

# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

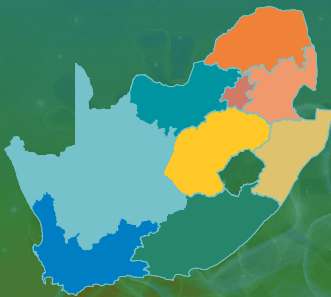


NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

SOUTH AFRICA WEEK 47 2020

## CUMULATIVE DATA FROM



## 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 21 November 2020 (week 47 of 2020). 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 21 November 2020, a total of 767 679 laboratory-confirmed COVID-19 cases had been detected in South Africa. Of these, 16 655 were cases reported since the last report. There was a 4.6% decrease in number of new cases detected in week 47 (13 539) compared to the number of new cases detected in week 46 (14 195).
- An additional 662 deaths were reported since the last report. The overall case-fatality ratio was 2.7% (20 903/767 679).
- Similar to week 46, in the past week, Eastern Cape Province reported almost half of the new cases detected in week 47 (6 695/13 539, 49.4%), followed by Western Cape Province (3 345/13 539, 24.7%), and Gauteng Province (1 301/13 539, 9.6%).
- In week 47, two provinces reported an increase in weekly incidence risk, compared to week 46, Western Cape Province 10.4 cases per 100 000 persons (28.0% increase), and the KwaZulu-Natal Province 0.9 cases per 100 000 (12.0% increase). All other provinces reported a decline in weekly incidence risk which ranged from 10.4 cases per 100 000 persons (41.4% reduction) in Northern Cape to 0.1 cases per 100 000 persons (0.8% reduction) in Gauteng Province.
- In the past week, Eastern Cape Province (99.4 cases per 100 000 persons), followed by Western Cape Province (47.7 cases per 100 000 persons), and Northern Cape Province (14.7 cases per 100 000 persons), reported the highest weekly incidence risk. The weekly incidence risk in all the other provinces was less than 10 cases per 100 000 persons.
- The increase in number of cases from Eastern Cape was mainly due to a resurgence in COVID-19 cases from Nelson Mandela Bay District, where the weekly incidence risk increased sharply from week 42 to week 46. Sarah Baartman District showed a gradual increase from week 39 to week 42, when it increased sharply to week 46. The apparent decrease in number of cases and weekly incidence risk reported from these two districts in the past week is possibly due to delays in reporting.
- The increase in numbers of cases in Western Cape Province in recent weeks was driven by a resurgence in COVID-19 cases reported from Garden Route District where the weekly incidence risk increased gradually from week 41 until week 43 when it increased sharply to date, City of Cape Town District and Cape Winelands showed a gradual increase from week 45 and week 46, respectively.
- Provincial graphs by districts and age group (except Eastern Cape Province and Western Cape Province which are included in this report) can be accessed [here](#).

INCIDENCE  
RISK FOR  
WEEK 47

22,7  
CASES PER  
100 000  
PERSONS

49,4%  
OF CASES  
REPORTED IN  
EASTERN CAPE IN  
WEEK 47

IN WEEK 47,  
THE HIGHEST  
WEEKLY  
INCIDENCE  
RISK WAS IN  
CASES AGED 55-  
59 YEARS (49,6  
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. 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 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, 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 21 November 2020, a total of 767 679 laboratory-confirmed COVID-19 cases were reported in South Africa. This is 16 655 more cases than the number reported in the last report. The number of new cases detected in week 47 (13 539) was slightly lower than the number of new cases detected in week 46 (14 195), this represented a 4.6% decrease in number of new cases compared to the previous week. Similar to past few weeks, in the past week, Eastern Cape Province reported the highest number of new cases (6 695/13 539, 49.4%), followed by Western Cape Province (3 345/13 539, 24.7%), and Gauteng Province (1 301/13 539, 9.6%) (Table 1). Five provinces, Gauteng (233 036/767 679, 30.4%), KwaZulu-Natal (126 034/767 679, 16.4%), Western Cape (125 449/767 679, 16.3%), Eastern Cape (117 374/767 679, 15.3%) and Free State (58 766/767 679, 7.7%) continued to report the majority (660 659/767 679, 86.1%) 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 46 to week 47.

The cumulative incidence risk for the country increased from 1 264.9 cases per 100 000 persons in week 46 to 1 287.6 cases per 100 000 persons in week 47. The cumulative



# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 47 2020

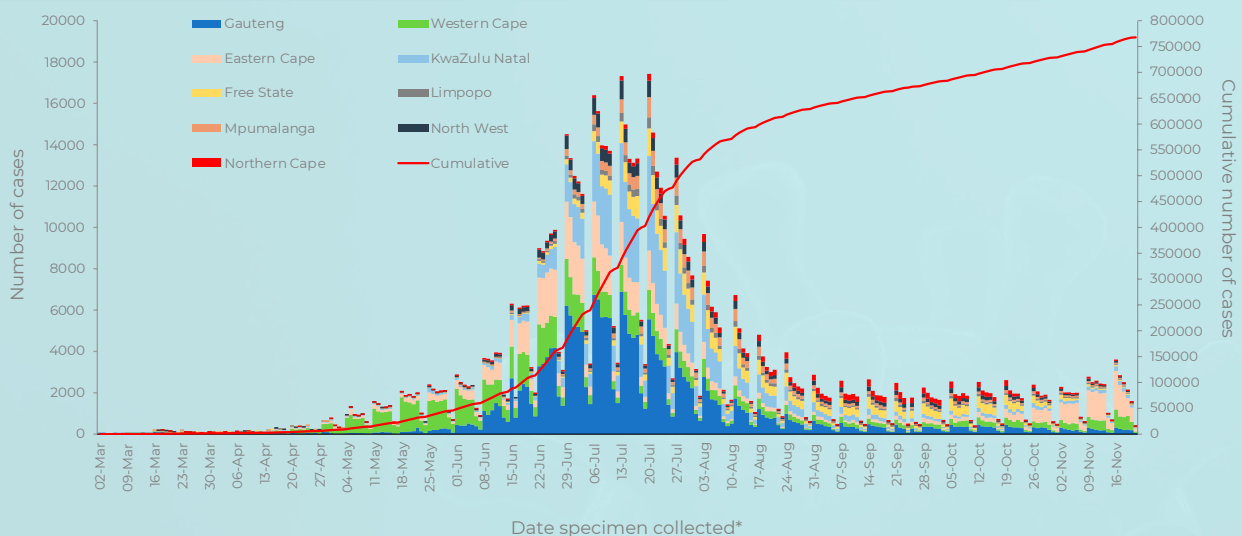
incidence risk varied by province over time (Figure 3). This is partly explained by testing differences by province (Table 1). The Free State Province reported the highest cumulative incidence risk and for the first time surpassed 2 000 cases per 100 000 persons (2 006.4 cases per 100 000 persons), followed by Western Cape Province (1 790.7 cases per 100 000 persons) which replaced Northern Cape Province (1 775.4 cases per 100 000 persons) as the province with the second highest cumulative incidence risk, Eastern Cape Province (1 743.0 cases per 100 000 persons), Gauteng Province (1 504.6 cases per 100 000 persons), and KwaZulu-Natal Province (1 092.9 cases per 100 000 persons). The other provinces continued to report cumulative incidence risk below 1 000 cases per 100 000 persons, with Limpopo Province reporting the lowest cumulative incidence risk (314.4 cases per 100 000 persons). Similar to the previous three weeks, in the past week, Eastern Cape Province reported the highest weekly incidence risk (99.4 cases per 100 000 persons), followed by Western Cape Province (47.7 cases per 100 000 persons), and Northern Cape Province (14.7 cases per 100 000 persons). The weekly incidence risk in all the other provinces remained below 10 cases per 100 000 persons. In the past week, two provinces reported an increase in weekly incidence risk, Western Cape Province weekly incidence risk increased by 10.4 cases per 100 000 persons (28.0% increase) and KwaZulu-Natal Province weekly incidence risk increased by 0.9 cases per 100 000 persons (12.0% increase). All other provinces reported a decline in weekly incidence risk, which ranged from 10.4 cases per 100 000 persons (41.4% decline) in the Northern Cape Province to 0.1 cases per 100 000 persons (0.8% decline) in Gauteng Province (Figure 4). 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), all the provinces except for Western and Eastern Cape have been reporting an overall gradual decline in weekly incidence risk. The Eastern Cape Province reported a steep increase in number of new cases and weekly incidence risk from week 43 to 46, and the Western Cape has shown a gradual increase in number of new cases and weekly incidence risk from week 44 to date.

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 46, the estimated doubling time of number of cases decreased in Eastern Cape Province (from 78.3 days to 58.8 days, 24.9% decrease), Western Cape Province (from 281.0 days to 190.7 days, 32.1% decrease), and KwaZulu-Natal Province (from 646.6 days to 607.9 days, 6.0% decrease) compared to week 45 (Figure 5).

The case-fatality ratio was 2.7% (20 903/767 679); an additional 662 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, 662 compared to 432. A crude case-fatality ratio (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 case fatality ratio may increase as a result of a more rapid reduction in the denominator compared to the numerator. The CFR may be an underestimate because deaths are more likely to be reported if a patient with COVID-19 died in hospital and deaths out of hospital may be missed; 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-21 November 2020 (n=767 679)

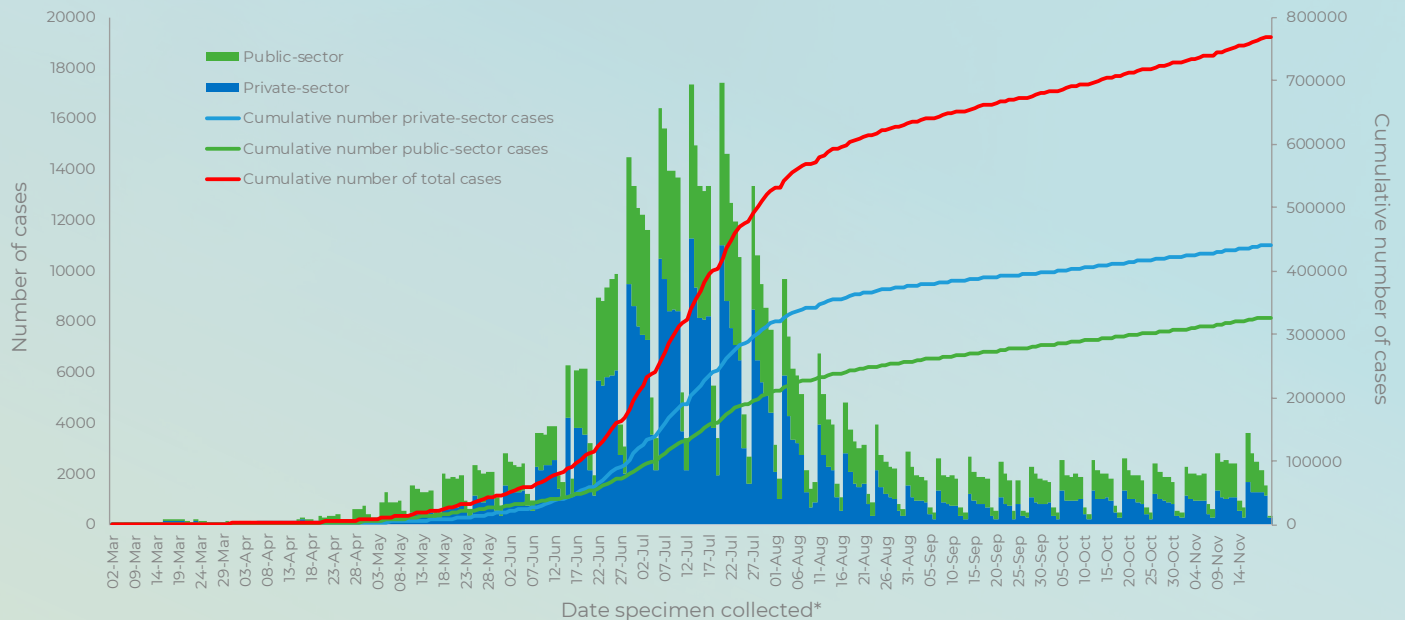


\*Date specimen received where date collected missing

# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 47 2020

**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-21 November 2020 (n=767 679)



\*Date specimen receipt where collection date missing

**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-21 November 2020 (n=767 679)

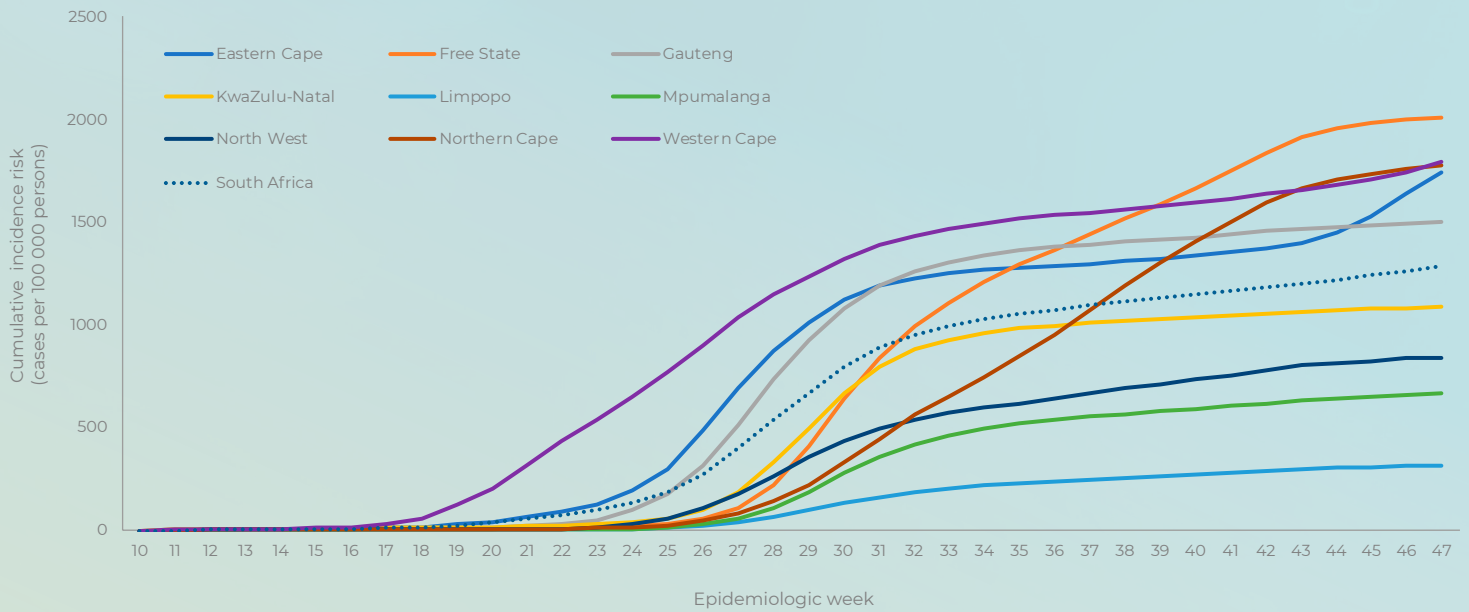
| Province      | Cumulative cases (n)<br>(percentage, n/<br>total cases in<br>South Africa) | New cases <sup>1</sup><br>detected in<br>week 47 (15-21<br>November<br>2020), n<br>(percentage <sup>2</sup> ,<br>n/total) | Population in<br>mid-2020 <sup>3</sup> , n | Cumulative<br>incidence risk<br>(cases per<br>100 000<br>persons) | Incidence risk<br>of new cases<br>detected<br>in week 47<br>(cases/100 000<br>persons) | Tests <sup>4</sup> per 100<br>000 persons,<br>15-21 November<br>2020 |
|---------------|--|---|--|---|--|--|
| Eastern Cape  | 117 374 (15.3)   | 6 695 (49.4)  | 6 734 001                                  | 1 743.0   | 99.4   | 311.8  |
| Free State    | 58 766 (7.7)   | 290 (2.1)   | 2 928 903                                  | 2 006.4   | 9.9  | 216.2  |
| Gauteng       | 233 036 (30.4)   | 1 301 (9.6)   | 15 488 137                                 | 1 504.6   | 8.4  | 207.5  |
| KwaZulu-Natal | 126 034 (16.4)   | 998 (7.4)   | 11 531 628                                 | 1 092.9   | 8.7  | 154.2  |
| Limpopo       | 18 399 (2.4)   | 158 (1.2)   | 5 852 553                                  | 314.4   | 2.7  | 36.2   |
| Mpumalanga    | 31 072 (4.0)   | 313 (2.3)   | 4 679 786                                  | 664.0   | 6.7  | 106.6  |
| North West    | 34 597 (4.5)   | 249 (1.8)   | 4 108 816                                  | 842.0   | 6.1  | 80.9   |
| Northern Cape | 22 952 (3.0)   | 190 (1.4)   | 1 292 786                                  | 1 775.4   | 14.7   | 185.9  |
| Western Cape  | 125 449 (16.3)   | 3 345 (24.7)  | 7 005 741                                  | 1 790.7   | 47.7   | 305.7  |
| Unknown       | 0  | 0   | 0  |   |  |  |
| <b>Total</b>  | <b>767 679</b>   | <b>13 539</b>   | <b>59 622 350</b>                          | <b>1 287.6</b>  | <b>22.7</b>  | <b>187.0</b>   |

<sup>1</sup>New cases refer to cases whose samples were collected or received in the current reporting week; <sup>2</sup>Percentage=n/total number of new cases (specimen collected or received in current reporting week); <sup>3</sup>2020 Mid-year population Statistics South Africa <sup>4</sup>Data on number of tests conducted sourced from COVID-19 weekly testing report of the same reporting week

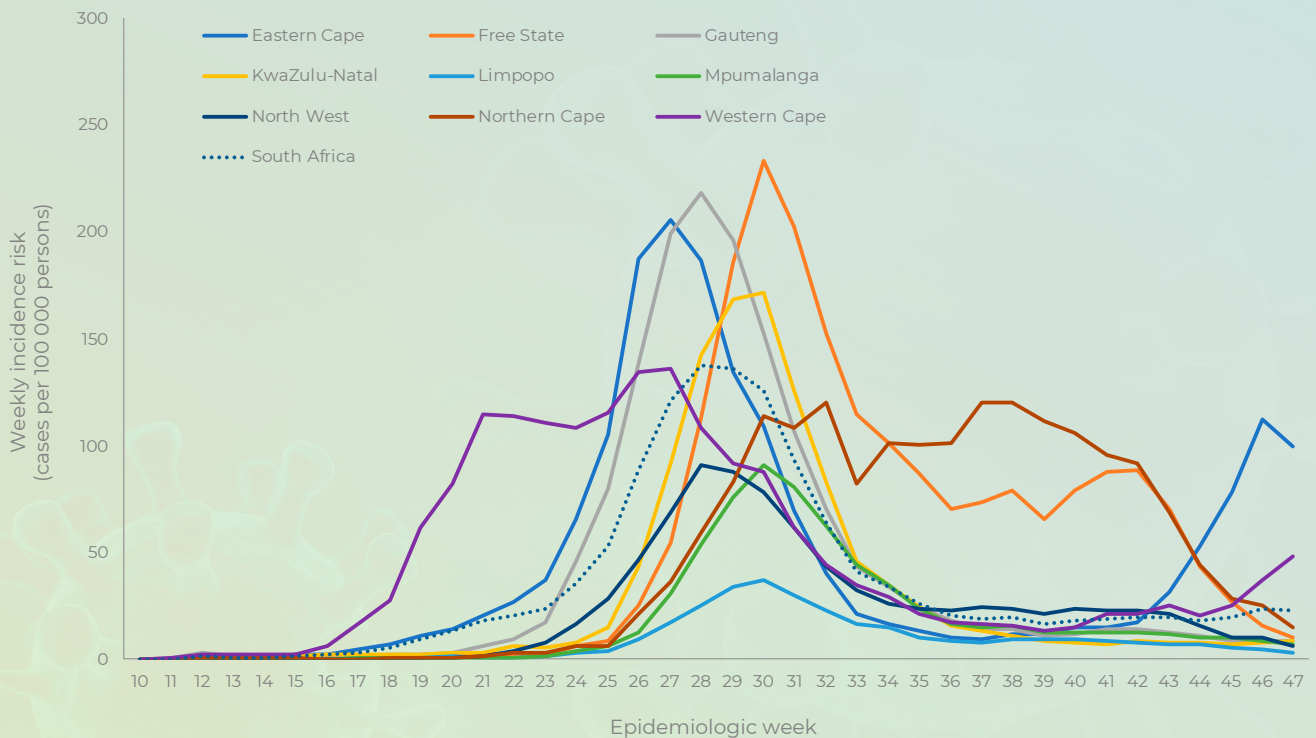
# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 47 2020

**Figure 3.** Cumulative incidence risk of PCR-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March-21 November 2020 (n=767 679)

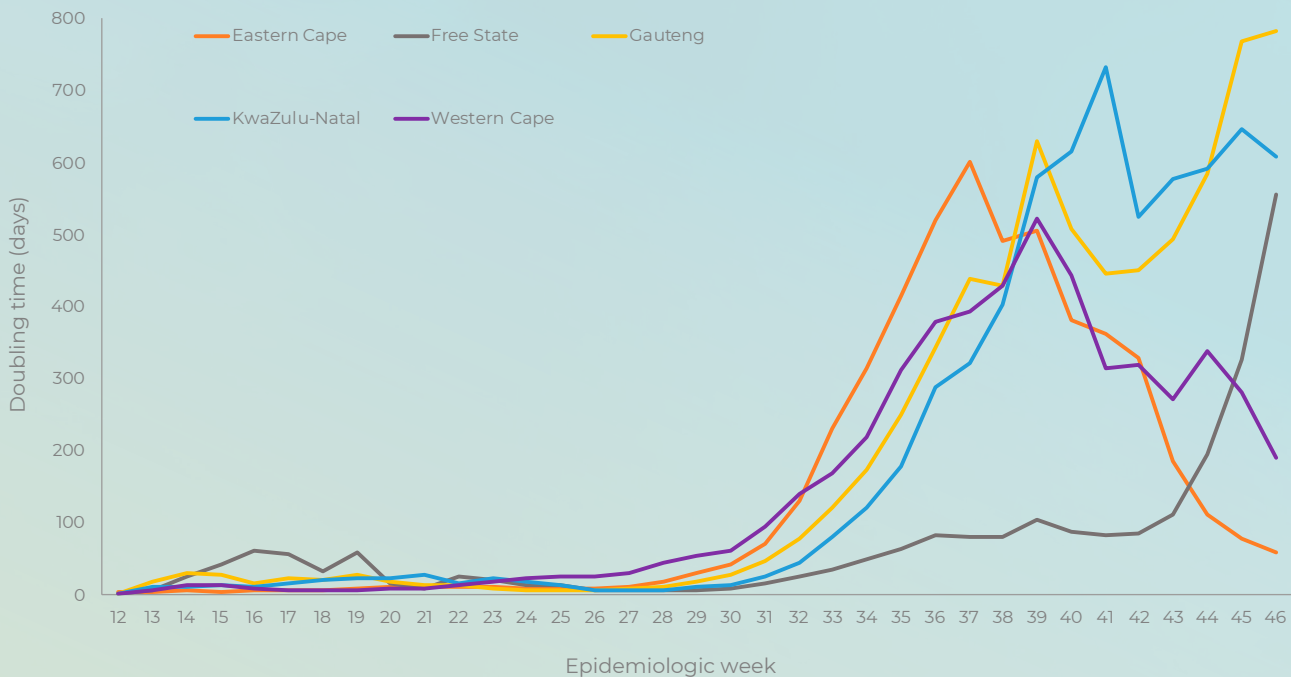


**Figure 4.** Weekly incidence risk of PCR-confirmed cases of COVID-19 by province and epidemiologic week, South Africa, 3 March-21 November 2020 (n=767 679)





**Figure 5.** Doubling time of number of PCR-confirmed cases of COVID-19 by province (for 5 provinces with the majority of cases) and epidemiologic week, South Africa, 23 March-14 November 2020 (n=754 140)



## 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 39 years with an interquartile range (IQR) of 29-52 years. The distribution of cases varied by age, with highest number of all cases to date in the 35-39-year (95 444 /761 833, 12.5%) and 30-34-year (93 499 /761 833, 12.3%) 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 (1 489/13 460, 11.1%) followed by the 30-34-year age group (1 372/13 460, 10.2%). The median age for cases reported in week 47 was similar (41 years, IQR 29-54), to that of total cases (39 years). The highest cumulative incidence risk remained among cases aged 50-54 years (2 631.0 cases per 100 000 persons), followed by 55-59 years (2 511.1 cases per 100 000 persons) and 45-49 years (2 410.5 cases per 100 000 persons). The lowest cumulative incidence risk was reported in the younger age-groups, 157.9 cases per 100 000 persons and 192.8 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 47 was reported in cases aged 55-59 years (49.6 cases per 100 000 persons), followed closely by cases in the 50-54-year age group (49.4 cases per 100 000 persons) and the lowest weekly incidence risk was in the 0-4-

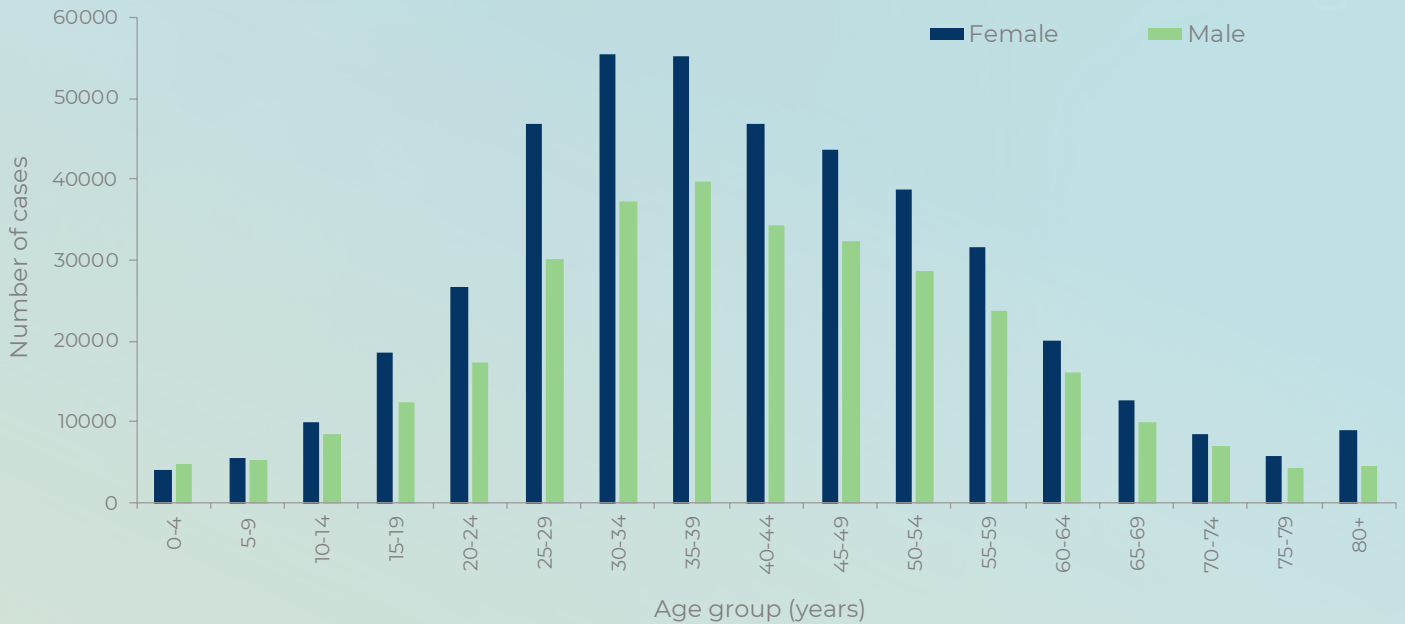
year age group (2.2 cases per 100 000 persons).

To date, the majority of COVID-19 cases reported were female (58.2%, 442 642/761 081). This trend continued in the past week where 57.1% (7 681/13 447) of cases were female. The cumulative incidence risk has remained consistently higher among females (1 441.5 cases per 100 000 persons) than among males (1 085.7 cases per 100 000 persons) (Figure 8). The peak cumulative incidence risk was in the 50-54 year age group (2 775.0 cases per 100 000 persons) for females, and in the 55-59 (2 433.2 cases per 100 000 persons) and 50-54-year-age group (2 432.1 cases per 100 000 persons) for males (Figure 9). In week 47, the highest weekly incidence risk for females was in the 50-54-year-age group (53.0 cases per 100 000 persons), and for males 55-59-year-age group (49.3 cases per 100 000 persons), followed closely by 60-54-year-age group (49.2 cases per 100 000 persons). 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.

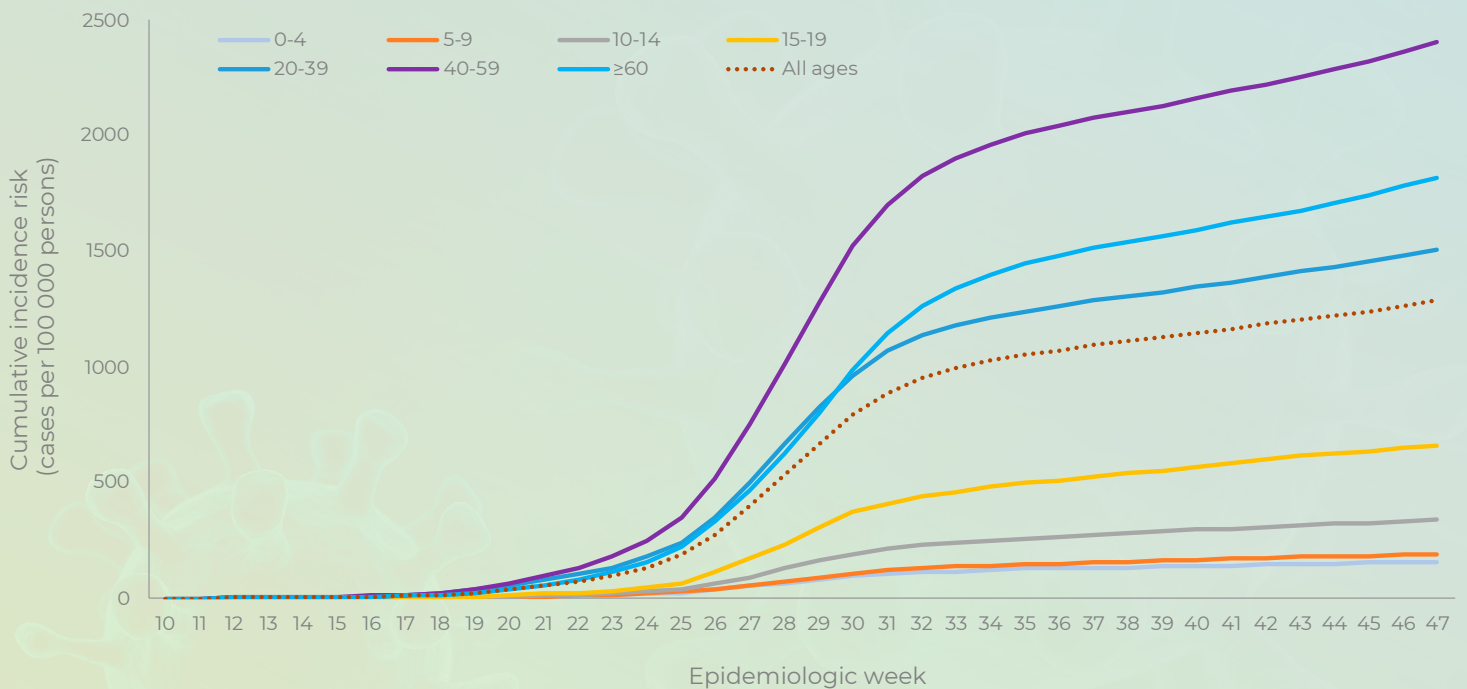
# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 47 2020

**Figure 6.** Number of laboratory-confirmed cases of COVID-19 by age group and sex, South Africa, 3 March-21 November 2020 (n=761 081, sex/age missing for 6 598)



**Figure 7.** Cumulative incidence risk of PCR-confirmed cases of COVID-19 by age group in years and epidemiologic week, South Africa, 3 March-21 November 2020 (n=761 833, 5 846 missing age)

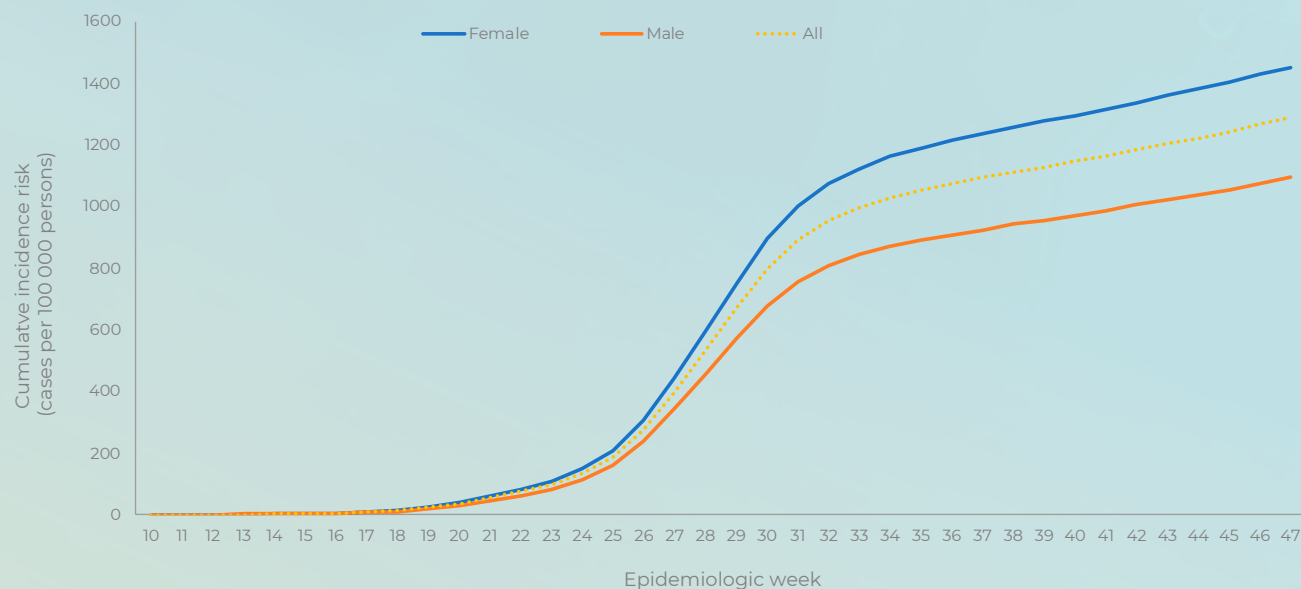




# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

WEEK 47 2020

**Figure 8.** Cumulative incidence risk by sex and epidemiologic week, South Africa, 3 March-21 November 2020 (n=761 081, sex missing for 6 598)

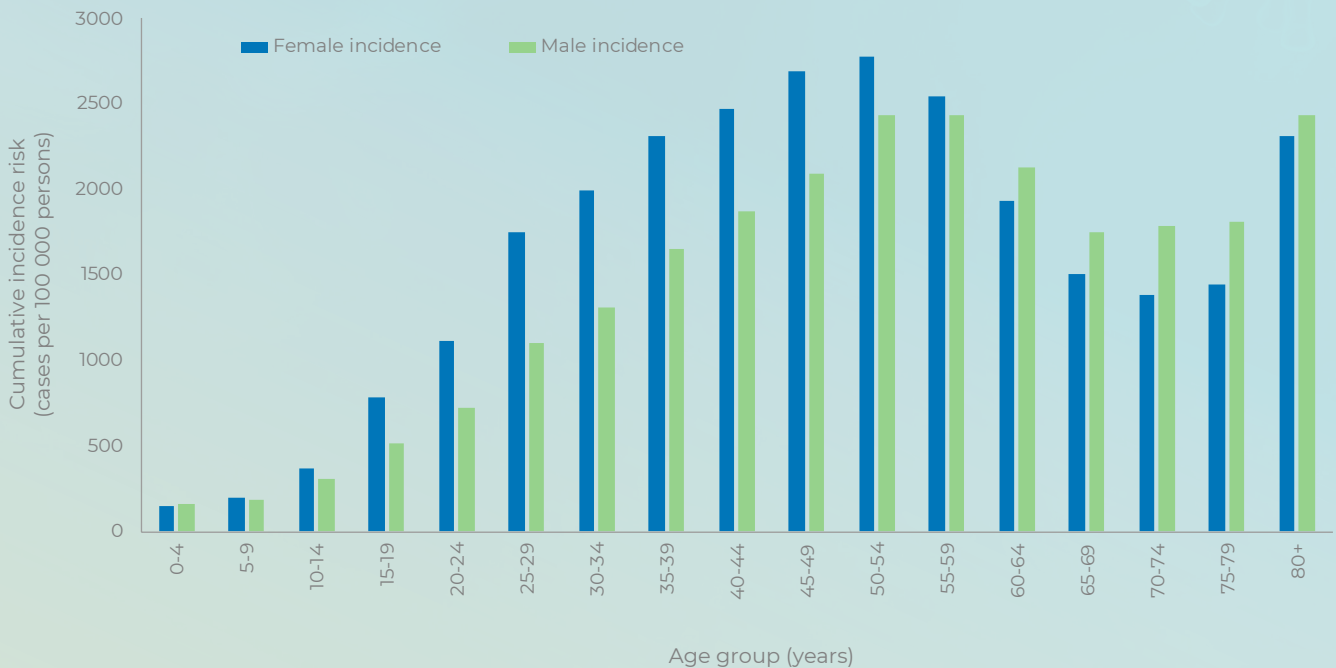


**Table 2.** Number of laboratory-confirmed cases of COVID-19 and cumulative/weekly incidence risk by age group, South Africa, 3 March-21 November 2020, n= 761 833, 5 846 missing age

| Age group (years) | Cumulative cases (n) (percentage, n/ total cases in South Africa) | New cases <sup>1</sup> detected in week 47 (15-21 November 2020), n (percentage <sup>2</sup> , n/ total) | Population in mid-2020 <sup>3</sup> , n | Cumulative incidence risk (cases per 100 000 persons) | Incidence risk of new cases detected in week 47 (cases/100 000 persons) |
|-------------------|---|--|---|---|---|
| 0-4               | 9 068 (1.2)   | 128 (1.0)  | 5743 450                                | 157.9   | 2.2   |
| 5-9               | 11 020 (1.4)  | 236 (1.8)  | 5715 952                                | 192.8   | 4.1   |
| 10-14             | 19 076 (2.5)  | 391 (2.9)  | 5591 553                                | 341.2   | 7.0   |
| 15-19             | 31 555 (4.1)  | 560 (4.2)  | 4774 579                                | 660.9   | 11.7  |
| 20-24             | 44 479 (5.8)  | 853 (6.3)  | 4823 367                                | 922.2   | 17.7  |
| 25-29             | 77 686 (10.2)   | 1 284 (9.5)  | 5420 754                                | 1 433.1   | 23.7  |
| 30-34             | 93 499 (12.3)   | 1 372 (10.2)   | 5641 750                                | 1 657.3   | 24.3  |
| 35-39             | 95 444 (12.5)   | 1 489 (11.1)   | 4798 293                                | 1 989.1   | 31.0  |
| 40-44             | 81 752 (10.7)   | 1 349 (10.0)   | 3733 942                                | 2 189.4   | 36.1  |
| 45-49             | 76 403 (10.0)   | 1 297 (9.6)  | 3169 648                                | 2 410.5   | 40.9  |
| 50-54             | 67 649 (8.9)  | 1 271 (9.4)  | 2571 263                                | 2 631.0   | 49.4  |
| 55-59             | 55 529 (7.3)  | 1 097 (8.2)  | 2211 309                                | 2 511.1   | 49.6  |
| 60-64             | 36 461 (4.8)  | 829 (6.2)  | 1796 316                                | 2 029.8   | 46.2  |
| 65-69             | 22 779 (3.0)  | 544 (4.0)  | 1408 665                                | 1 617.1   | 38.6  |
| 70-74             | 15 607 (2.0)  | 342 (2.5)  | 1007 174                                | 1 549.6   | 34.0  |
| 75-79             | 10 152 (1.3)  | 212 (1.6)  | 637 062                                 | 1 593.6   | 33.3  |
| ≥80               | 13 674 (1.8)  | 206 (1.5)  | 577 273                                 | 2 368.7   | 35.7  |
| Unknown           | 5 846   | 79   |   |   |   |
| <b>Total</b>      | <b>767 679</b>  | <b>13 539</b>  | <b>59 622 350</b>                       | <b>1 287.6</b>  | <b>22.7</b>   |

<sup>1</sup>New cases refer to cases whose samples were collected or received in the current reporting week; <sup>2</sup>Percentage=n/total number of new cases (specimen collected or received in current reporting week); <sup>3</sup>2020 Mid-year population Statistics South Africa

**Figure 9.** Cumulative incidence risk by age group and sex, South Africa, 3 March-21 November 2020 (n=761 081, sex/age missing for 6 598)



## Trends of COVID-19 cases in Eastern Cape and Western Cape Province

Eastern Cape Province and Western Cape Province have contributed 31.6% (242 823/767 679) of total cases in South Africa to date. In the past few weeks both provinces have reported an increase in number of new cases and weekly incidence risk.

### Eastern Cape Province

Of the 117 374 cases reported from Eastern Cape Province, 104 134 (88.7%) had allocation by district. Nelson Mandela Bay District (31 934/104 134, 30.7%) followed by Buffalo City District (18 415/104 134, 17.7%) contributed the majority of cases in the Eastern Cape Province. In the past week, Nelson Mandela Bay District (285.8 cases per 100 000 persons), followed by Sarah Baartman District (253.8 cases per 100 000 persons), Buffalo City District (93.4 cases per 100 000 persons), Amathole District (42.3 cases per 100 000 persons), and Chris Hani District (36.6 cases per 100 000 persons) reported the highest weekly incidence risk. In week 47, two districts, the Buffalo City District (13.7 cases per 100 000, 17.2% increase), and O.R Tambo District (4.2 cases per 100 000 persons, 75.3% increase), reported an

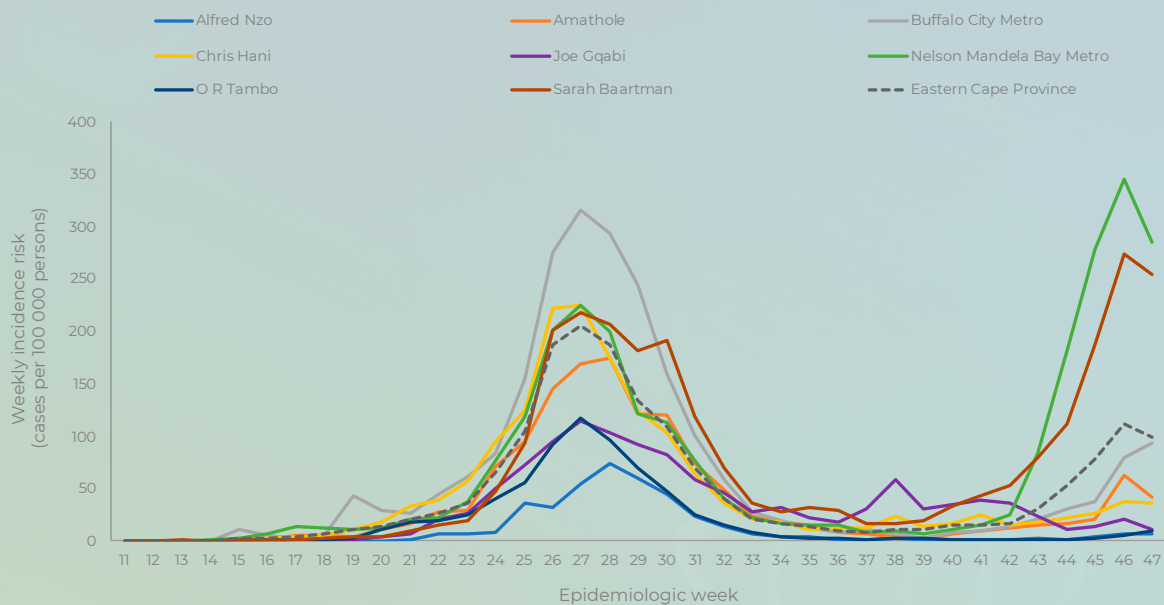
increase in weekly incidence risk, and all other districts reported a decline in weekly incidence risk, compared to week 46. The decline in weekly incidence risk ranged from 59.2 cases per 100 000 persons in Nelson Mandela Bay District to 0.6 cases per 100 000 persons in Alfred Nzo District (Figure 10). The weekly incidence risk for Nelson Mandela Bay District increased sharply from week 42 to week 46. Sarah Baartman District showed a gradual increase from week 39 to week 42, when it increased sharply to week 46. The Buffalo City District showed a gradual increase from week 44 to date. The peak in weekly incidence risk (345 cases per 100 000 persons) reported in Nelson Mandela Bay in week 46 was much higher than that reported during the first peak (226 cases per 100 000 persons) in week 27. Similarly the current peak incidence risk reported in Sarah Baartman in week 46 was higher than that reported during the first peak (218 cases per 100 000 persons) in week 27. However, testing practices may have changed since the first peaks making it difficult to make an assessment of whether the current increase in number of cases and incidence risk is truly higher than that experienced during the first peak. The apparent decrease in number of cases and weekly incidence risk reported from Nelson Mandela Bay District and Sarah Baartman District in the past week is possibly due to delays in reporting.

# COVID-19 WEEKLY EPIDEMIOLOGY BRIEF

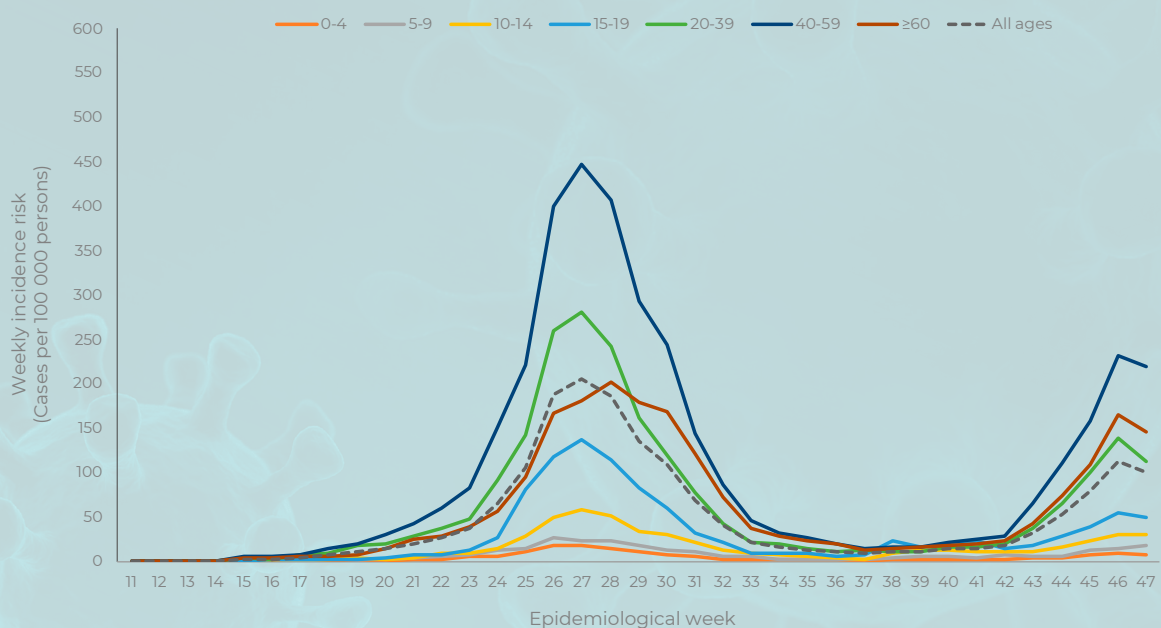
WEEK 47 2020

The majority of cases from Eastern Cape Province were in the 40-59-year age group (43 806/116 451, 37.6%) followed closely by the 20-39-year old age group (42 931/116 451, 36.9%). In the past week, individuals in the 40-59-year age group (219.6 cases per 100 000 persons), followed by ≥60-year age group (146.0 cases per 100 000 persons), 20-39-year age group (112.4 cases per 100 000 persons), 15-19-year age group (50.2 cases per 100 000 persons), and 10-14-year age group (30.5 cases per 100 000 persons) reported the highest weekly incidence risk, the other age groups reported weekly incidence risk below 20 cases per 100 000 persons. Compared to the previous week, two age groups (5-9 and 10-14-year age groups) reported an increase in weekly incidence risk, the increase ranged from 3.6 cases per 100 000 persons in the 5-9-year age group (26.0% increase) to 0.5 cases per 100 000 persons (1.7% increase) in the 10-14-year age group (Figure 11).

**Figure 10.** Weekly incidence risk of PCR-confirmed cases of COVID-19 by district and epidemiologic week, Eastern Cape Province, 3 March-21 November 2020 (n= 104 134, 13 240 missing district)



**Figure 11.** Weekly incidence risk of PCR-confirmed cases of COVID-19 by age group in years and epidemiologic week, Eastern Cape Province, 3 March-21 November 2020 (n= 116 451, 923 missing age)





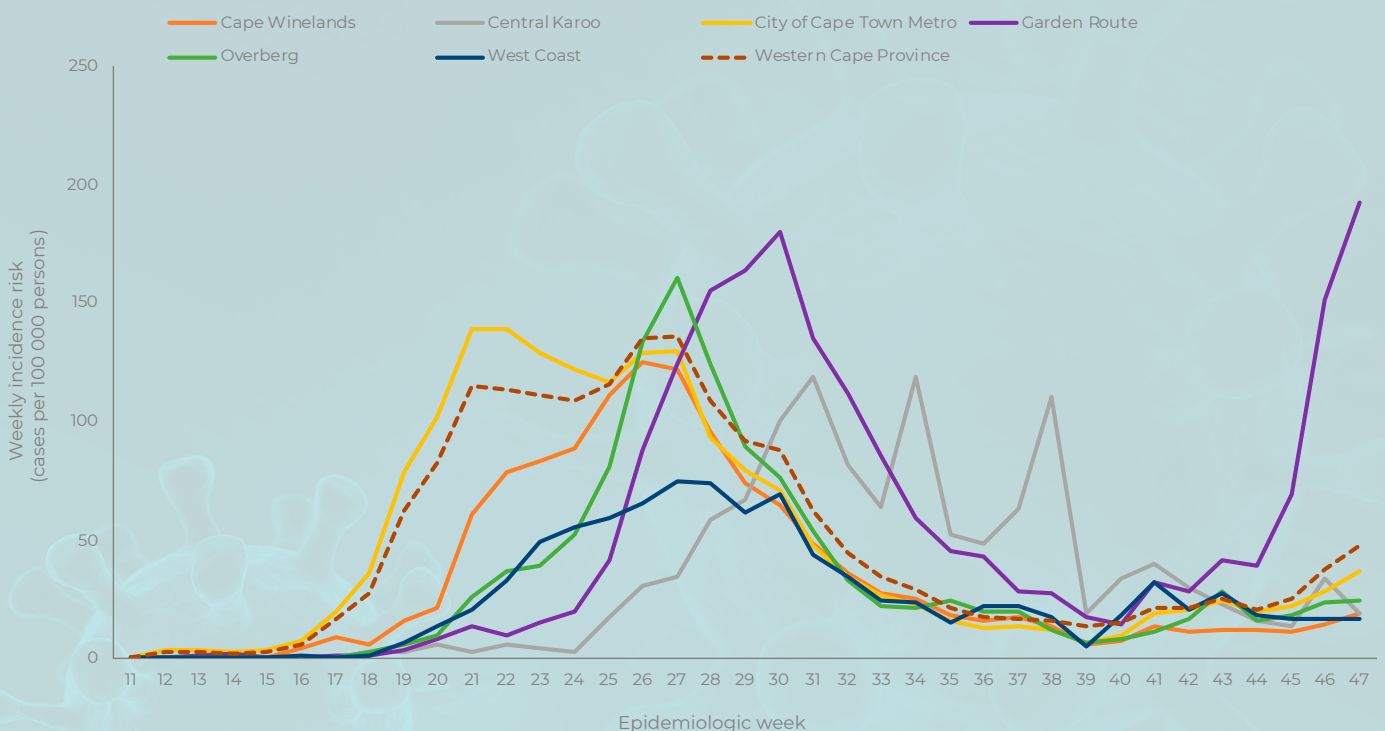
## Western Cape Province

Of the 125 449 cases reported from Western Cape Province, 114 407 (91.2%) of cases had allocation by district. City of Cape Town District (81 540/114 407, 71.3%) followed by Garden Route District (12 114/114 407, 10.6%), and Cape Winelands District (11 878/114 407, 10.4%) contributed the majority of cases, all other districts contributed <10% each. As in the previous four weeks, the highest weekly incidence risk in week 47 was reported by Garden Route District (192.1 cases per 100 000 persons) followed by City of Cape Town District (36.9 cases per 100 000 persons) and Overberg District (24.0 cases per 100 000 persons) (Figure 12). The number of new cases and weekly incidence risk in Garden Route District increased gradually from week 41 and sharply from week 43 to date, whereas the number of new cases and weekly incidence risk in City of Cape Town District increased gradually from week 45 to date. The weekly incidence risk reported in Garden Route District in week 47 was higher than that reported during the

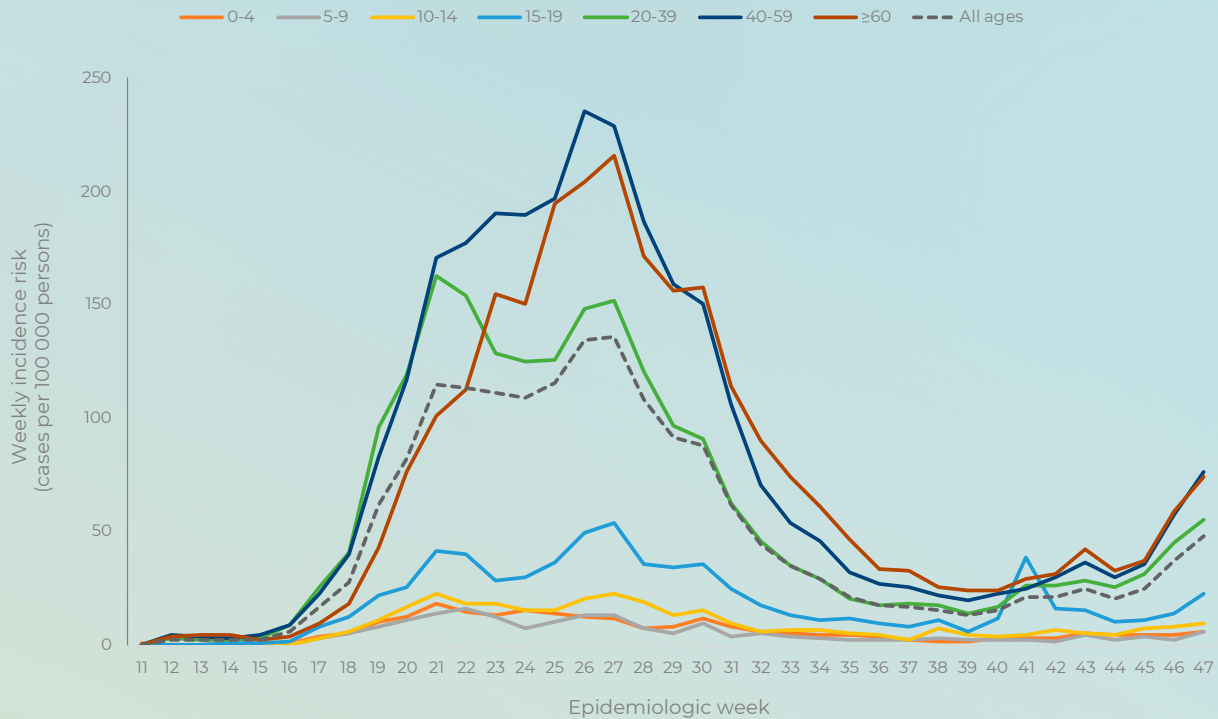
first peak (180 cases per 100 000 persons) in week 30. However, testing practices may have changed since the first peak making it difficult to make an assessment of whether the current increase in number of cases and incidence risk is truly higher than that experienced during the first peak.

The majority of cases from Western Cape Province were in the 20-39-year old age group (52 266/125 002, 41.8%) followed by the 40-59-year age group (46 148/125 002, 36.9%). In the past week, the 40-59-year age group (75.8 cases per 100 000 persons), followed by ≥60-year age group (74.2 cases per 100 000 persons), 20-39-year age group (54.9 cases per 100 000 persons), and 15-19-year-age group (22.6 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 week 47, all age groups reported an increase in weekly incidence risk, compared to week 46. The increase ranged from 18.4 cases per 100 000 persons (32.1% increase) in 40-59-year age group to 1.4 cases per 100 000 persons (17.0% increase) in 10-14-year age group (Figure 13).

**Figure 12.** Weekly incidence risk of PCR-confirmed cases of COVID-19 by district and epidemiologic week, Western Cape Province, 3 March-21 November 2020 (n= 114 407, 11 042 missing district)



**Figure 13.** Weekly incidence risk of PCR-confirmed cases of COVID-19 by age group in years and epidemiologic week, Western Cape Province, 3 March-21 November 2020 (n= 125 002, 447 missing age)



## Limitations

This report is based on laboratory-based surveillance of PCR-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 case-fatality ratio 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, 767 679 cases, including 20 903 deaths have been reported. The number of newly detected laboratory-confirmed cases of COVID-19 in South Africa continued to decrease week on week, since week 28 in seven provinces. In the Eastern Cape Province a steep increase in number of new cases and weekly incidence risk, due to a resurgence of cases mostly in Nelson Mandela Bay and to a lesser extent Sarah Baartman District, was reported from week 43 to week 46. Numbers have stabilised in week 47, possibly related to reporting delays. From week 40 to date, the Western Cape Province showed a gradual increase in number of new cases and weekly incidence risk mostly driven by an increase in cases reported from Graden Route and City of Cape Town Metro. The weekly incidence risk of cases per 100 000 persons continued to decrease compared to the preceding week, except for Western Cape Province which reported an increase, however delays in reporting could possibly have masked increases in other provinces.