

SOUTH AFRICA

WEEK 2 2021

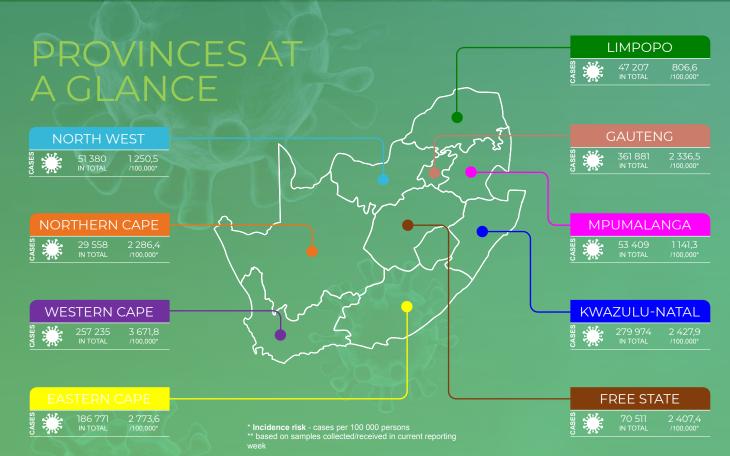
CUMULATIVE DATA FROM



16 JANUARY 2021







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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 16 January 2021 (week 2 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 16 January 2021, a total of 1 337 926 laboratory-confirmed COVID-19 cases had been detected in South Africa. Of these, 106 329 were cases reported since the last report (week 1 of 2021 report). There was a 44.9% decrease in number of new cases detected in week 2 (75 134) compared to the number of new cases detected in week 1 (136 469), possibly related in part to delays in reporting.
- An additional 3 942 deaths were reported since the last report. The overall case-fatality ratio is 2.7% (37 105/1 337 926).
- In the past week, the Gauteng Province reported the highest proportion of the new cases detected (20 676/75 134, 27.5%), followed by the KwaZulu-Natal Province (18 982/75 134, 25.3%), and the Western Cape Province (12 411/75 132, 16.5%).
- 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 29.1 cases per 100 000 persons (22.9% decrease) in the Free State Province to 147.7 cases per 100 000 persons (47.3% decrease) in KwaZulu-Natal Province.
- In week 2, Western Cape Province reported the highest weekly incidence risk (177.2 cases per 100 000 persons), followed by the KwaZulu-Natal Province (164.6 cases per 100 000 persons), and the Gauteng Province (133.5 cases per 100 000 persons), this is similar to the previous five weeks.
- From week 52 2020 through week 1 2021, all provinces reported weekly incidence risks higher than those reported during the first wave peaks in different weeks, except Eastern Cape Province and Free State Province which continued to report weekly incidence risks below those reported in the first wave peaks.
- Since week 53, all the districts in the Western Cape Province reported weekly incidence risks higher than those reported in the first wave peaks.
- In the past 3 weeks, all the districts in KwaZulu-Natal reported weekly incidence risks above those reported in the first wave peaks, except Amajuba District which continued to report weekly incidence risk below the first peak.
- The increase in number of new cases and weekly incidence risk in Gauteng Province was reported in all districts, with the City of Tshwane Metro and Ekurhululeni Metro reporting the highest weekly incidence risk and exceeding the first wave peaks.

RISK FOR CURRENT WEEK 126,0 CASES PER 100 000 **PERSONS** 27,5% OF CASES REPORTED IN **GAUTENG IN** CURRENT WEEK IN CURRENT WEEK, THE HIGHEST WEEKLY INCIDENCE RISK WAS IN CASES AGED 80+ YEARS (322,2 CASES PER 100 000 PERSONS)

INCIDENCE

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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 16 January 2021, a total of 1 337 926 laboratory-confirmed COVID-19 cases were reported in South Africa (Figures 1 and 2). This is 106 329 more cases than the number reported in the last report (week 1 of 2021 report). The number of new cases detected in week 2 (75 134) was lower than the number of new cases detected in week 1 (136 469), this represented a 44.9% 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 Gauteng Province reported the highest number of new cases (20 676/75 134, 27.5%), followed by the KwaZulu-Natal Province (18 982/75 134, 25.3%), and the Western Cape Province (12 411/75 134, 16.5%) (Table 1). Five provinces, Gauteng (361 881/1 337 926, 27.0%), KwaZulu-Natal (279 974/1 337 926, 20.9%), Western Cape (257 235/1 337 926, 19.2%), Eastern Cape (186 771/1 337926, 14.0%), and Free State (70 511/1 337 926, 5.3%) continued to report the majority (1 156 372/1 337 926, 86.4%) 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 1 to week 2 of 2021.

The cumulative incidence risk for the country increased from 2 118.0 cases per 100 000 persons in week 1 of 2021 to 2 244.0 cases per 100 000 persons in week 2. 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 (3 671.8 cases per 100 000 persons), followed

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by the Eastern Cape Province (2 773.6 cases per 100 000), the Free State Province (2 407.4 cases per 100 000 persons), KwaZulu-Natal Province (2 427.9 cases per 100 000 persons), the Gauteng Province (2 336.5 cases per 100 000 persons), and the Northern Cape Province (2 286.4 cases per 100 000 persons). The other provinces continued to report cumulative incidence risk below 1 500 cases per 100 000 persons, with Limpopo Province reporting the lowest cumulative incidence risk (806.6 cases per 100 000 persons).

The Western Cape Province reported the highest weekly incidence risk (177.2 cases per 100 000 persons) in week 2 of 2021, followed by the KwaZulu-Natal Province (164.6 cases per 100 000 persons), and the Gauteng Province (133.5 cases per 100 000 persons), this is similar to the previous five weeks. The weekly incidence risk in all the other provinces remained below 110 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 29.1 cases per 100 000 persons (22.9% decrease) in the Free State Province to 147.7 cases per 100 000 persons (47.3% decrease) in the KwaZulu-Natal Province (Figure 4). Some of the reductions in week 2 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 province, 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 in the Eastern Cape Province since week 51.

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 1 of 2021, the estimated doubling time of number of cases decreased in three provinces, Gauteng Province (from 49.6 days to 36.7 days, 26.0% decrease), the Free State Province (from 134.2 days to 77.0 days, 42.7% decrease), Eastern Cape Province (from 107.4 days to 98.5 days, 8.3% decrease). The estimated doubling time increased for the Western Cape Province (from 40.5 days to 45.6 days, 12.4% increase), and the Kwazulu-Natal Province (from 25.8 days to 30.5 days, 17.9% increase) (Figure 5).

The case-fatality ratio (CFR) is 2.7% (37 105/1 337 926); an additional 3 942 deaths were reported since the last report. The number of deaths reported in the past week was higher than the number reported in the previous week, 3 942 compared to 3 586. 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.

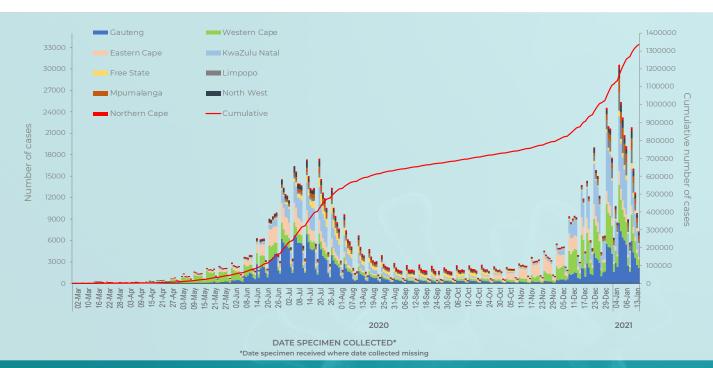


Figure 1. Number and cumulative number of laboratory-confirmed cases of COVID-19 by province and date of specimen collection, South Africa, 3 March 2020- 16 January 2021 (n=1 337 926)

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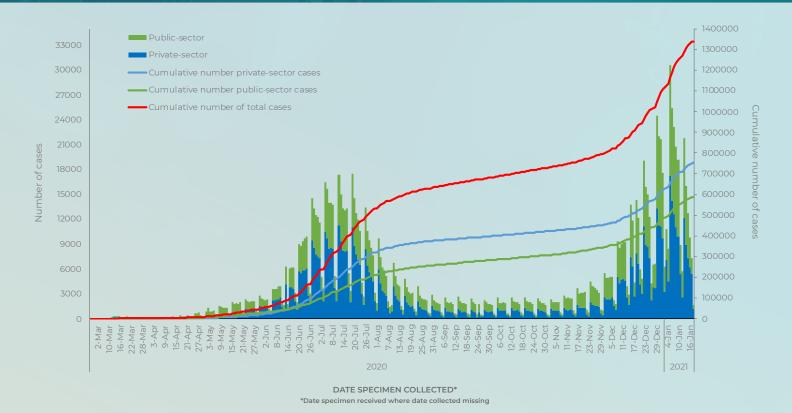


Figure 2. Number and cumulative number of laboratory-confirmed cases of COVID-19, by testing laboratory sector and date of specimen collection, South Africa, 3 March 2020-16 January 2021 (n=1 337 926)

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 2020-16 January 2021 (n=1 337 926)

Province	Cumulative cases (n) (percentage, n/ total cases in South Africa)	New cases ¹ detected in week2 (10-16 January 2021), n (percentage ² , n/total)	Population in mid-2020³, n	Cumulative incidence risk (cases per 100 000 persons)	Incidence risk of new cases detected in week 2 (cases/100 000 persons)	Tests ⁴ per 100 000 persons, 10-16 January 2021
Eastern Cape	186 771 (14.0)	4 103 (5.5)	6 734 001	2 773.6	60.9	358.1
Free State	70 511 (5.3)	2 863 (3.8)	2 928 903	2 407.4	97.7	462.8
Gauteng	361 881 (27.0)	20 676 (27.5)	15 488 137	2 336.5	133.5	754.5
KwaZulu-Natal	279 974 (20.9)	18 982 (25.3)	11 531 628	2 427.9	164.6	770.2
Limpopo	47 207 (3.5)	5 789 (7.7)	5 852 553	806.6	98.9	252.2
Mpumalanga	53 409 (4.0)	5 084 (6.8)	4 679 786	1 141.3	108.6	472.8
North West	51 380 (3.8)	3 810 (5.1)	4 108 816	1 250.5	92.7	269.7
Northern Cape	29 558 (2.2)	1 416 (1.9)	1 292 786	2 286.4	109.5	572.8
Western Cape	257 235 (19.2)	12 411 (16.5)	7 005 741	3 671.8	177.2	675.9
Unknown	0	0	0			
Total	1 337 926	75 134	59 622 350	2 244.0	126.0	580.4

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 ^aData on number of tests conducted sourced from COVID-19 weekly testing report of the same reporting week

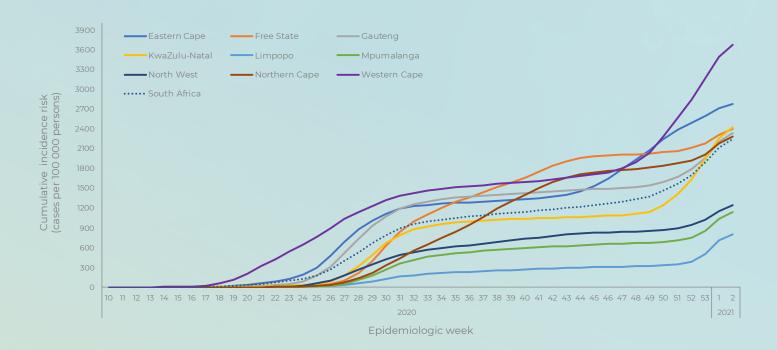


Figure 3. Cumulative incidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March 2020-16 January 2021 (n= 1 337 926)

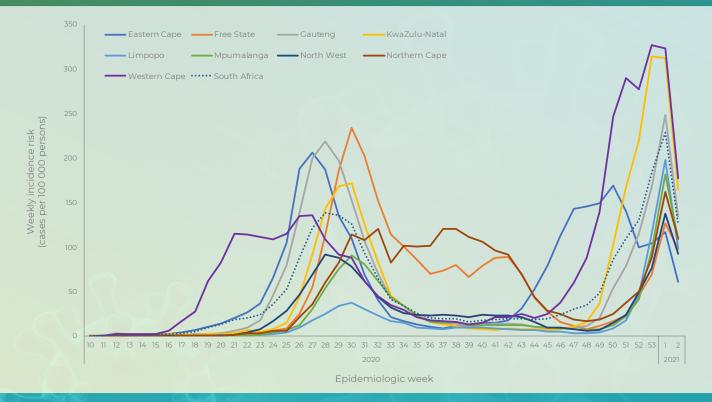


Figure 4. Weeklyincidence risk of laboratory-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March 2020- 16 January 2021 (n=1 337 926)

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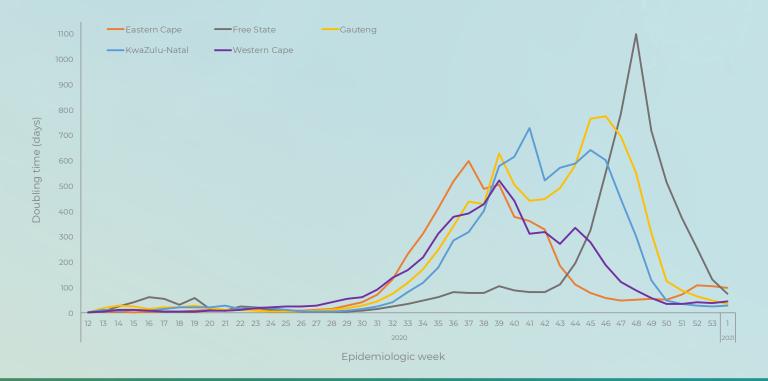


Figure 5. Doubling time of number of laboratory-confirmed cases of COVID-19 by province (for 5 provinces with the majority of cases) and epidemiologic week, South Africa, 23 March-2020- 9 January 2021 (n=1 262 705)

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 (159 775/1 326 739, 12.0%) and 30-34-year (155 580/1 326 739, 11.7%) 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 (8 628/74 356, 11.6%) followed by the 40-44-year age group (7 802/74 356, 10.5%). The median age for cases reported in week 2 was similar (43 years, IQR 31-56), to that of total cases (40 years). The highest cumulative incidence risk remained among cases aged 50-54 years (4 582.7 cases per 100 000 persons), followed by cases aged 55-59 years (4 485.8 cases per 100 000 persons) and 80+ years (4 207.7 cases per 100 000 persons). The lowest cumulative incidence risk was reported in the younger age-groups, 265.3 cases per 100 000 persons and 327.6 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 2 of 2021 was reported in cases aged 80+ years (322.2 cases per 100 000 persons), followed by cases in the 55-59-year-age group (272.7 cases per 100 000 persons) and the lowest weekly incidence

risk was in the 0-4-year age group (14.3 cases per 100 000 persons) (Figure 8 and table 2).

To date, the majority of COVID-19 cases reported were female 57.8% (764 998/1 324 498). This trend continued in the past week where 57.3% (42 526/74 262) of cases were female. The cumulative incidence risk has remained consistently higher among females (2 489.2 cases per 100 000 persons) than among males (1 906.6 cases per 100 000 persons) (Figure 9). The peak cumulative incidence risk was in the 50-54-year-age group (4 795.0 cases per 100 000 persons) for females, and in the ≥80-year-age group (4 389.7 cases per 100 000 persons) and 55-59-year-age group (4 353.4 cases per 100 000 persons) for males (Figure 10). In week 2, the highest weekly incidence risk for both females and males was in the ≥80-year-age group (314.3 cases per 100 000 persons), and (324.9 cases per 100 000 persons), respectively. The high prevalence and incidence risk among females 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.

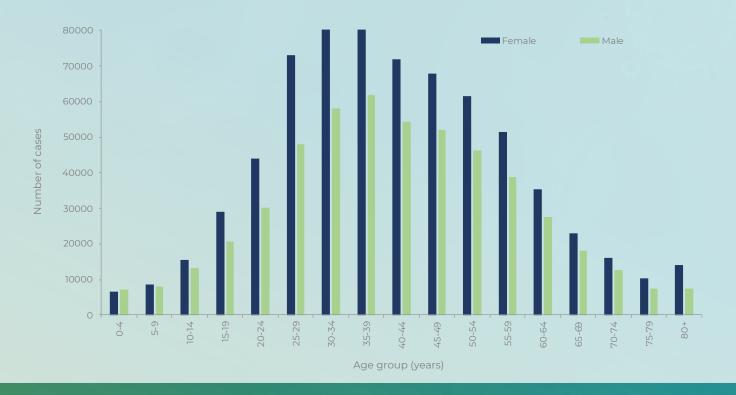


Figure 6. Number of laboratory-confirmed cases of COVID-19 by age group and sex, South Africa, 3 March 2020-16 January 2021 (n = 1314410, sex/age missing for 23516)

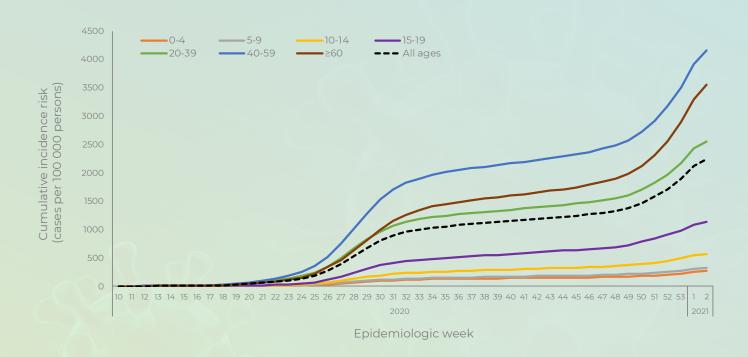


Figure 7. Cumulative incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, South Africa, 3 March 2020-16 January 2021 (n= 1 326 739, 11 187 missing age)

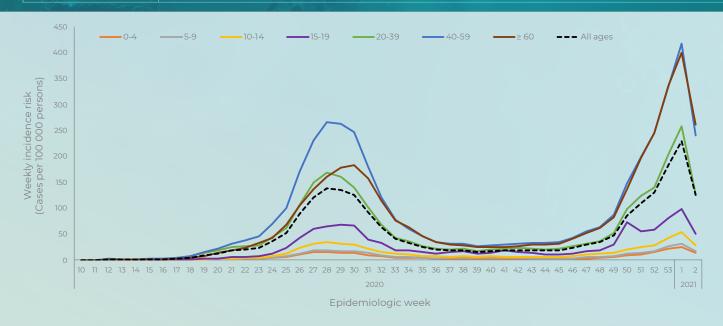


Figure 8. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, South Africa, 3 March 2020-16 January 2021 (n= 1 326 739, 11 187 missing age)

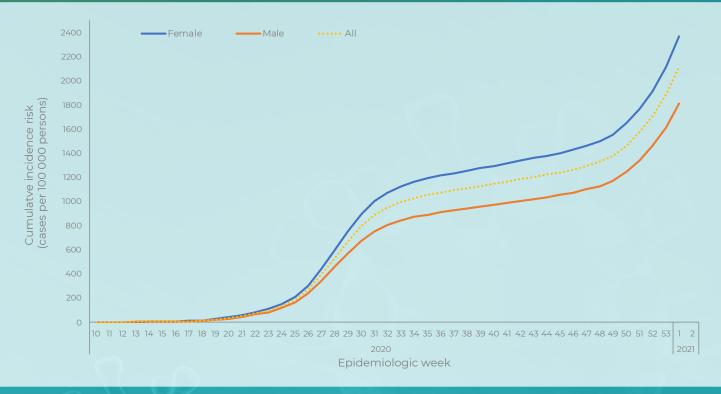


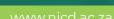
Figure 9. Cumulative incidence risk by sex and epidemiologic week, South Africa, 3 March 2020-16 January 2021 (n= 1 324 498, sex missing for 13 428)

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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- 16 January 2021, n=1 326 739, 11 187 missing age)

Age group (years)	Cumulative cases (n) (percentage, n/ total cases in South Africa)	New cases¹ detected in week 2 (10-16 January 2021), n (percentage², n/ total)	Population in mid-2020 ³ , n	Cumulative incidence risk (cases per 100 000 persons)	
0-4	15 236 (1.1)	824 (1.1)	5743 450	265.3	14.3
5-9	18 724 (1.4)	999 (1.3)	5715 952	327.6	17.5
10-14	31 872 (2.4)	1 619 (2.2)	5591 553	570.0	29.0
15-19	54 059 (4.1)	2 446 (3.3)	4774 579	1 132.2	51.2
20-24	80 867 (6.1)	3 642 (4.9)	4823 367	1 676.6	75.5
25-29	131 834 (9.9)	6 196 (8.3)	5420 754	2 432.0	114.3
30-34	155 580 (11.7)	7 726 (10.4)	5641 750	2 757.7	136.9
35-39	159 775 (12.0)	8 628 (11.6)	4798 293	3 329.8	179.8
40-44	138 031 (10.4)	7 802 (10.5)	3733 942	3 696.7	208.9
45-49	130 886 (9.9)	7 420 (10.0)	3169 648	4 129.4	234.1
50-54	117 834 (8.9)	6 875 (9.2)	2571 263	4 582.7	267.4
55-59	99 195 (7.5)	6 031 (8.1)	2211 309	4 485.8	272.7
60-64	70 062 (5.3)	4 789 (6.4)	1796 316	3 900.3	266.6
65-69	46 038 (3.5)	3 437 (4.6)	1408 665	3 268.2	244.0
70-74	32 252 (2.4)	2 471 (3.3)	1007 174	3 202.2	245.3
75-79	20 204 (1.5)	1 591 (2.1)	637 062	3 171.4	249.7
≥80	24 290 (1.8)	1 860 (2.5)	577 273	4 207.7	322.2
Unknown	11 187	778	1		
Total	1 337 926	75 134	59 622 350	2 244.0	126.0

New cases refer to cases whose samples were collected or received in the current reporting week; *Percentage=n/total number of new cases (specimen collected or received in current reporting week); *2020 Mid-year population Statistics South Africa



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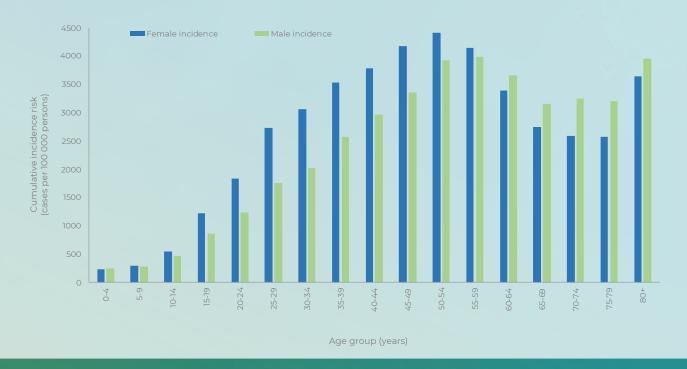


Figure 10. Cumulative incidence risk by age group and sex, South Africa, 3 March 2020- 16 January 2021 (n= 1 314 410, sex/age missing for 23 516)

Provincial trends of COVID-19 cases

In the past few weeks, the majority of provinces have reported an increase in the number of new cases and weekly incidence risks, except for the Eastern Cape where total numbers appear to be going down. Trends by district and age group for each province are presented below.

Eastern Cape Province

Of the 186 771 cases reported from the Eastern Cape Province, 165 910 (88.8 %) cases had allocation by district. The Nelson Mandela Bay Metro (46 374/165 910, 28.0 %) followed by the Buffalo City Metro (30 260/165 910, 18.2%) contributed the majority of cases from the Eastern Cape. In week 2, the Joe Gqabi (94.2 cases per 100 000 persons), followed by the Buffalo City (72.0 cases per 100 000 persons), the Chris Hani (73.8 cases per 100 000 persons) districts reported the highest weekly incidence risk (Figure 11). The trend in weekly incidence risk reported in recent weeks varied by district, with

Nelson Mandela Bay and Sarah Baartman districts reporting the highest weekly incidence risks in week 47, Amathole District in week 50, and Joe Gqabi District in week 53, all at a higher level compared to the peaks in the first wave.

The majority of cases from the Eastern Cape Province were in the 40-59-year old age group (67 647/184 859, 36.6%), followed by the 20-39-year age group (64 076/184 859, 34.7%). In the past week, the ≥60-year age group (162.0 cases per 100 000 persons), followed by 40-59-year age group (110.5 cases per 100 000 persons), and 20-39-year age group (52.8 cases per 100 000 persons), reported the highest weekly incidence risk. The weekly incidence risk in all other age groups was below 30 cases per 100 000 persons. In the past week, all age groups reported a decrease in weekly incidence risk, compared to week 1 (Figure 12). From week 47 to week 1, ≥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.

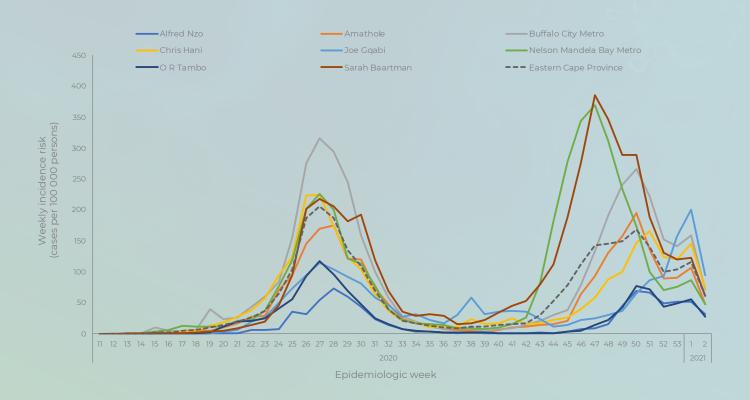


Figure 11. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Eastern Cape Province, 3 March 2020-16 January 2021 (n= 165 910, 20 861 missing district)

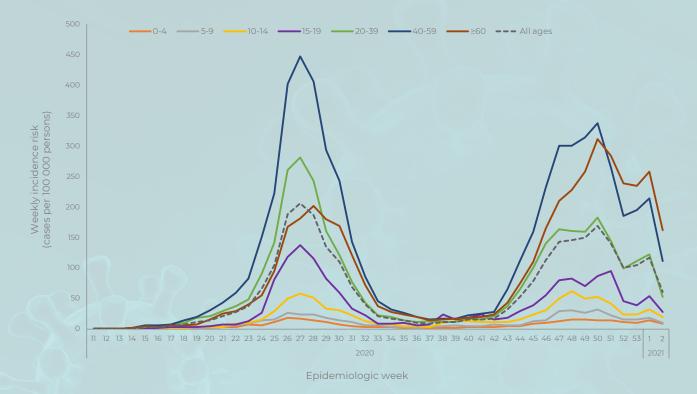


Figure 12. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Eastern Cape Province, 3 March 2020 – 16 January 2021 (n= 184 859, 1 912 missing age)

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Western Cape Province

Of the 257 235 cases reported from the Western Cape Province, 239 874 (93.4%) cases had allocation by district. The City of Cape Town District (159 466/239 874, 66.5%) followed by the Garden Route District (27 670/239 874, 11.5%), and the Cape Winelands District (28 920/239 874, 12.1%) contributed the majority of cases, all other districts contributed <10% each. In the past week, the highest weekly incidence risk was reported by the Overberg (227.4 cases per 100 000 persons), followed by the West Coast (227.0 cases per 100 000 persons) districts, other districts reported below 200 cases per 100 000 persons (Figure 13). The increasing trend in weekly incidence risk reported from the different districts in recent weeks varied by district, with all the districts reporting the highest weekly incidence risks from week 50 to week 53, higher than the peaks in the first wave. Case numbers are going down in Garden route since the peak in week 50 following the steep increase in cases which started in week 45.

The majority of cases from the Western Cape Province were in the 20-39-year old age group (102 574/256 337, 40.0 %), followed by the 40-59-year age group (95 912/256 337, 37.3%). In the past week, the ≥60-year age group (606.4 cases per 100 000 persons), followed by 40-59-year age group (548.4 cases per 100 000 persons), 20-39-year age group (333.1 cases per 100 000 persons), and 15-19-year-age group (133.4 cases per 100 000 persons) reported the highest weekly incidence risk. The weekly incidence risk in all other age groups remained below 50 cases per 100 000 persons. In the past week, three age groups (5-9, 10-14 and 15-19-year age groups) reported an increase in weekly incidence risk, compared to week 1, (Figure 14). From week 51 to week 2, all age groups reported the highest weekly incidence risks compared to the peaks in the first wave in different weeks.

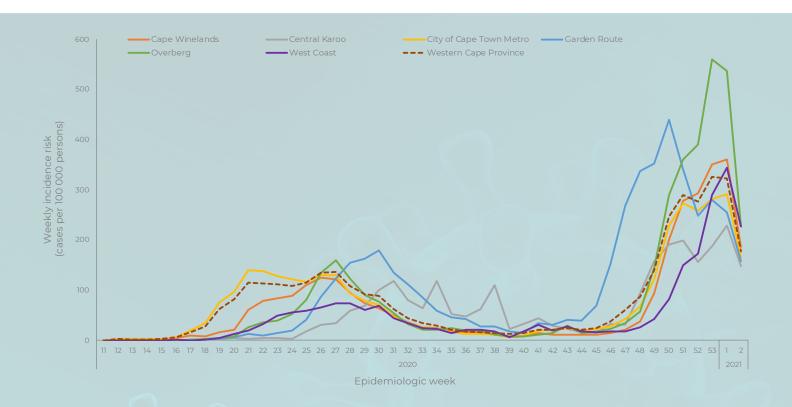


Figure 13. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Western Cape Province, 3 March 2020-16 January 2021 (n= 239 874, 17 361 missing district)

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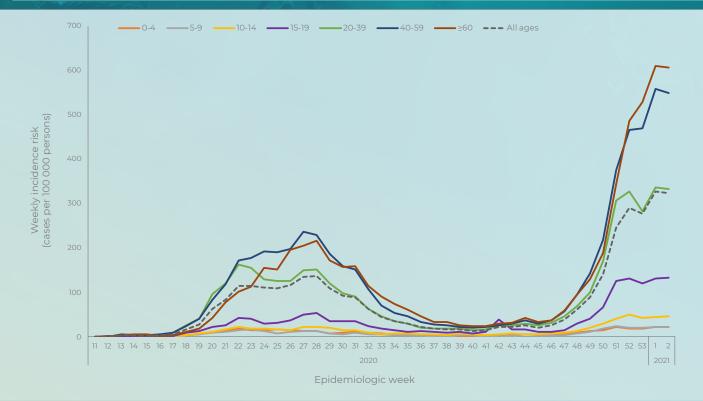


Figure 13. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Western Cape Province, 3 March 2020- 16 January 2021 (n= 256 337, 898 missing age)

Gauteng Province

Of the 361 881 cases reported from the Gauteng Province, 318 332 (88.0%) had allocation by district. The City of Johannesburg Metro (123 738/318 332, 38.9%), followed by the City of Tshwane Metro (84 886/318 332, 26.7%), and the Ekurhululeni Metro (66 283/318 332, 20.8%) contributed the majority of cases, all other districts contributed below 15% each. In week 2, the City of Tshwane (152.6 cases per 100 000 persons), followed by the West Rand District (118.9 cases per 100 000 persons), and the City of Johannesburg Metro (101.0 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. The increase in numbers and incidence risk

reported recently from all the districts remained below that reported during the first peak, except the City of Tshwane Metro and Ekurhululeni Metro which reported a higher weekly incidence in week 1 compared the first wave peak in week 29 (Figure 15).

The majority of cases from Gauteng Province were in the 20-39-year-age group (154 218/358 064, 43.1%), followed by 40-59-year-age group (130 838/358 064, 36.5%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 16).

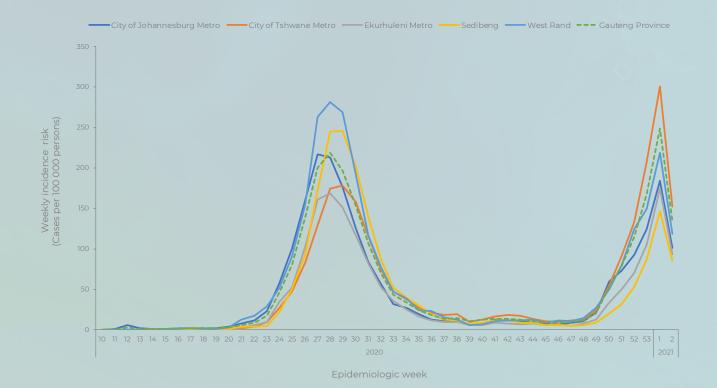


Figure 15. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Gauteng Province, 3 March 2020- 16 January 2021 (n= 318 332, 43 549 missing district)

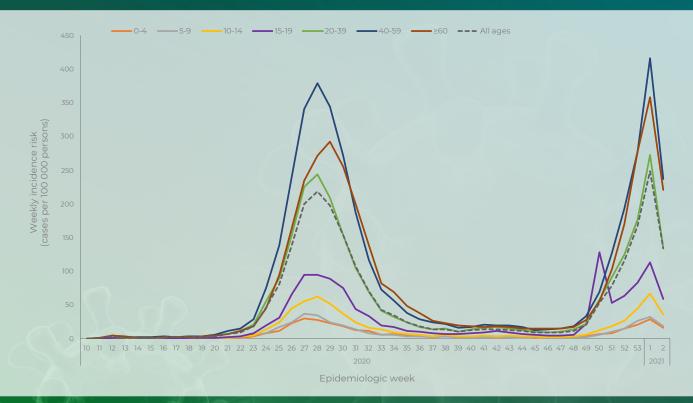


Figure 16. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Gauteng Province, 3 March 2020-16 January 2021 (n= 358 064, 3 817 missing age)

WEEK 2 2021

KwaZulu-Natal Province

Of the 279 974 cases reported from KwaZulu-Natal Province, 214 427 (76.6%) had allocation by district. The eThekwini Metro (111 598/214 427, 52.0%) followed by uMgungundlovu Metro (22 642/214 427, 10.6%) contributed the majority of cases. In week 2, eThekwini Metro (166.9 cases per 100 000 persons), followed by King Cetshwayo (128.6 cases per 100 000 persons), uMgungundlovu (118.9 cases per 100 000 persons) districts reported the highest weekly incidence risk. In the past week, all districts reported a decrease in weekly incidence risk, compared to week 1. The decreases in week 2 are 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, has been reported since week 48. During this period, all districts reported weekly incidence risks higher than those reported in the first peaks; eThekwini Metro (300.4 vs 165.8 cases per 100 000 persons), iLembe District (150.2 cases vs 96.2 per 100 000 persons), Harry Gwala District (132.9 vs. 85.2 cases per

100 000 persons), King Cetshwayo (170.1 vs 121.9 cases per 100 000 persons), Ugu (148.7 vs 107.0 cases per 100 000 persons), uThukela (99.0 vs 94.5 cases per 100 000 persons), uMkhanyakude (63.8 vs 61.7 cases per 100 000 persons), uThukela (152.3 vs 94.5 cases per 100 000 persons), uMzinyathi (94.8 vs 94.3 cases per 100 000 persons), and Zululand (101.2 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).

The majority of cases from KwaZulu-Natal Province were in the 20-39-year-age group (107 889/277 311, 38.9%), followed by 40-59-year-age group (97 614/277 311, 35.2%). In week 52 to week 53, all age groups reported weekly incidence risks higher than those reported in the first wave peaks. In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week (Figure 18).

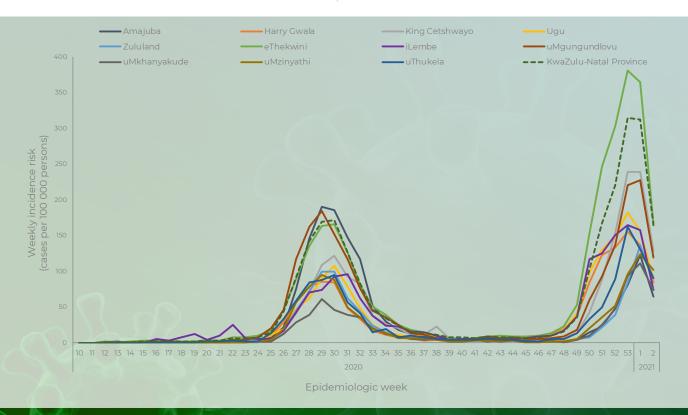


Figure 17. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, KwaZulu-Natal Province, 3 March 2020-16 January 2021 (n= 214 427, 65 547 missing district)

WEEK 2 2021

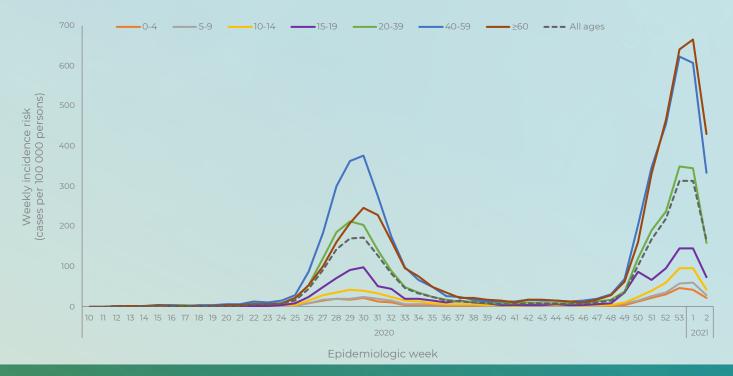


Figure 18. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, KwaZulu-Natal Province, 3 March 2020-16 January 2021 (n= 277 311, 2 663 missing age)

Free State Province

Of the 70 511 cases reported from the Free State Province, 64 664 (91.7%) had allocation by district. The Mangaung Metro (25 208/64 664, 39.0 %), followed by the Lejweleputswa (15 430/64 664, 23.9%), and the Thabo Mofutsanyane (12 100/64 664, 18.7 %) districts contributed the majority of cases, all other districts contributed below 15% each. In week 2, the Thabo Mofutsanyane District (113.9 cases per 100 000 persons), followed by the Xhariep District (93.5 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 recently from all the districts remained below that reported during the first peak (Figure 19).

The majority of cases from the Free State Province were in the 20-39-year-age group (26 939 / 70 296, 38.3%), followed by 40-59-year-age group (25 275 / 70 296, 36.0%). In the past week, all age group reported a decrease in weekly incidence risk, except 0-4-year age group which reported an increase and 5-9-year age group which reported no change in weekly incidence risk, compared to the previous week (Figure 20).

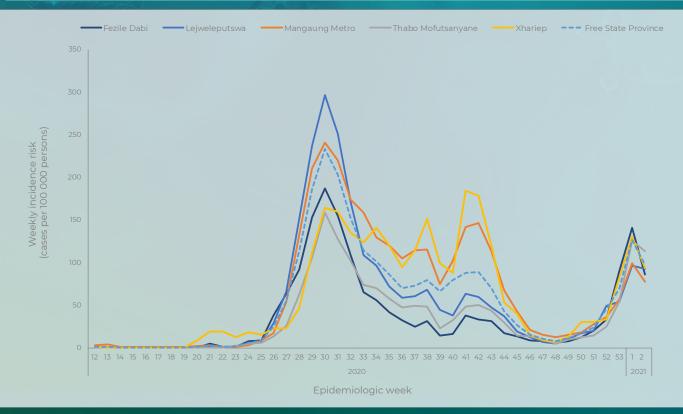


Figure 19. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Free State Province, 3 March 202-16 January 2021 (n= 64 664, 5 847 missing district)

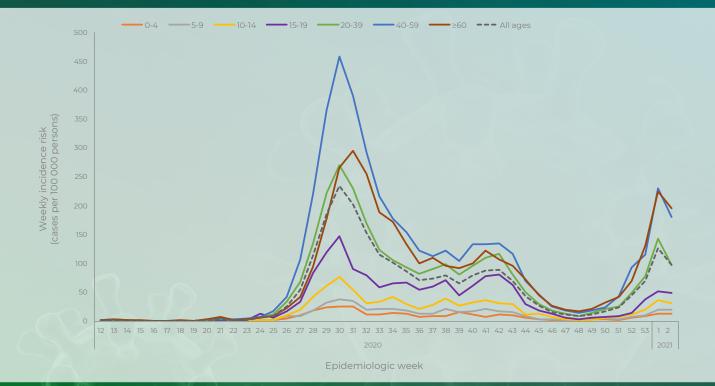


Figure 20. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Free State Province, 3 March 2020-16 January 2021 (n= 70 296, 215 missing age)

WEEK 2 2021

Limpopo Province

Of the 47 207 cases reported from the Limpopo Province, 42 157 (89.3%) had allocation by district. The Capricorn (14 046 /33 489, 34.2%), followed by the Vhembe (8 205/33 489, 18.4%), and the Mopani (7 964/42 157, 18.9%) districts contributed the majority of cases, all other districts contributed below 18% each. In week 2, the Capricorn (127.8 cases per 100 000 persons), followed by the Waterberg (100.2 cases per 100 000 persons), and the Mopani (99.5 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 49 to week 50, then sharp increase from week 51 to week 1. The weekly incidence risk reported in week 1 exceeds those reported in the first peak in the Vhembe District (177.5 vs

15.0 cases per 100 000 persons), Capricorn District (252.8 vs 47.3 cases per 100 000 persons), Waterberg (190.4 vs 60.2 cases per 100 000 persons), Mopani (181.0 vs 28.7 cases per 100 000 persons), and Sekhukhune District (72.7 vs 33.0 cases per 100 000 persons) (Figure 21).

The majority of cases from Limpopo Province were in the 20-39-year-age group (18 601/47 007, 39.6%), followed by 40-59-year-age group (18 478 /47 007, 39.3%). 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).

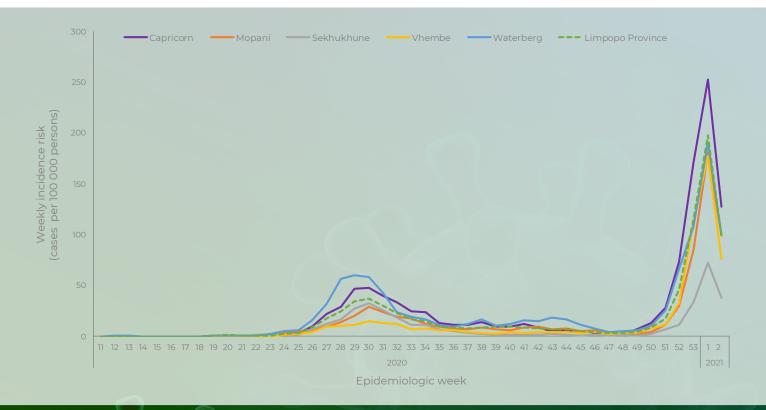


Figure 21. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Limpopo Province, 3 March 2020-16 January 2021 (n= 42 157, 5 050 missing district)

WEEK 2 2021

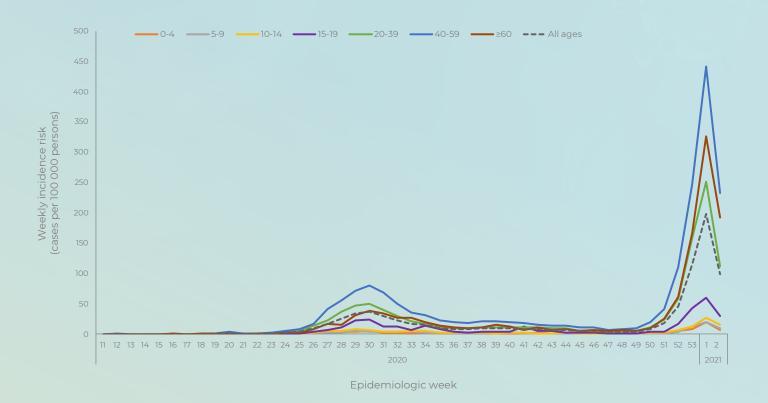


Figure 22. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Limpopo Province, 3 March 2020- 16 January 2021 (n= 47 007, 200 missing age)

Mpumalanga Province

Of the 53 409 cases reported from the Mpumalanga Province, 45 184 (84.6%) had allocation by district. All the districts contributed similar number of cases, Ehlanzeni (16 992/45 184, 37.6%), Nkangala (15 631/45 184, 34.6%) and the Gert Sibande (12 561/45 184, 27.8%) districts. In week 2, the Nkangala District (85.6 cases per 100 000 persons), followed by the Gert Sibande District (85.1 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 1. The increase in numbers and incidence risk reported recently from all the districts was higher than that reported during the first peak (Figure 23).

The majority of cases from Mpumalanga Province were in the 20-39-year-age group (22 708/52 676, 43.1%), followed by 40-59-year-age group (18 934/52 676, 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.

WFFK 2 2021

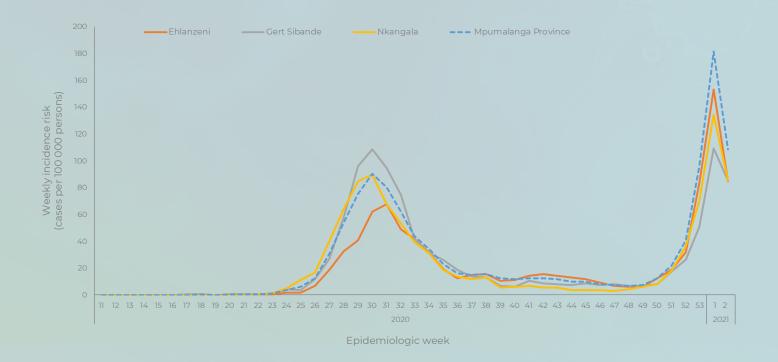


Figure 23. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Mpumalanga Province, 3 March 2020-16 January 2021 (n= 45 184, 8 225 missing district)

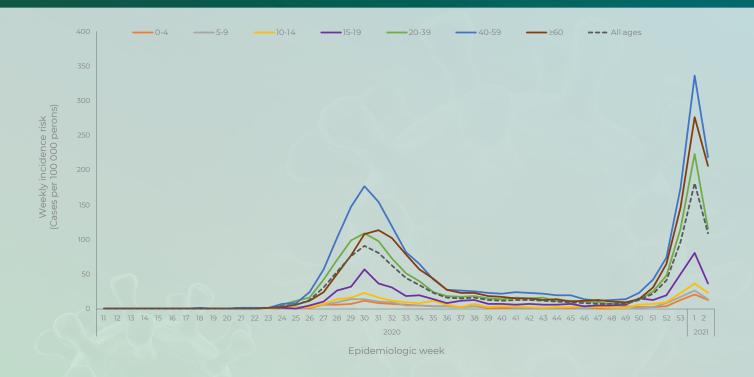


Figure 24. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group and epidemiologic week, Mpumalanga Province, 3 March 2020-16 January 2021 (n= 52 676, 733 missing age)

WEEK 2 2021

North West Province

Of the 51 380 cases reported from the North West Province, 42 917 (83.5%) had allocation by district. The Bojanala Platinum District (21 700/42 917, 50.6 %), followed by the Dr Kenneth Kaunda District (10 698/42 917, 24.9 %) contributed the majority of cases, all other districts contributed below 20% each. In week 2, the Bojanala Platinum District (99.8 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. The increase in numbers and incidence risk reported recently 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).

The majority of cases from North West Province were in the 40-59-year-age group (21 205/50 882, 41.7%), followed by 20-39-year-age group (19 550/50 882, 38.4%). In the past week, all age groups reported a decrease in weekly incidence risk, compared to the previous week. In week 1, all age groups reported weekly incidence risk higher than those reported in the first wave peaks (Figure 26).

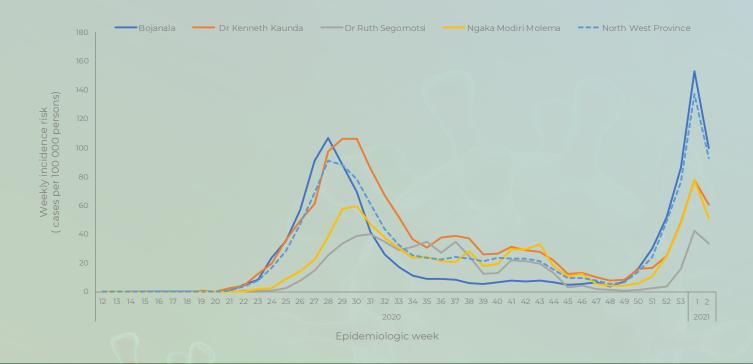


Figure 25. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, North West Province, 3 March 2020-16 January 2021 (n= 42 917, 8 463 missing district)

WEEK 2 2021

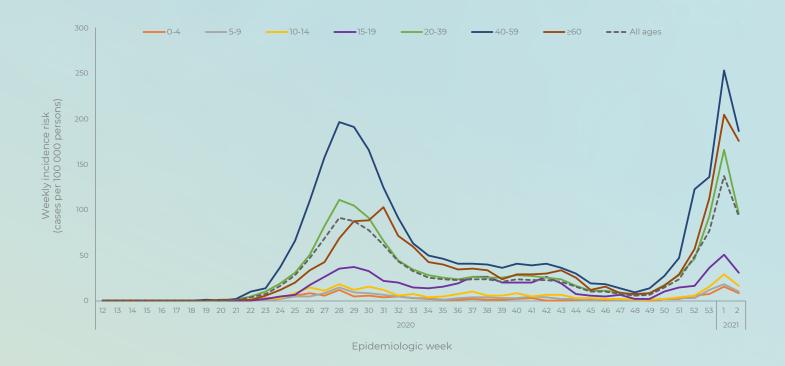


Figure 25. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, North West Province, 3 March 2020- 16 January 2021 (n= 50 882, 498 missing age)

Northern Cape Province

Of the 29 558 cases reported from the Northern Cape Province, 24 842 (84.0%) had allocation by district. The Frances Baard (8 869/24 842, 35.7%), followed by the Pixley ka Seme (6 432/24 842, 25.9%) district contributed the majority of cases, all other districts contributed below 20% each. In week 2, the Namakwa (205.0 cases per 100 000 persons), followed by Pixley ka Seme (117.6 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 recently from all the districts was higher than those reported during the first peak, except the Frances Baard and John Taolo Gaetsewe districts who continued to report weekly incidence risk below that reported during the first peak (Figure 27).

The majority of cases from Northern Cape Province were in the 20-39-year-age group (11 501/29 307, 39.2%), followed by 40-59-year-age group (10 043/29 307, 34.3%). In the past week, all age groups reported a decrease in weekly incidence risk. In week 1, all age groups reported the weekly incidence risks higher than those reported in the first wave peak (Figure 28).



Figure 27. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by district and epidemiologic week, Northern Cape Province, 3 March 2020-16 January 2021 (n= 24 842, 4 716 missing district)

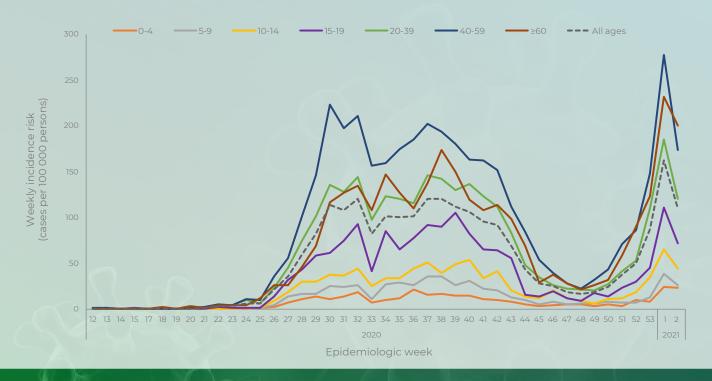


Figure 28. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week, Northern Cape Province, 3 March 2020- 16 January 2021 (n= 29 307, 251 missing age)

WEEK 2 2021

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, 1 337 926 cases, including 37 105 deaths have been reported. In the past five weeks increases in number of cases have been noted from all provinces except the Eastern Cape Province (where numbers appear to be going down) and the Western Cape Province (where trends may be related to delays in reporting). Travel during the festive season could have resulted in changes in trends reported in different provinces during this period. As people travel back to areas of employment or home after the holidays, this may again affect the trends reported in different provinces. Interprovincial travel at the current time where increases in cases are observed in several provinces could potentially increase the spread of COVID-19. It is important that during this time, people ensure to maintain measures to prevent the spread of COVID-19. These measures include limiting the number and size of social gatherings, meeting people outdoors or in well-ventilated spaces, consistent and correct use of masks, proper hand hygiene and physical distancing.

