

SOUTH AFRICA WEEK 20 2020

CUMULATIVE DATA FROM













PROVINCES AT AGLANCE

NORTH WEST

CASES		70 IN TOTAL	5.5 /100,000*
TESTS	III	8 141 IN TOTAL	644 /100,000**

CASES		37 IN TOTAL	O.9 /100,000*
TESTS	III	4 426 IN TOTAL	110 /100,000**

WESTERN CAPE

CASES		9 293 IN TOTAL	135.8 /100,000*
TESTS	III	101 244 IN TOTAL	1 479 /100,000**

EASTERN CAPE

CASES	1 936 IN TOTAL	28.8 /100,000*
TESTS	46 284 IN TOTAL	690



* Incid	dence risk	: - cases per	· 100,000	persons
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LIMPOPO

CASES	78 IN TOTAL	O.7 /100,000*
ESTS	9 941 IN TOTAL	166

CASES		2 329 IN TOTAL	15.4 /100,000*
TESTS	III	151 190 in total	996 /100,000**

CASES	71 IN TOTAL	1.2 /100,000*	
ESTS	13 485	294	

CASES		1 542 IN TOTAL	13.7 /100,000*
TESTS	Ш	79 608 IN TOTAL	705 /100,000**

CASES		158 IN TOTAL	5.5 /100,000*
TESTS	Ш	22 177 IN TOTAL	768 /100,000**

Note: 24 377 tests have not been allocated to a province

WEEK 20 2020

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 information from several surveillance systems that are used to monitor the coronavirus disease 2019 (COVID-19) pandemic in South Africa. This report is based on data collected up to 16 May 2020 (week 20 of 2020). Note: COVID-19 is the name of the disease and SARS-CoV-2 is the name of the virus.

Highlights

- As of 23:59 on 16 May 2020, a total of 15 514 laboratory-confirmed COVID-19 cases had been detected in South Africa. Of these 5 499, almost double the number of new cases reported last week, were reported in this reporting period. On the 1st May, South Africa moved from stage 5 to 4 of lock-down, this may be associated with increased transmission and the number of cases reported.
- The public-sector continues to report more cases than the privatesector. This may reflect the ongoing increasing access to testing in the public sector as well as spread of COVID-19 cases.
- Laboratory PCR testing for SARS-CoV-2 continues to increase steadily week-on-week with continued intensive contact tracing/ testing and targeted community symptom screening/ referral for testing. In the last week, an additional 119 537 tests were performed, this was 35 742 more tests than the number of tests conducted in the previous week.
- Western Cape Province continues to report the highest total number of cases, 60% (9 293/15 514) of total cases, an increase of 9% since the last report. The incidence risk (cumulative incidence) was highest in the Western Cape Province (135.8 cases per 100 000 persons; 95% confidence interval [CI] 133.0-138.6) followed by Eastern Cape (28.8 per 100 000 persons 95% CI 27.6-30.2) and Gauteng (15.4 per 100 000 persons; 95%CI 14.7-16.0). In the last week incidence increased by 60.3, 10.6 and 2.5 persons per 100 000 persons in Western Cape, Eastern Cape and Gauteng, respectively.
- The median age of laboratory-confirmed cases was 37 years (interquartile range [IQR], 28-49 years). Children aged <10 years accounted for 3.0% (463/15450). The incidence risk was highest among females in the 35-44 years age group (57.3 cases per 100 000 person).



WEEK 20 2020 LABORATORY-CONFIRMED CASES OF COVID-19 IN SOUTH AFRICA

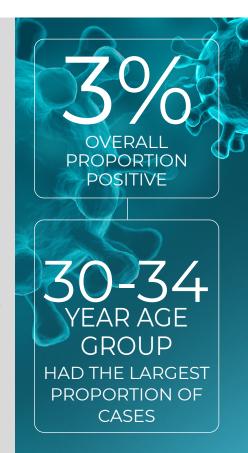
LABORATORY-CONFIRMED CASES OF COVID-19 IN SOUTH AFRICA

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. Targeted community symptom screening and referral for PCR testing was implemented in April 2020. Contacts of cases were traced and tested if symptomatic. However, in some provinces, asymptomatic contacts were tested. Laboratories used any one of several in-house and commercial PCR assays to test for the presence of SARS-CoV-2 RNA. Test results were automatically fed into a data warehouse. 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 first positive SARS-CoV-2 PCR test. We used 2019 mid-year population estimates from Statistics South Africa to calculate the incidence risk or cumulative incidence (expressed as cases per 100 000 persons). Outcomes of cases (i.e. deaths or recoveries) were not collected through this surveillance system.

National and provincial trends

As of 16 May 2020, 460 873 tests were performed (119 537 additional test since last report). In total, 15 514 cases were detected in South Africa (5 499 new cases since last report) (Figure 1). The overall proportion positive remains at 3%. Western Cape Province continues to report the highest proportion of cases (9 293/15 514, 60%), followed by Gauteng 2 329/15 514, 15 %) and Eastern Cape (1 936/15 514, 12%) (Table 1). Western Cape had the highest incidence risk (135.8 cases per 100 000 persons) followed by Eastern Cape (28.8 per 100 000 persons) and Gauteng (15.4 per 100 000 persons). Northern Cape still had the lowest incidence risk (0.9 cases per 100 000 persons). The cumulative incidence risk for the country was 26.4 per 100 000 persons. However, the cumulative incidence risk varied by province over time (Figure 4). This is partly explained by testing differences by province (Table 1). The number of tests performed per 100 000 persons ranged from 110 in the Northern Cape Province to 1 479 in the Western Cape Province.



WEEK 20 2020 LABORATORY-CONFIRMED CASES OF COVID-19 IN SOUTH AFRICA

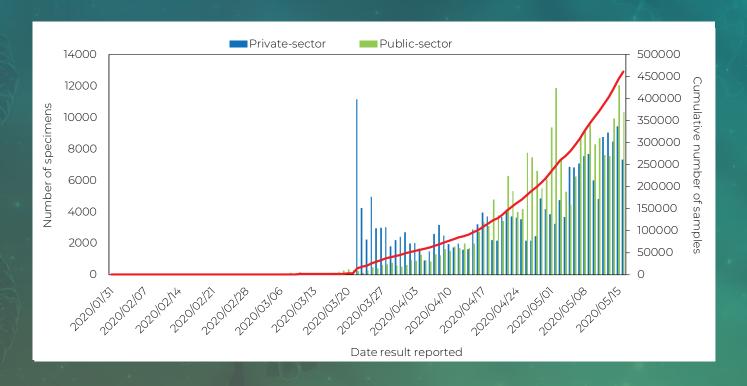
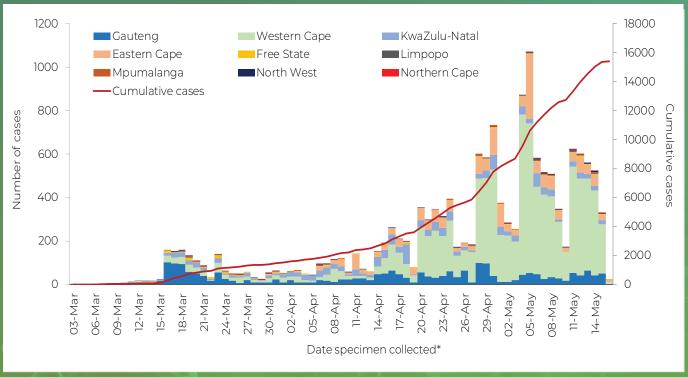


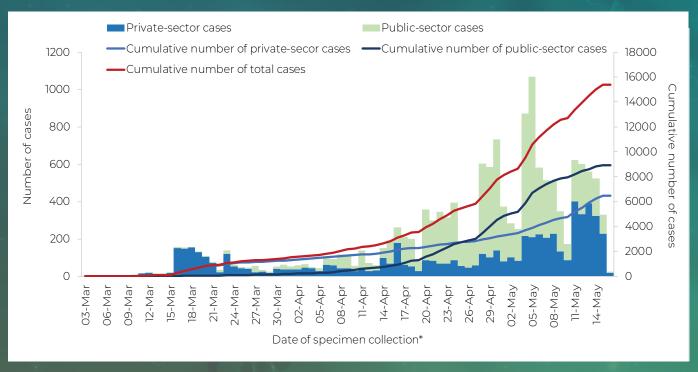
Figure 1. Number and cumulative number of specimens tested for SARS-CoV-2, by testing laboratory sector and date of specimen collection, South Africa, 31 January 2020-16 May 2020 (n=460 873)



*Date of specimen receipt where date of specimen collection was missing

Figure 2. Number and cumulative number of laboratory-confirmed cases of COVID-19 by date of specimen collection, South Africa, 3 March-16 May 2020 (n=15 396, 118 missing date of specimen collection)

WEEK 20 2020 LABORATORY-CONFIRMED CASES OF COVID-19 IN SOUTH AFRICA



*Date of specimen receipt where date of specimen collection was missing

Figure 3. Number and cumulative number of laboratory-confirmed cases of COVID-19, by testing laboratory sector and date of specimen collection, South Africa, 3 March-16 May 2020 (n 15 396, 118 missing date of specimen collection)

Table 1. Number and incidence risk of laboratory-confirmed cases of COVID-19 and testing per 100 000 persons by province, South Africa, 3 March 16 May 2020 (n=15514)

Province	Cases (n)	Proportion (n/total) (95% confidence interval)	Population in mid-2019* (n)	Incidence risk (cases per 100 000 persons)	Tests per 100 000 persons
Eastern Cape	1936	12.5 (11.9-13.0)	6 712 276	28.8 (27.6-30.2)	690
Free State	158	1.0 (0.9-1.2)	2 887 465	5.5 (4.7-6.4)	768
Gauteng	2329	15.0 (14.5-15.6)	15 176 115	15.4 (14.7-16.0)	996
KwaZulu-Natal	1542	9.9 (9.5-10.4)	11 289 086	13.7 (12.0-14.4)	705
Limpopo	78	0.5 (0.4-0.6)	5 982 584	0.7 (0.5-0.9)	166
Mpumalanga	71	0.6 (0.4-0.6)	4 592 187	1.2 (0.9-1.5)	294
North West	70	0.4 (0.4-0.6)	4 027 160	5.5 (4.3-7.0)	644
Northern Cape	37	0.2 (0.2-0.3)	1 263 875	0.9 (0.6-1.3)	110
Western Cape	9293	60.0 (59.1-60.7)	6 844 272	135.8 (133.0-138.6)	1479
South Africa	15514	100	58 775 020	26.4 (26.0-26.8)	784

^{*}Statistics South Africa 2019 mid-year population estimates

WEEK 20 2020 LABORATORY-CONFIRMED CASES OF COVID-19 IN SOUTH AFRICA

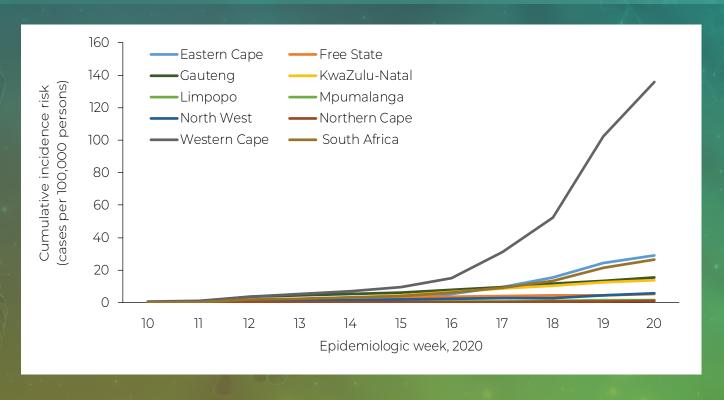
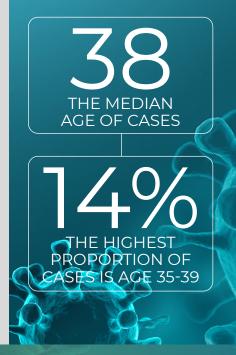


Figure 4. Cumulative incidence risk of PCR-confirmed COVID-19 by province and epidemiologic week, South Africa, 3 March -16 May 2020 (n=15 514)

CHARACTERISTICS OF CASES BY AGE AND SEX

The median age of cases was 37 years (interquartile range [IQR], 29-49 years). The largest proportion of cases was in the 30-34-year age group (2199/15450, 15%) followed by the 35-39-year age group (2164/15450, 14%) (Figure 5). The incidence risk was highest among those in the 40-44 year age group (48.0 cases per 100 000 persons), followed by those in the 35-39-year age group (47.3 cases per 100 000 persons), with the lowest incidence risk in the 5-9-year age group (3.5 cases per 100 000 persons). (Figure 6 and Table 2). Fifty-seven per cent (8 878/15 514) (95% CI, 56- 58 %) of the cases were female. The overall incidence risk was higher among females than males (29.5 cases per 100 000 persons [95%CI 28.9-30.1] versus 22.5 cases per 100 000 persons [95% CI 21.9-23.1). However, this varied by age group with the peak incidence risk among females aged 35-44 years and males aged 50-54 years (Figure 6). This may also be partially explained by varying testing practices by age and sex (data not shown).



WEEK 20 2020 CHARACTERISTICS OF CASES BY AGE AND SEX

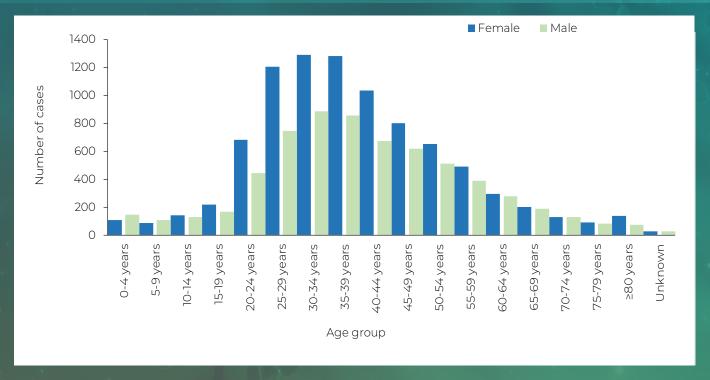


Figure 5. Number of laboratory-confirmed cases of COVID-19 by age group and sex, South Africa, 3 March-16 May 2020 (n=15 514)

Table 2. Number of cases and incidence risk by age group, South Africa, 3 March 2020-16 May 2020

Age group (years)	Cases (n)	Population in mid-2019*, n	Incidence risk (cases per 100 000 persons)
0-4	260	5 733 946	4.5
5-9	203	5 737 439	3.5
10-14	280	5 427 902	5.2
15-19	395	4 660 002	8.5
20-24	1143	4 914 186	23.3
25-29	1972	5 528 571	35.7
30-34	2199	5 537 963	39.7
35-39	2164	4 571 175	47.3
40-44	1721	3 585 408	48.0

WEEK 20 2020 CHARACTERISTICS OF CASES BY AGE AND SEX

47.0
47.0
46.3
40.4
32.4
28.5
27.7
29.3
35.7
26.4

^{*}Statistics South Africa

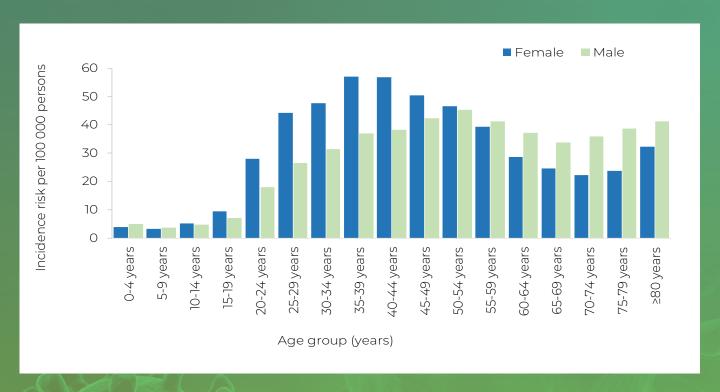


Figure 6. Incidence risk by age group and sex, South Africa, 4 March 2020-16 May 2020 (n=15 450, age missing for 64 cases)