), followed by the Dr Kenneth Kaunda District (11 595/47 383, 24.5%) contributed the majority of cases, all other districts contributed below 20% each. In week 4, Dr Kenneth Kaunda District (39.7 cases per 100 000 persons) reported the highest weekly incidence risk. All the districts reported a gradual increase in number of new cases and weekly incidence risk from week 50 to week 1, with Bojanala Platinum District showing a sharp increase in week 51 to week 1 2021. The increase in numbers and weekly incidence risk reported during the second wave peak from all the districts was higher

than those reported during the first peak, except the Dr Kenneth Kaunda District which continued to report weekly incidence risk below that reported in the first wave peak (Figure 25). All districts reported a decline in number of new cases since week 2 of 2021.

The majority of cases from North West Province were in the 40-59-year-age group (23 393/56 556, 41.4%), followed by 20-39-year-age group (21 504/56 556, 38.0%). In week 1, all age groups reported weekly incidence risk higher than those reported in the first wave peaks (Figure 26). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week.

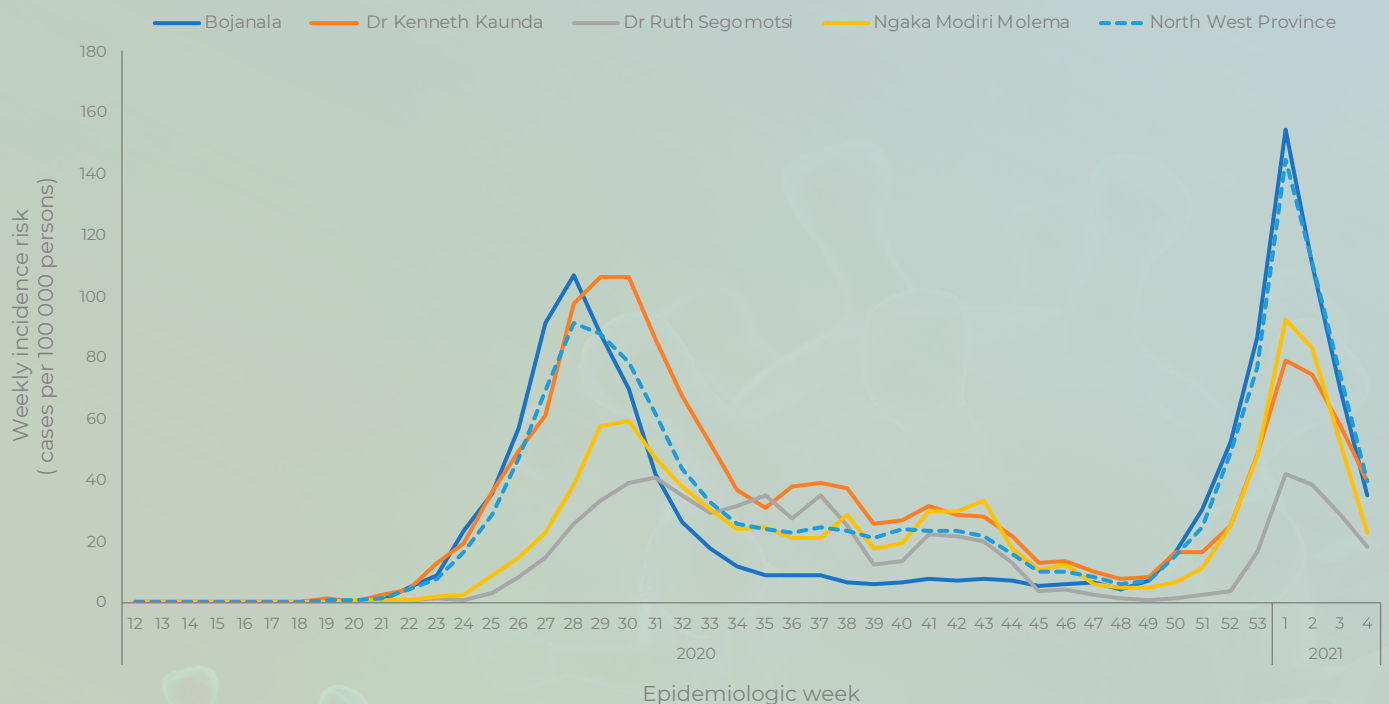


Figure 25. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, North West Province, 3 March 2020-30 January 2021 (n = 47 383, 9 771 missing district)

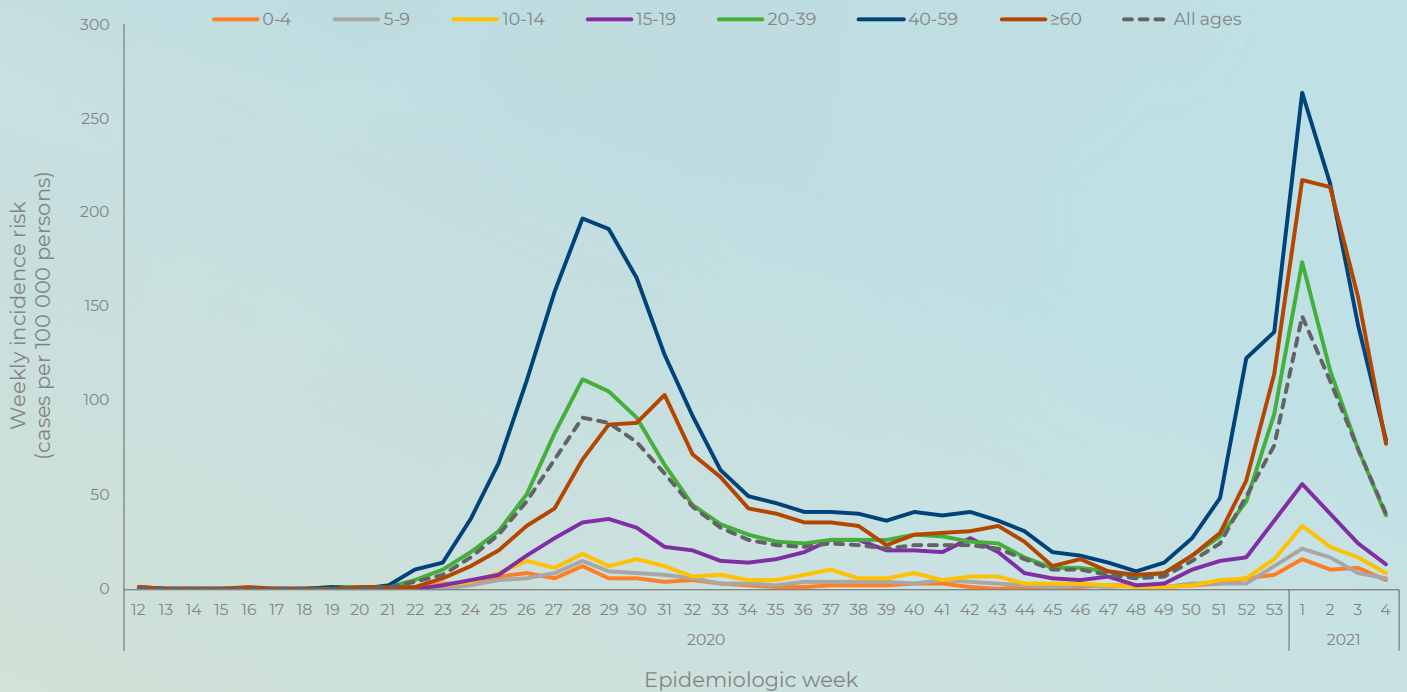


Figure 26. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, North West Province, 3 March 2020- 30 January 2021 (n= 56 556, 598 missing age)

Northern Cape Province

Of the 32 010 cases reported from the Northern Cape Province, 26 786 (83.7%) had allocation by district. The Frances Baard (9 404/26 786, 35.1%), followed by the Pixley ka Seme (6 861/26 786, 25.6%) districts contributed the majority of cases, all other districts contributed below 20% each. In week 4, the Namakwa (90.8 cases per 100 000 persons), followed by Pixley ka Seme (64.5 cases per 100 000 persons) districts reported the highest weekly incidence risk. All the districts reported a gradual increase in number of new cases and weekly incidence risk from week 50 to week 1, with the Namakwa District showing a sharp increase from week 51 to week 1. The increase in numbers and incidence risk reported during the second wave from all the districts

was higher than those reported during the first peak, except the Frances Baard and John Taolo Gaetsewe districts which continued to report weekly incidence risk below that reported during the first peak (Figure 27). Since week 2, all districts reported a decrease in number of new cases reported.

The majority of cases from Northern Cape Province were in the 20-39-year-age group (12 355/31 729, 38.9%), followed by 40-59-year-age group (10 860/31 729, 34.2%). In week 1, all age groups reported the weekly incidence risks higher than those reported in the first wave peak (Figure 28). In the past week, all age groups reported a decrease in weekly incidence risk

COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 4 2021

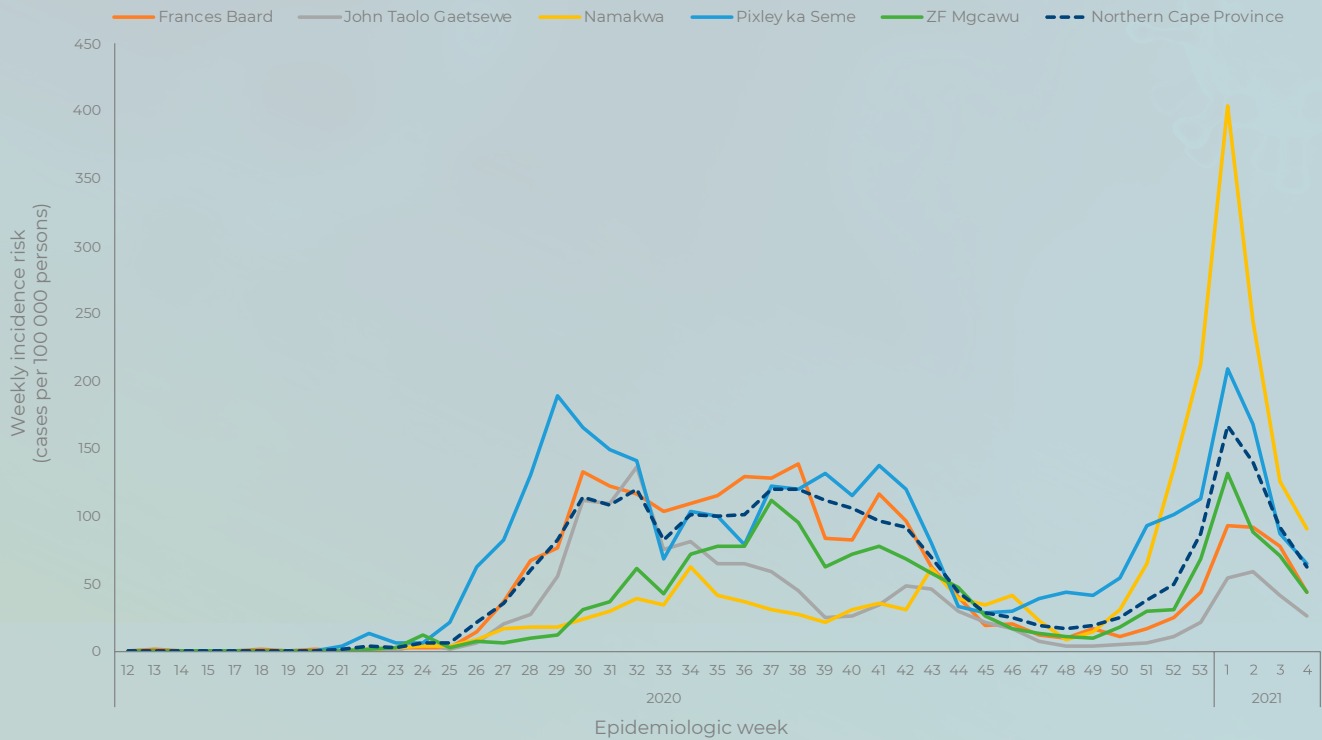


Figure 27. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Northern Cape Province, 3 March 2020- 30 January 2021 (n= 26 786, 5 224 missing district)

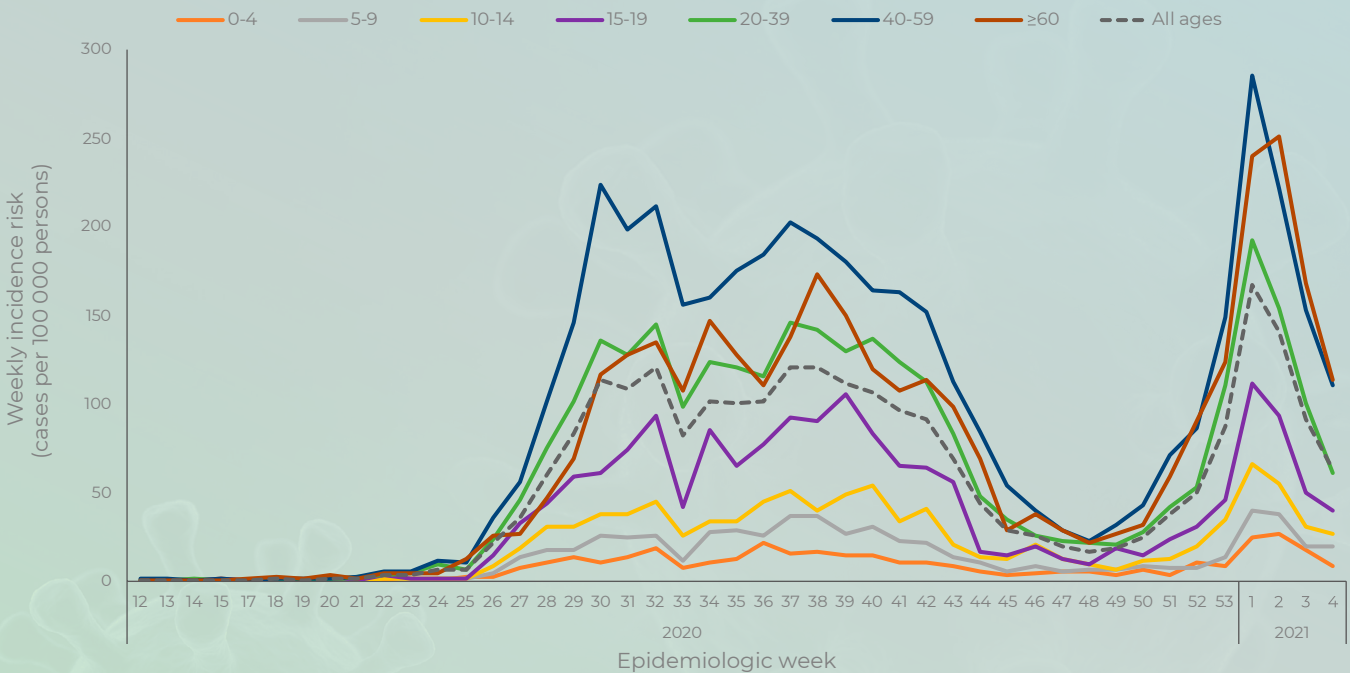


Figure 28. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Northern Cape Province, 3 March 2020- 30 January 2021 (n= 31 729, 281 missing age)

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. The crude CFR reported here is subject to numerous limitations: it is likely to be an underestimation as reporting of deaths may be delayed and deaths which occurred outside health facilities may be missed. Differences in health-seeking behaviour by age group and sex could also contribute to observed differences in case numbers between groups. The reported doubling time estimates are affected by the number of tests conducted; if fewer tests are performed, this will also increase the doubling time estimate. Delays in reporting may result in incomplete data for recent weeks, leading to an apparent reduction in number of cases.

Conclusions

To date, 1 453 761 cases, including 44 164 deaths have been reported. The second wave, increase in cases initially reported from the Eastern Cape Province in week 43, seems to have peaked, with all provinces reporting a decrease in numbers of new cases and incidence risk reported since week 2. In week 4 all districts reported a decrease in number of new cases. Demographic trends have remained unchanged this reporting period, children aged <10 years had the lowest incidence risk and individuals aged 40-59 years had the highest incidence. The decreasing trends in numbers of new cases in recent weeks may be as a result of delay in reporting or changes in testing practices in the different provinces. In addition, number of confirmed cases diagnosed on antigen tests maybe underestimated as they are used in a number of different settings and results may not be fully reported yet.