COVID-19 Epidemiology Update

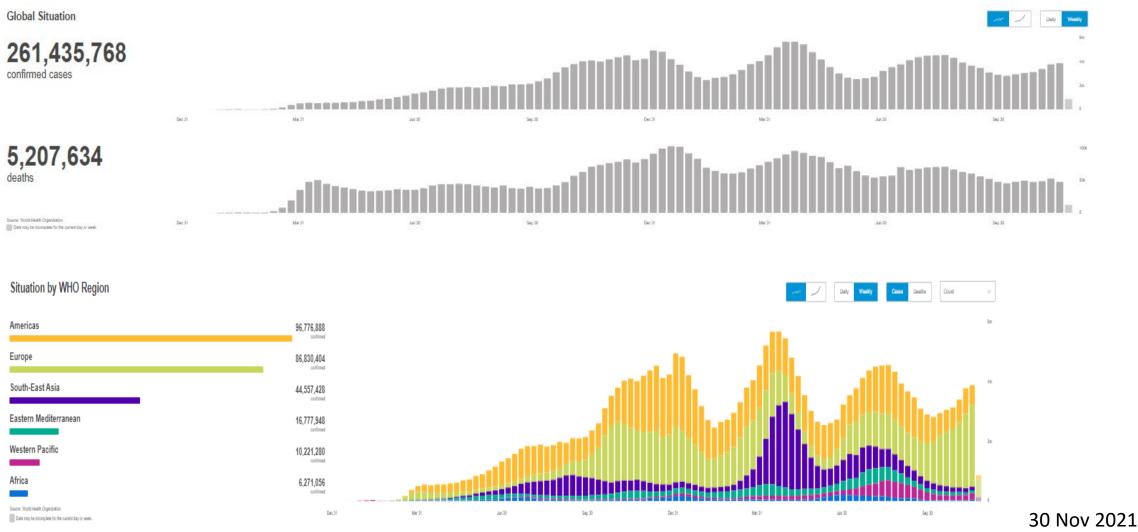
Dr Michelle Groome

Head – Division of Public Health Surveillance and Response

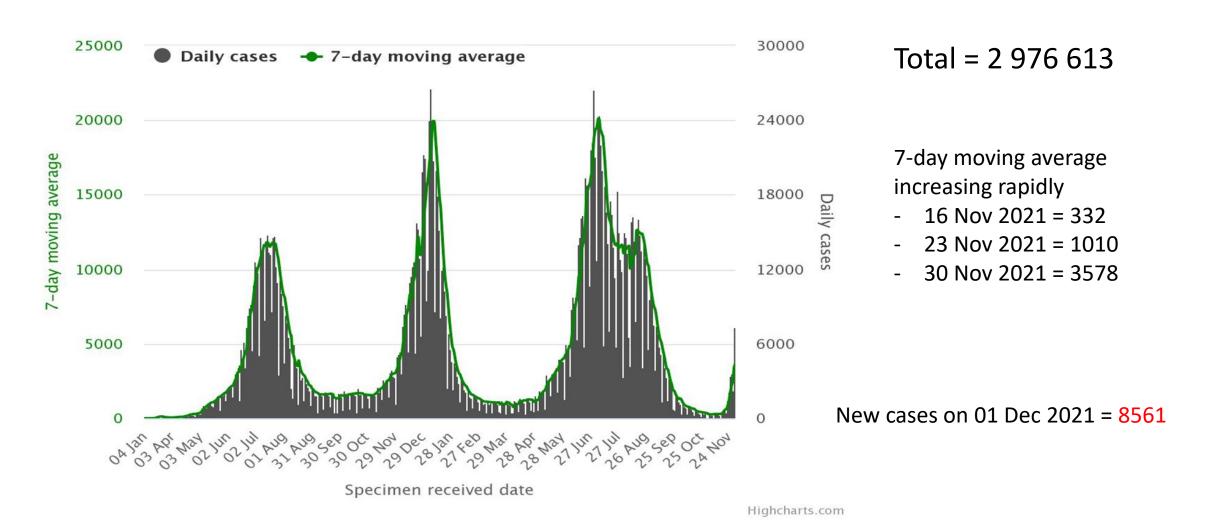
National Institute for Communicable Diseases



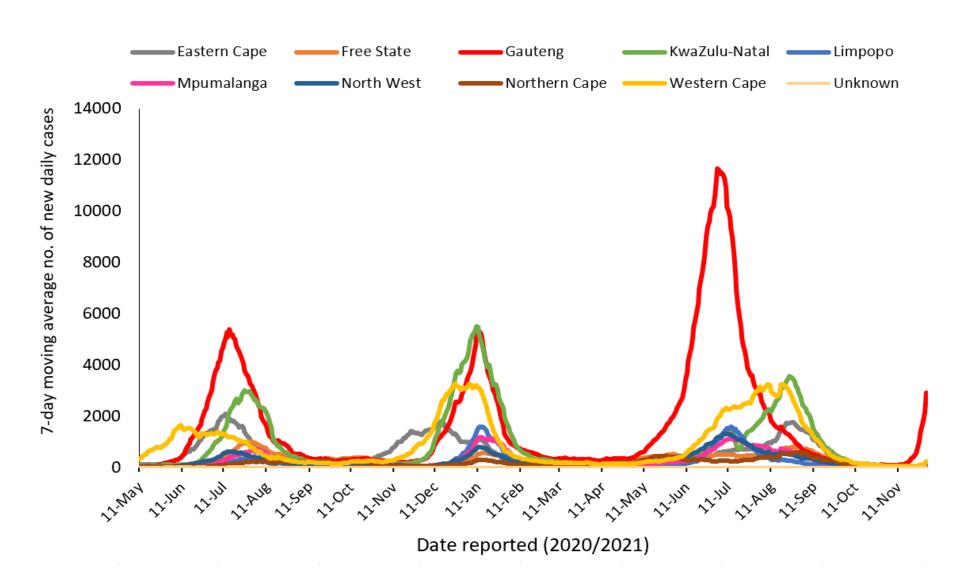
Global COVID-19 cases and deaths



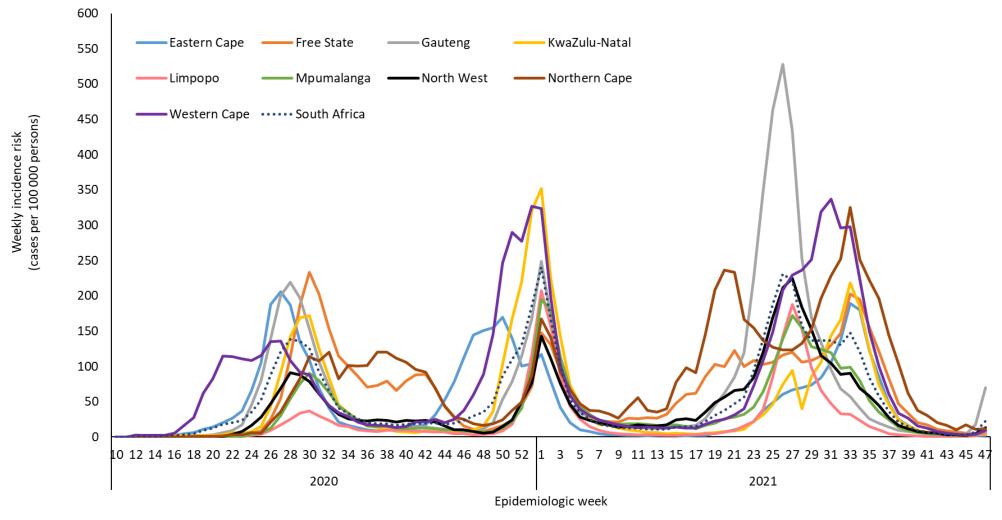
South Africa – laboratory-confirmed COVID-19 cases



7-day moving average number of new cases by province

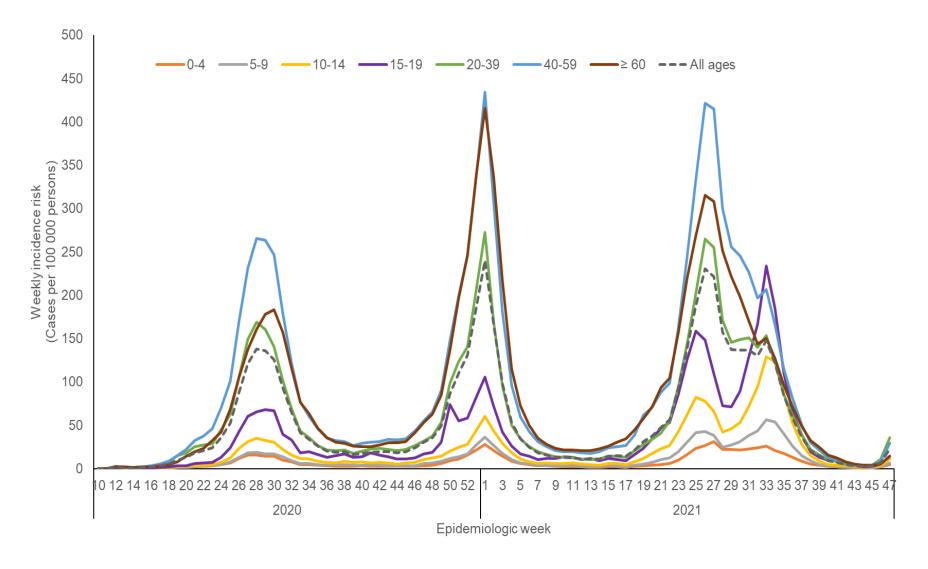


Weekly incidence of laboratory-confirmed cases (week 47)

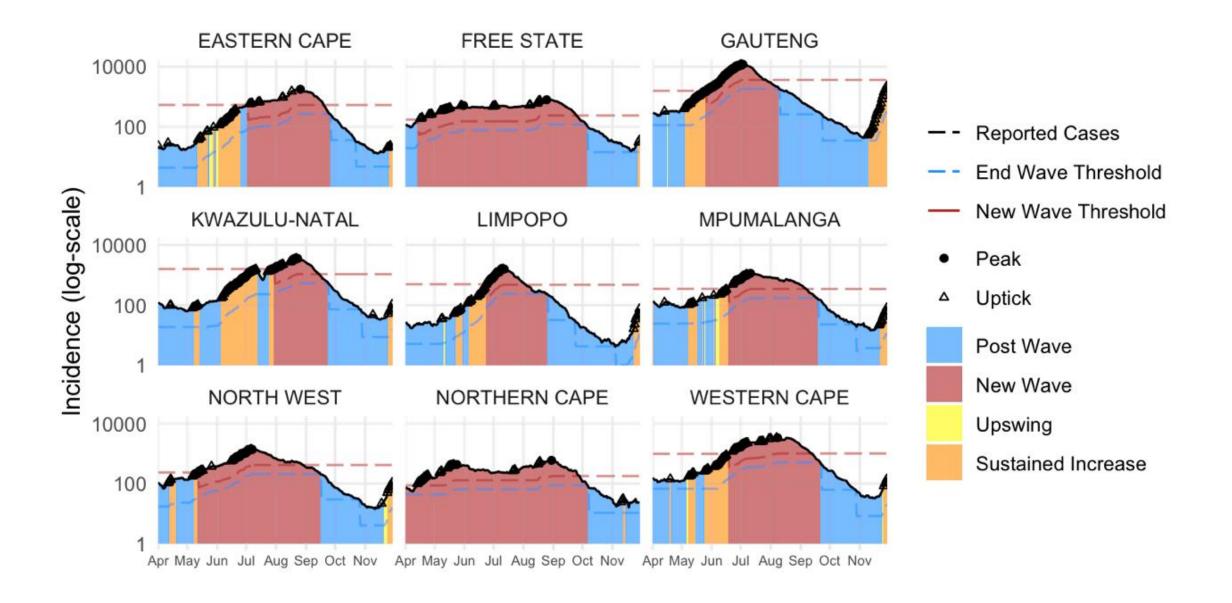


- All provinces reported an increase in weekly incidence risk.
- In the past week, the Gauteng Province reported the highest weekly incidence risk (69.9 cases per 100 000 persons), followed by North West Province (13.3 cases per 100 000 persons), and the Northern Cape Province (11.9 cases per 100 000 persons), and other provinces reported below 10 cases per 100 000 persons.

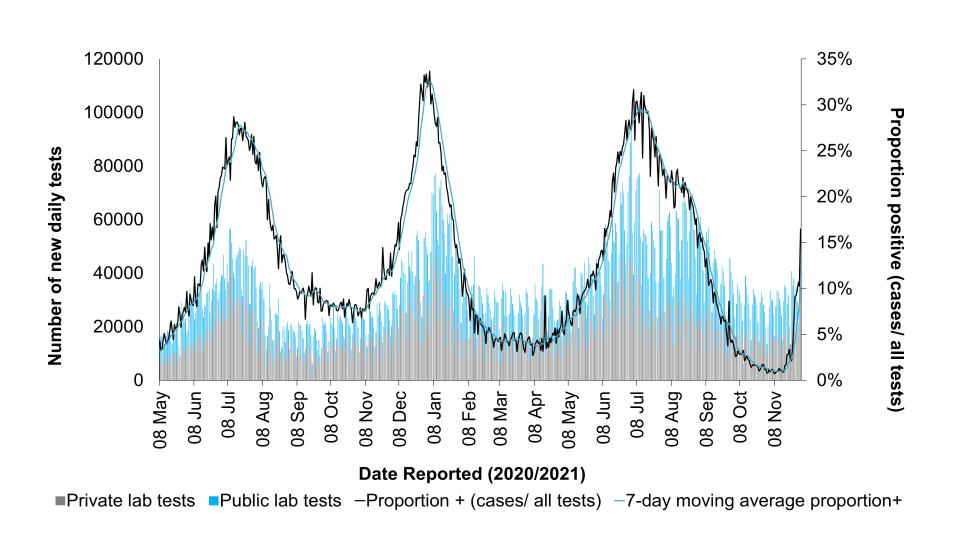
Weekly incidence of laboratory-confirmed cases by age



Highest weekly incidence risk among cases detected in week 47 of 2021 was reported in the 25-29-year age group (38.1 cases per 100 000 persons), and the lowest weekly incidence risk was in the 0-4-year age group (4.7 cases per 100 000 persons)



Daily SARS-CoV-2 tests and proportion positive



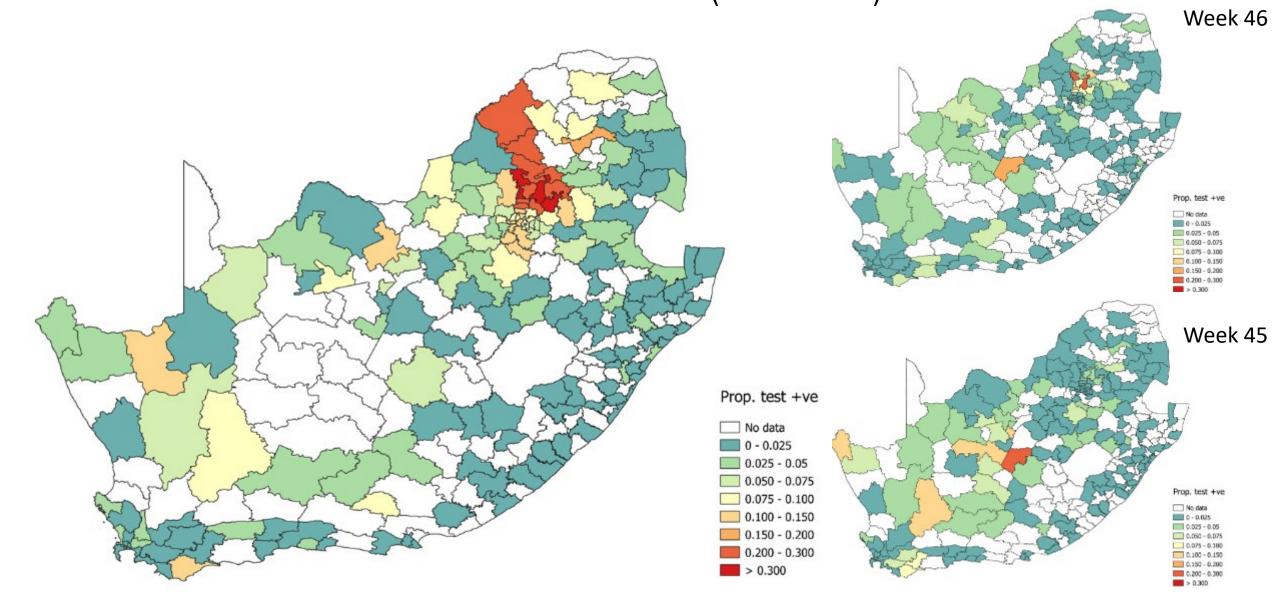
Week	Week	Percentage
number	beginning	testing positive
1.4	04 Amr 21	(%)
14	04-Apr-21	4.0
15	11-Apr-21	4.8
16	18-Apr-21	5.1
17	25-Apr-21	5.7
18	02-May-21	6.9
19	09-May-21	8.3
20	16-May-21	9.7
21	23-May-21	11.3
22	30-May-21	13.4
23	06-Jun-21	17.6
24	13-Jun-21	23.7
25	20-Jun-21	27.4
26	27-Jun-21	29.9
27	04-Jul-21	31.9
28	11-Jul-21	31.5
29	18-Jul-21	28.2
30	25-Jul-21	25.2
31	01-Aug-21	23.7
32	08-Aug-21	23.3
33	15-Aug-21	22.7
34	22-Aug-21	20.0
35	29-Aug-21	16.0
36	05-Sep-21	13.0
37	12-Sep-21	9.3
38	19-Sep-21	6.8
39	26-Sep-21	4.6
40	03-Oct-21	3.3
41	10-Oct-21	2.7
42	17-Oct-21	1.8
43	24-Oct-21	1.5
44	31-Oct-21	1.1
45	07-Nov-21	1.2
46	14-Nov-21	2.4
47	21-Nov-21	8.3

Dorcontago

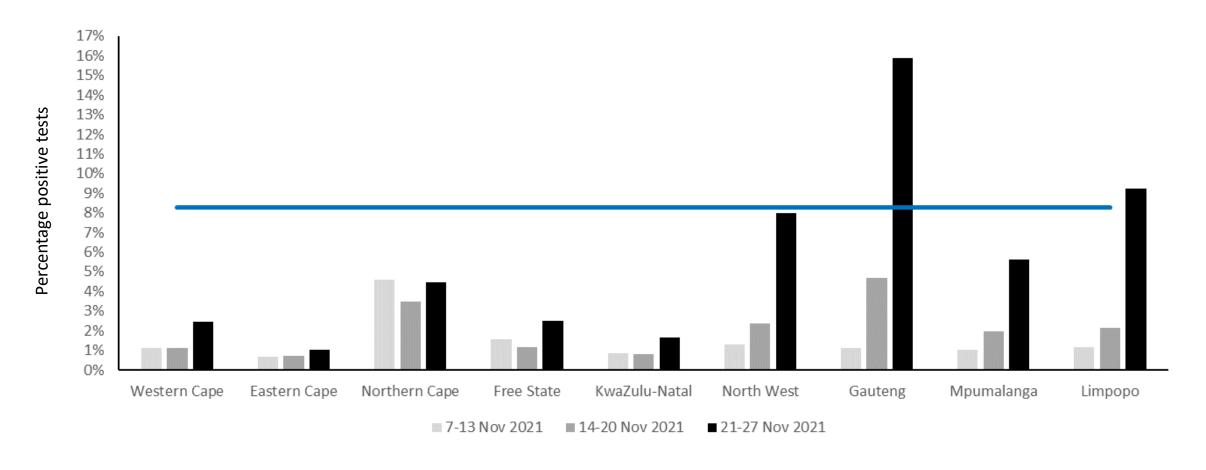
Weekly number of tests performed and positive tests, by province

Province	Population	7-13 No	ov 2021	14-20 N	ov 2021	21-27 No	ov 2021	Testing rate	Change in percentage
		No. of tests	No. positive tests (%)	No. of tests	No. positive tests (%)	No. of tests	No. positive tests (%)	per 100000	positive from previous week
Western Cape	7005741	28944	318 (1.1)	29698	327 (1.1)	31966	779 (2.4)	456	1.3%
Eastern Cape	6734001	16301	112 (0.7)	19503	139 (0.7)	18277	185 (1.0)	271	0.3%
Northern Cape	1292786	5432	250 (4.6)	4753	165 (3.5)	4078	182 (4.5)	315	1.0%
Free State	2928903	11567	182 (1.6)	10780	123 (1.1)	8777	218 (2.5)	300	1.3%
KwaZulu-Natal	11531628	36899	309 (0.8)	37109	297 (0.8)	34463	572 (1.7)	299	0.9%
North West	4108816	9614	126 (1.3)	9513	224 (2.4)	8988	717 (8.0)	219	5.6%
Gauteng	15488137	66284	751 (1.1)	67622	3160 (4.7)	83847	13326 (15.9)	541	11.2%
Mpumalanga	4679786	11239	116 (1.0)	8914	177 (2.0)	8253	465 (5.6)	176	3.6%
Limpopo	5852553	4055	47 (1.2)	3675	79 (2.1)	4130	381 (9.2)	71	7.1%
Unknown		21	0 (0.0)	6	0 (0.0)	37	2 (5.4)		
Total	59622350	190356	2211 (1.2)	191573	4691 (2.4)	202816	16827 (8.3)	340	5.9%

Proportion testing positive by health sub-district in South Africa for the week of 21 - 27 November 2021 (Week 47)

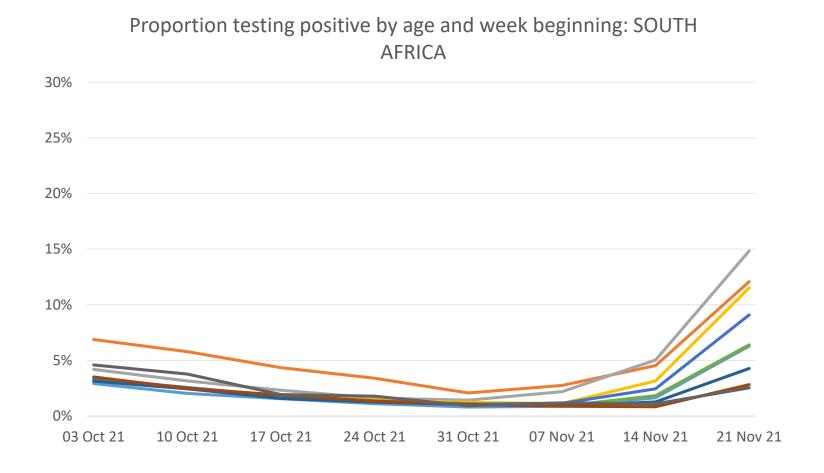


Weekly percentage testing positive



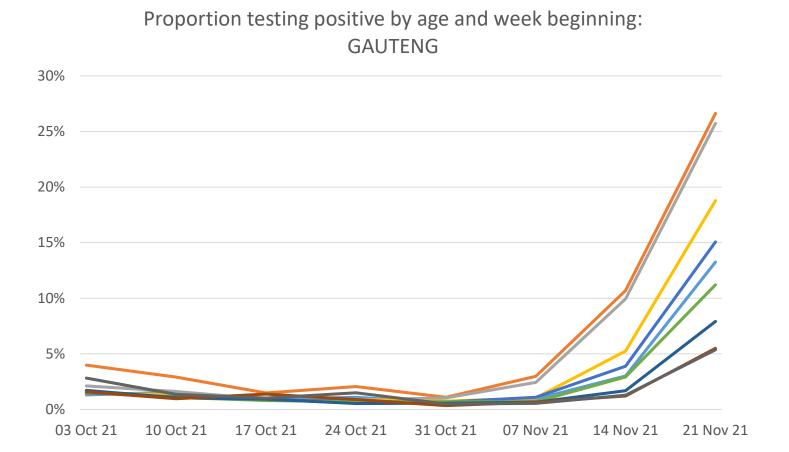
- Percentage testing positive increased by 6.4 % in public sector (2.9% in week 46 to 9.3% in week 47) and by 5.6% in private sector (2.1% in week 46 to 7.7% in week 47).
- Percentage testing positive increased in all provinces: highest in Gauteng (15.9%), followed by Limpopo (9.2%), North West (8.0%) and Mpumalanga (5.6%) provinces, <5% in all other provinces.

Percent testing positive by age group (PCR only)



-0-9 -10-19 -20-29 -30-39 -40-49 -50-59 -60-69 -70-79 -80+

Percent testing positive in Gauteng by age group (years; PCR only)

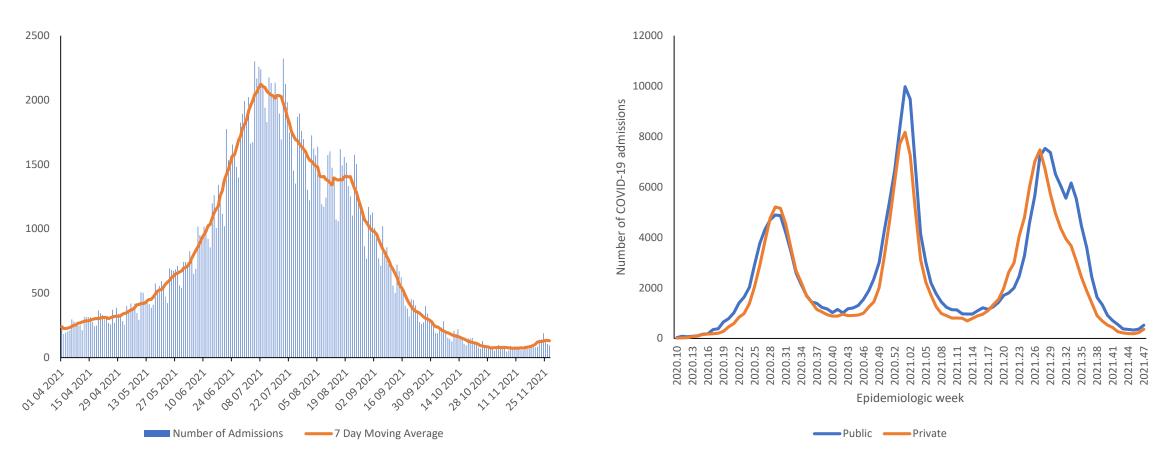


-0.9 -10.19 -20.29 -30.39 -40.49 -50.59 -60.69 -70.79 -80+

Number and % of new daily cases of COVID-19 and tests for SARS-CoV-2 and proportion positive by province for 01 Dec 2021

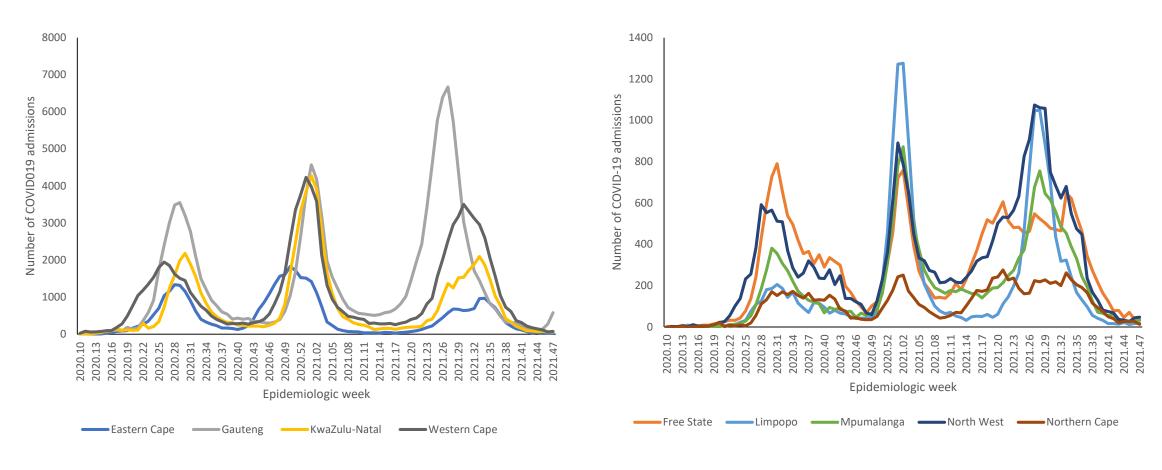
Province	New cases yesterday	New cases today	New tests reported today	Proportion positive (cases/tests)	New cases % total	New tests % total
Eastern Cape	65	115	3 787	3%	1%	7%
Free State	70	138	2 071	7%	2%	4%
Gauteng	3143	6168	22 730	27%	72%	44%
KwaZulu-Natal	259	476	7 706	6%	6%	15%
Limpopo	204	271	1403	19%	3%	3%
Mpumalanga	139	375	2 614	14%	4%	5%
North West	200	356	2 302	15%	4%	4%
Northern Cape	18	36	1152	3%	0%	2%
Western Cape	275	626	7 308	9%	7%	14%
Unknown	0	0	904	0%	0%	2%
Total	4373	8561	51 977	16%	100%	100%

Number of reported COVID-19 admissions, South Africa, 7DMA, 1 April-27 November 2021 (left); and by epidemiologic week and health sector, 5 March 2020-27 November 2021 (right)



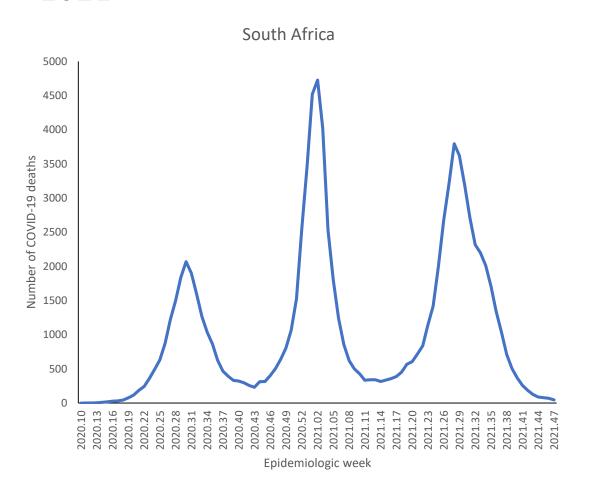
- Increasing number of admissions, increase in 7 DMA nationally (most recent week data lags)
- Increased admissions in both sectors in the past two weeks

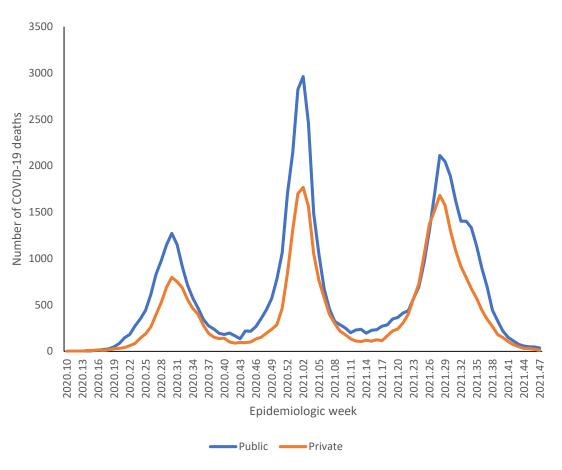
Number of reported COVID-19 admissions, by epidemiologic week and province, South Africa, 5 March 2020-27 November 2021



- Increased admissions in Gauteng in the past two weeks
- Small increase in admissions in Limpopo and North West

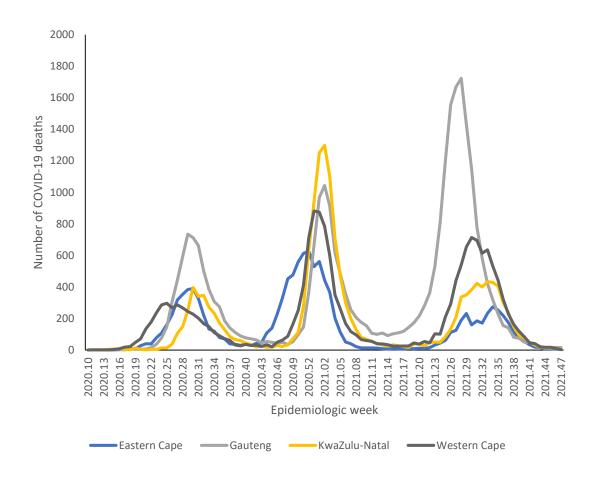
Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), South Africa, 5 March 2020-27 November 2021

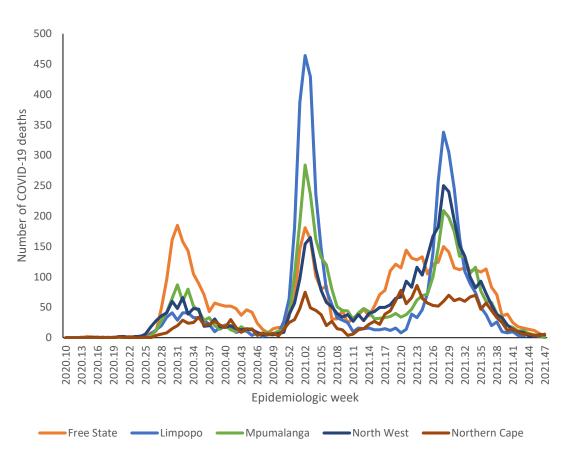




Decreased deaths nationally, public and private sector

Number of reported COVID-19 deaths, by epidemiologic week and province, South Africa, 5 March 2020-27 November 2021



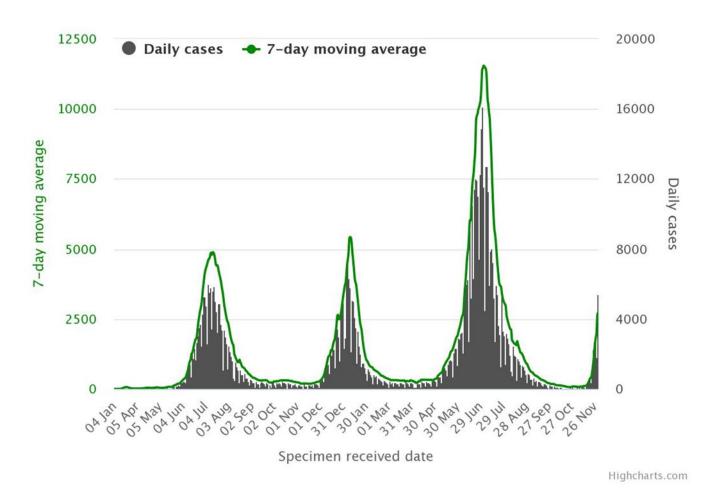


Decreased deaths in all provinces

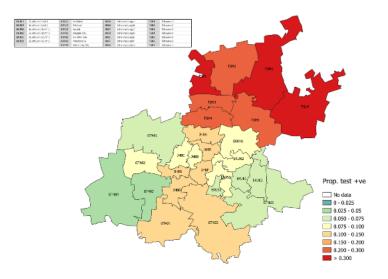
Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, South Africa, 30 October-27 November 2021

Province	Hospital ad	missions	Percentage change in	Hospital deaths		Percentage change in
	Previous 14 days admissions average	Current 14 days admissions average	admissions	Previous 14 days deaths average	Current 14 days deaths average	deaths
Eastern Cape	4.93	3.93	-20.29	0.86	0.79	-8.33
Free State	8.36	4.93	-41.03	1.86	0.73	-61.54
Gauteng	18.21	61.14	235.69	2.14	2.36	10.00
KwaZulu-Natal	10.29	8.43	-18.06	2.00	1.50	-25.00
Limpopo	2.43	2.50	2.94	0.64	0.21	-66.67
Mpumalanga	4.29	4.21	-1.67	0.86	0.29	-66.67
North West	4.29	6.64	55.00	0.36	0.71	100.00
Northern Cape	3.93	2.86	-27.27	0.71	0.64	-10.00
Western Cape	18.79	10.21	-45.63	2.57	1.07	-58.33

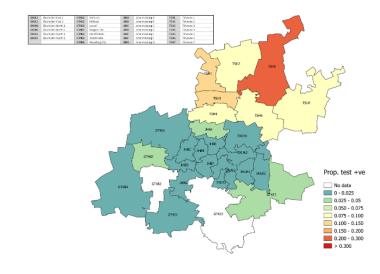
Gauteng



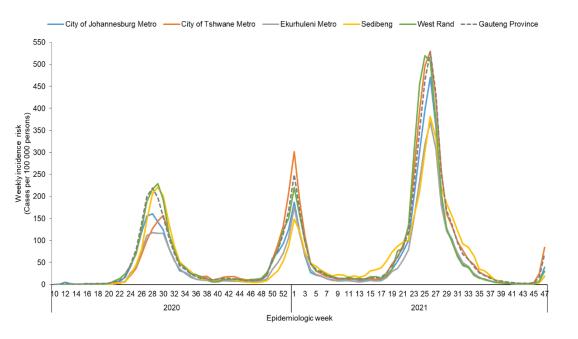
Week 47

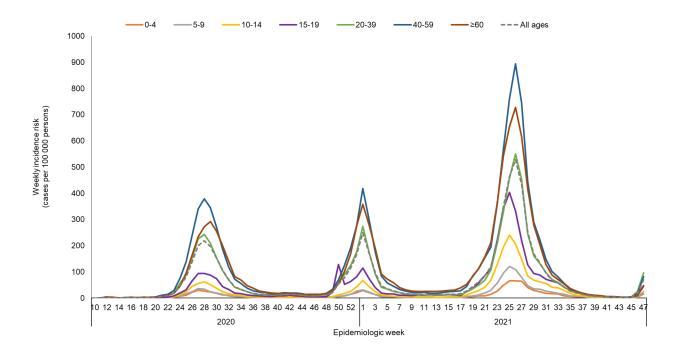


Week 46



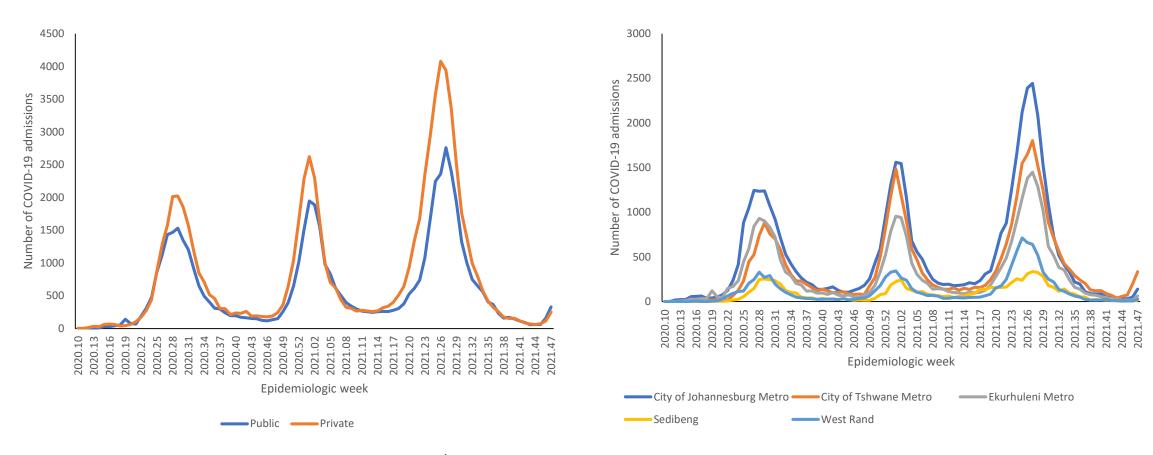
Gauteng





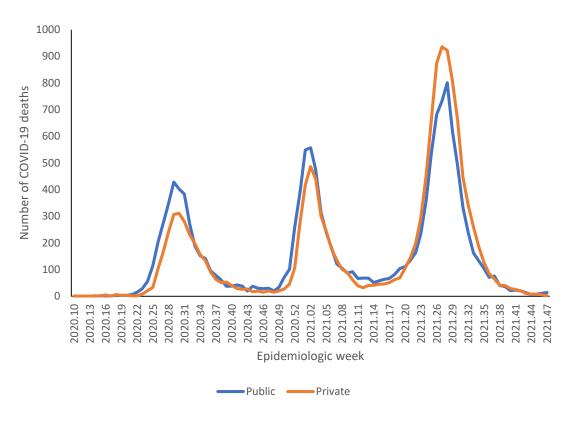
District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Gauteng						
City of Johannesburg	2021-11-27	Response	Yes	Yes	40.31	517.49
City of Tshwane	2021-11-27	Response	Yes	Yes	86.86	273.59
Ekurhuleni	2021-11-27	Response	Yes	Yes	19.31	449.29
Sedibeng	2021-11-27	Response	Yes	Yes	19.47	376.92
West Rand	2021-11-27	Response	Yes	Yes	30.79	332.35

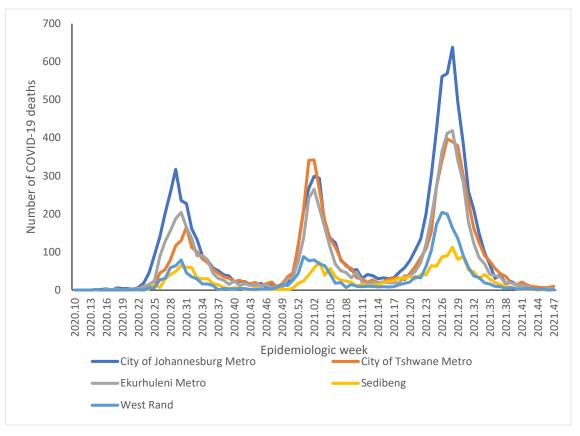
Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Gauteng, 5 March 2020-27 November 2021



- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in both sectors, and all districts
- Increase in admissions both sectors past two weeks
- Increased admissions all districts

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Gauteng, 5 March 2020-27 November 2021



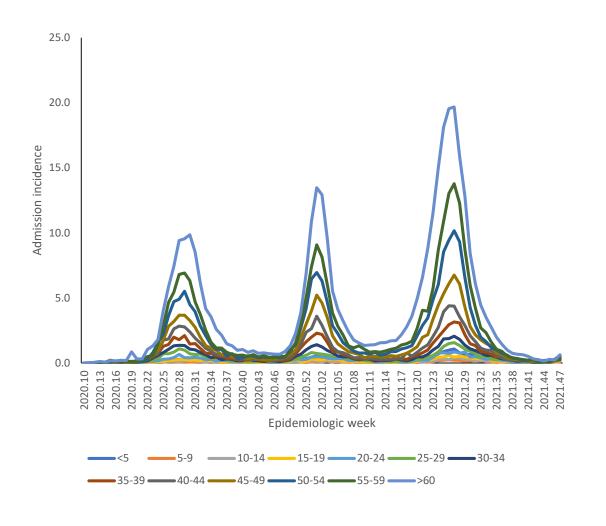


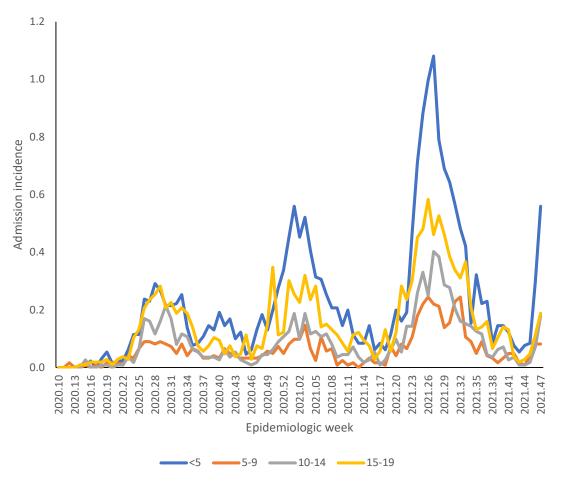
- Weekly number of deaths at peak of 3rd wave surpassed peak of second wave in both sectors, and in all districts
- Small increase in deaths in public sector
- Increased deaths in City of Tshwane and Ekurhuleni

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Gauteng, 30 October-27 November 2021

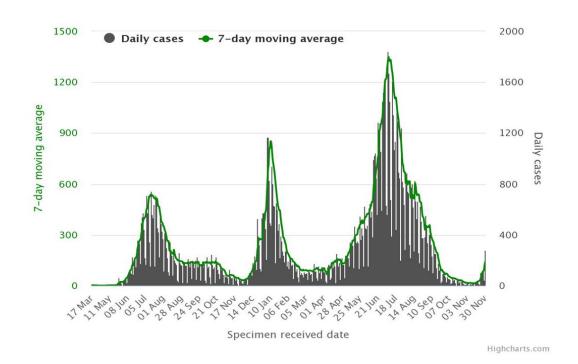
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
City of Johannesburg	4.64	13.50	190.77	0.50	0.50	0.00
City of Tshwane	9.36	37.71	303.05	1.00	1.21	21.43
Ekurhuleni	2.43	5.86	141.18	0.21	0.50	133.33
Sedibeng	0.79	1.57	100.00	0.14	0.07	-50.00
West Rand	1.00	2.50	150.00	0.29	0.07	-75.00

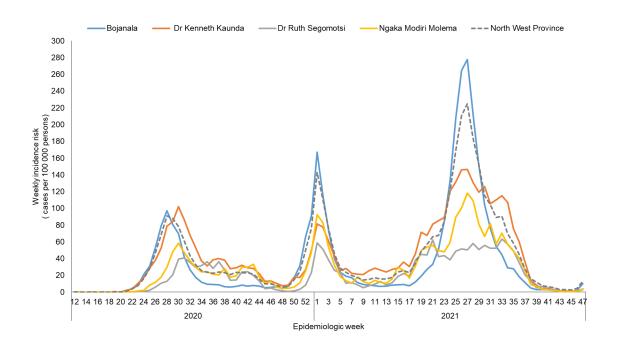
Incidence risk of admissions per 100,000 by age group and epidemiologic week, Gauteng, 5 March 2020-27 November 2021





North West

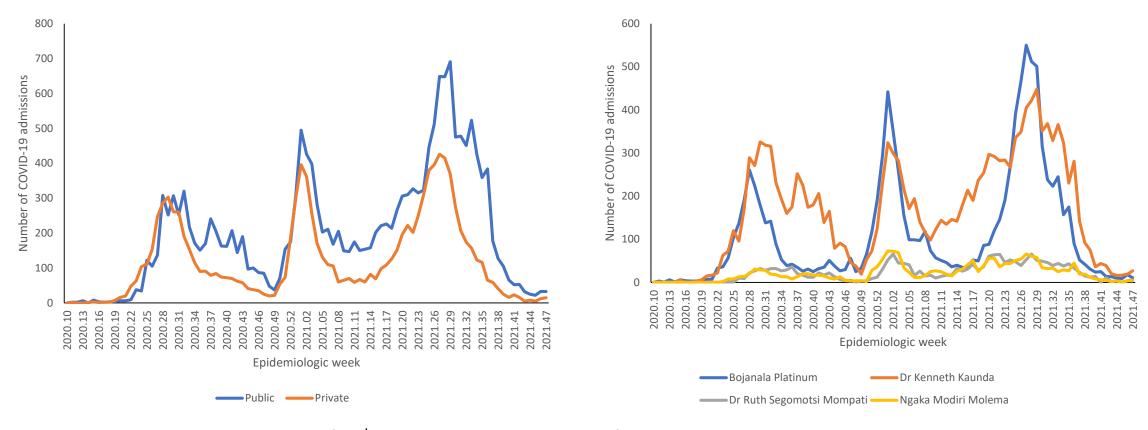




District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
North West						
Bojanala Platinum	2021-11-27	Response	Yes	Yes	10.42	415.38
Dr Kenneth Kaunda	2021-11-27	Alert	Yes	Yes	3.89	287.50
Dr Ruth Segomotsi Mompati	2021-11-27	Alert	No	No	2.96	133.33
Ngaka Modiri Molema	2021-11-27	Alert	Yes	Yes	3.41	158.33

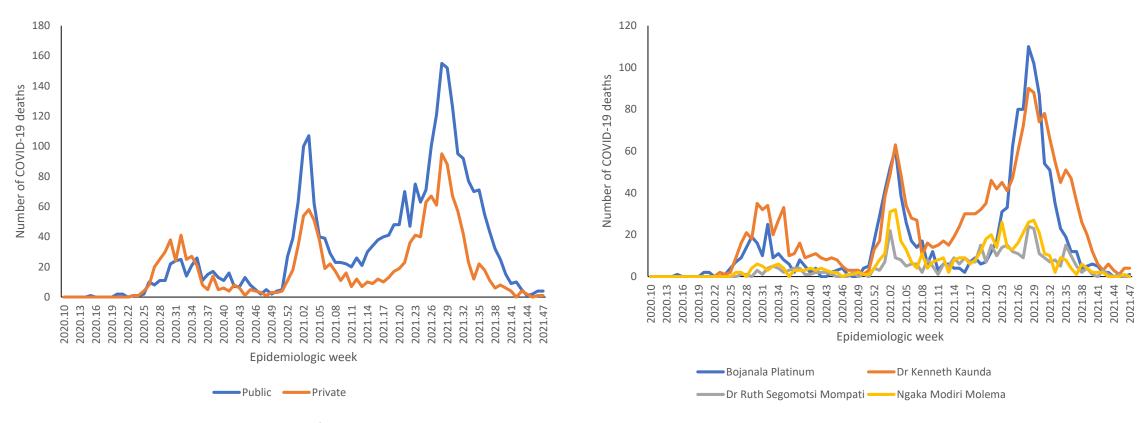


Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), North West, 5 March 2020-27 November 2021



- Weekly admissions at peak of 3rd wave surpassed peak of second wave in both sectors, and in Dr Kenneth Kaunda and Bojanala Platinum districts
- Increased admissions in both sectors in the past week
- Increase in admissions all districts

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), North West, 5 March 2020-27 November 2021

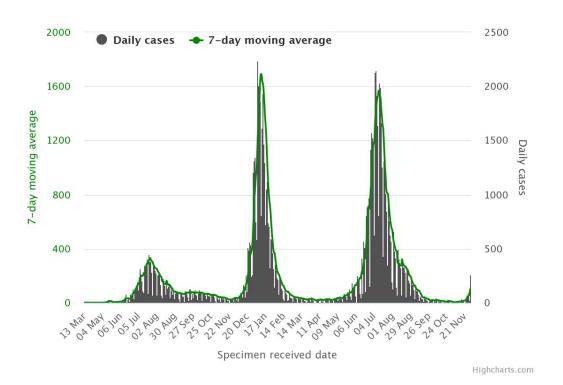


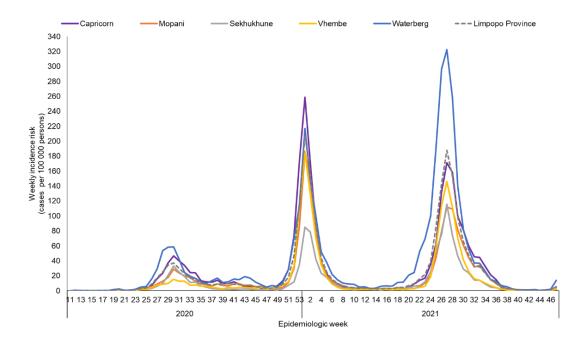
- Weekly deaths at peak of 3rd wave surpassed peak of second wave in private sector, and in Bojanala Platinum and Dr Kenneth Kaunda districts
- Decreased deaths in both sectors
- Increased deaths in Dr Kenneth Kaunda

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, North West, 30 October-27 November 2021

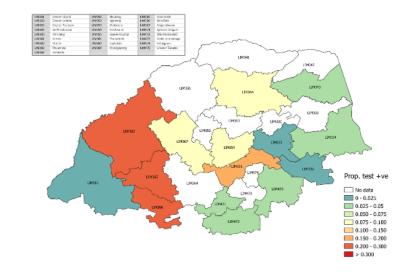
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Bojanala Platinum Dr Kenneth	1.36	2.07	52.63	0.00	0.07	0.00
Kaunda	2.36	3.29	39.39	0.29	0.57	100.00
Ruth Segomotsi Mompati Ngaka Modiri	0.36	0.71	100.00	0.07	0.00	-100.00
Molema	0.21	0.57	166.67	0.00	0.07	0.00

Limpopo

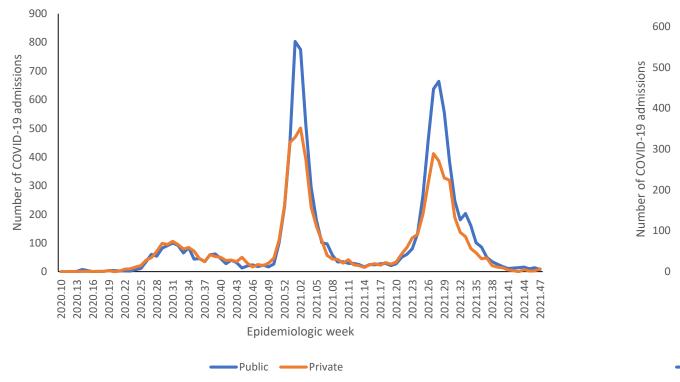


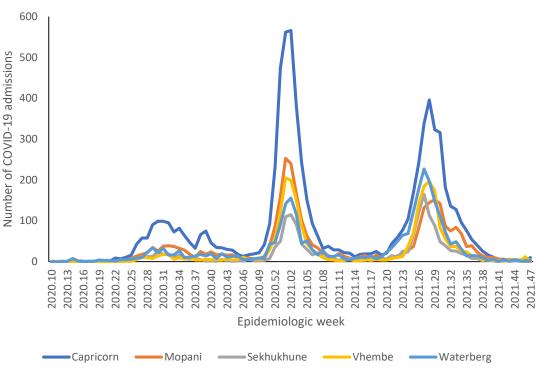


District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Limpopo						
Capricorn	2021-11-27	Alert	Yes	Yes	5.50	453.85
Mopani	2021-11-27	Alert	No	No	1.69	233.33
Sekhukhune	2021-11-27	Alert	No	No	4.37	333.33
Vhembe	2021-11-27	Alert	No	No	1.75	525.00
Waterberg	2021-11-27	Response	Yes	Yes	14.01	642.86



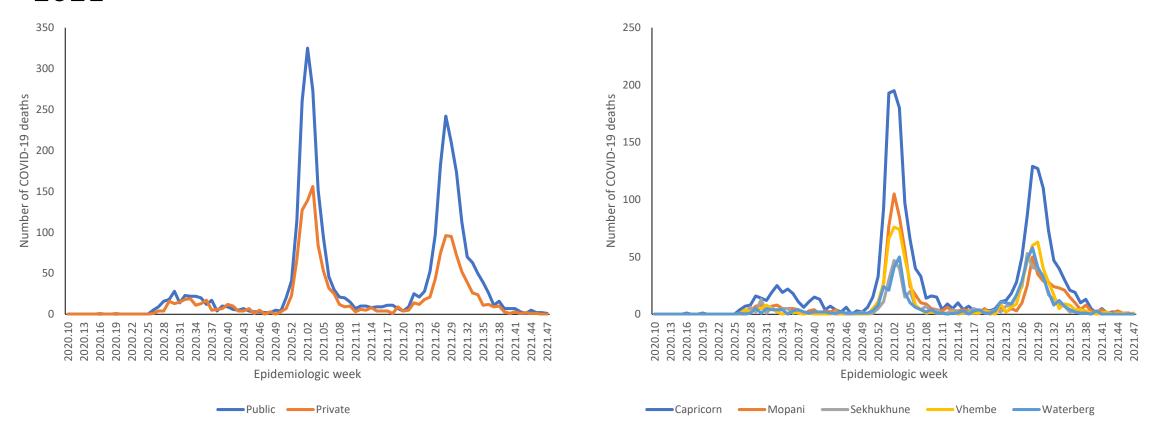
Number of reported COVID-19 admissions, by epidemiologic week and health sector, Limpopo, 5 March 2020-27 November 2021





- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in Sekhukhune and Waterberg
- Decreased admissions both sectors
- Small increase in admissions in Capricorn and Vhembe

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Limpopo, 5 March 2020-27 November 2021

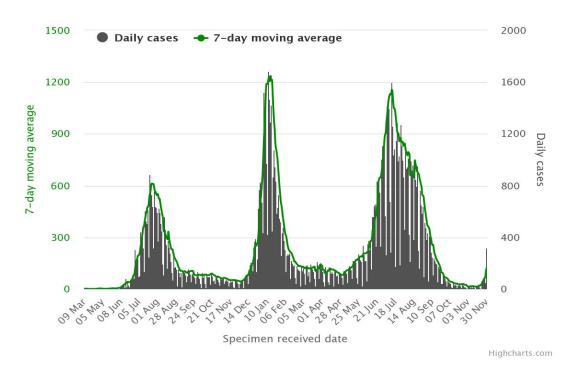


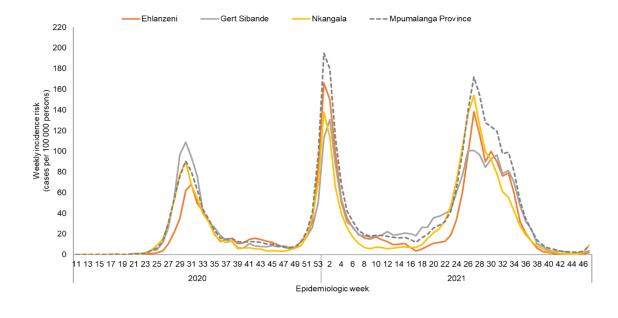
- Weekly number of deaths at peak of 3rd wave surpassed peak of second wave in Sekhukhune and Waterberg
- Decreased deaths in both sectors
- Decreased deaths all districts

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Limpopo, 30 October-27 November 2021

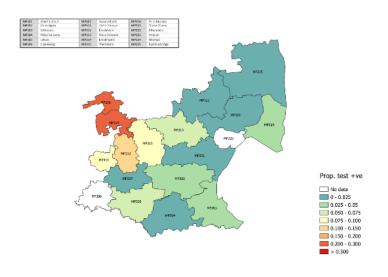
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Capricorn	0.64	0.93	44.44	0.14	0.07	-50.00
Mopani	0.43	0.00	-100.00	0.29	0.07	-75.00
Sekhukhune	0.43	0.21	-50.00	0.07	0.00	-100.00
Vhembe	0.50	1.00	100.00	0.14	0.07	-50.00
Waterberg	0.43	0.36	-16.67	0.00	0.00	0.00

Mpumalanga

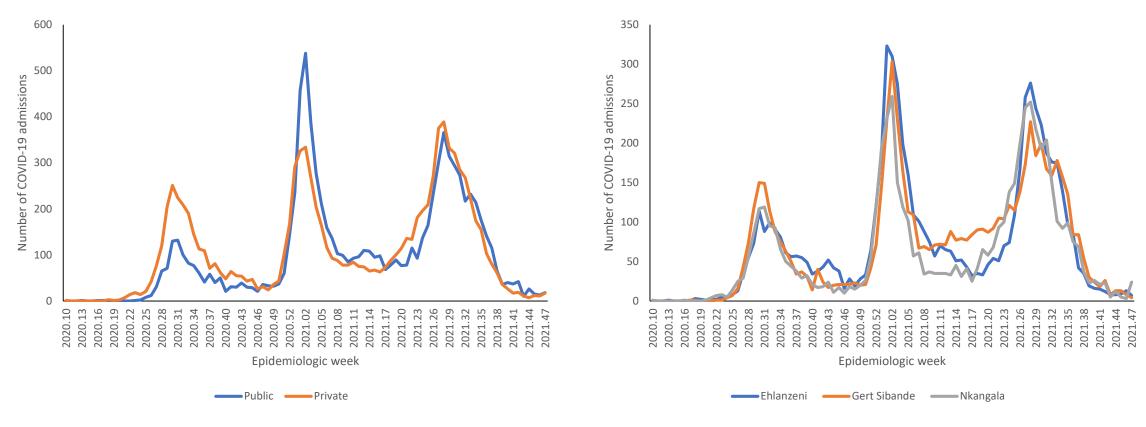




District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Mpumalanga						
Ehlanzeni	2021-11-27	Alert	Yes	No	2.08	153.33
Gert Sibande	2021-11-27	Alert	No	No	3.78	161.11
Nkangala	2021-11-27	Alert	Yes	Yes	9.14	390.00

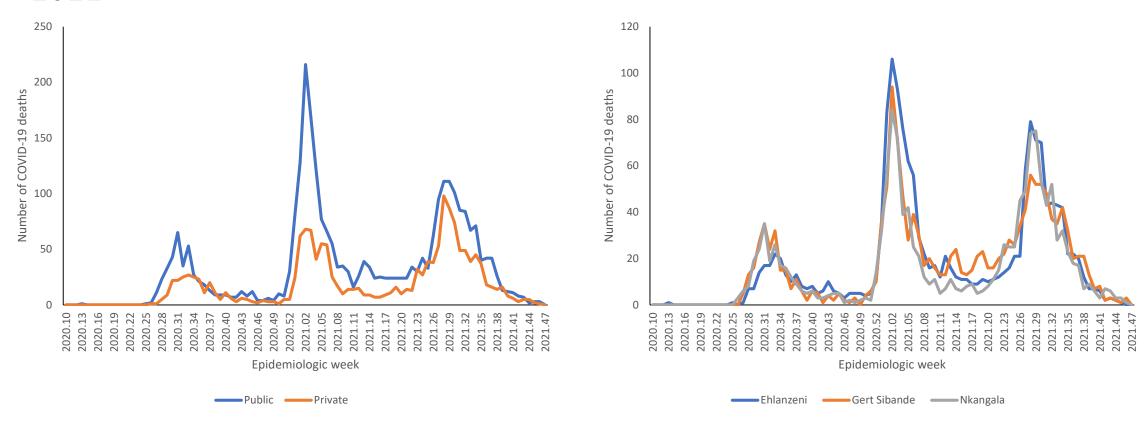


Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Mpumalanga, 5 March 2020-27 November 2021



- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in private sector
- Small increase in admissions both sectors and all districts except, Gert Sibande

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Mpumalanga, 5 March 2020-27 November 2021

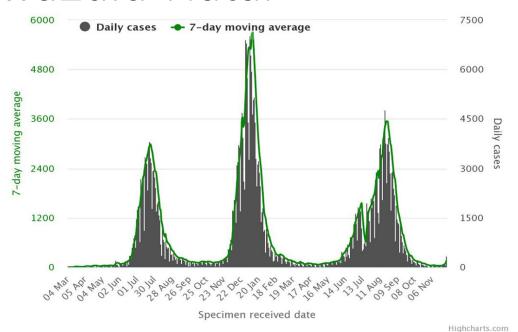


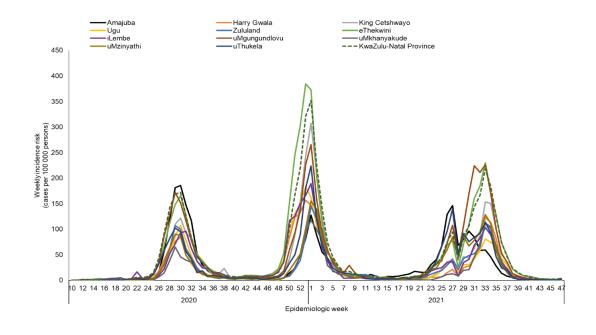
- Weekly number of deaths at peak of 3rd wave surpassed peak of second wave in private sector
- Decreased deaths both sectors
- Decreased deaths all districts

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Mpumalanga, 30 October-27 November 2021

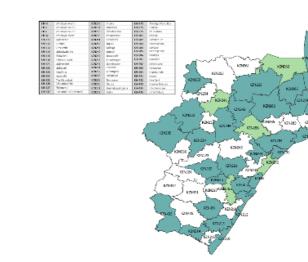
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Ehlanzeni	1.21	1.43	17.65	0.21	0.00	-100.00
Gert Sibande	1.86	0.86	-53.85	0.21	0.21	0.00
Nkangala	1.21	1.93	58.82	0.43	0.07	-83.33

KwaZulu-Natal





District	Date	Dept of Health	Upticks	upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
KwaZulu-Natal						
Amajuba	2021-11-27	Alert	No	No	1.58	200.00
eThekwini	2021-11-27	Alert	Yes	No	3.77	92.31
Harry Gwala	2021-11-26	Alert	No	No	0.39	0.00
iLembe	2021-11-26	Alert	No	No	0.72	25.00
King Cetshwayo	2021-11-27	Alert	No	No	0.82	60.00
Ugu	2021-11-27	Alert	No	No	1.50	71.43
uMgungundlovu	2021-11-27	Alert	Yes	Yes	2.78	300.00
uMkhanyakude	2021-11-27	Alert	No	No	0.87	200.00
uMzinyathi	2021-11-26	Alert	No	No	0.70	0.00
uThukela	2021-11-27	Alert	No	No	1.82	333.33
Zululand	2021-11-27	Alert	No	No	0.23	-66.67



No date

0 - 0.025

0.025 - 0.06

0.050 - 0.075

0.075 - 0.100

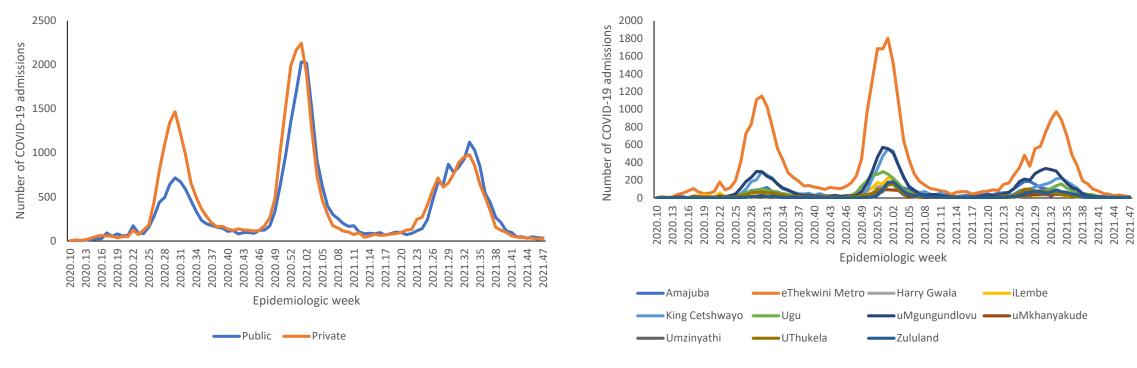
0.100 - 0.150

0.150 - 0.200

0.200 - 0.300

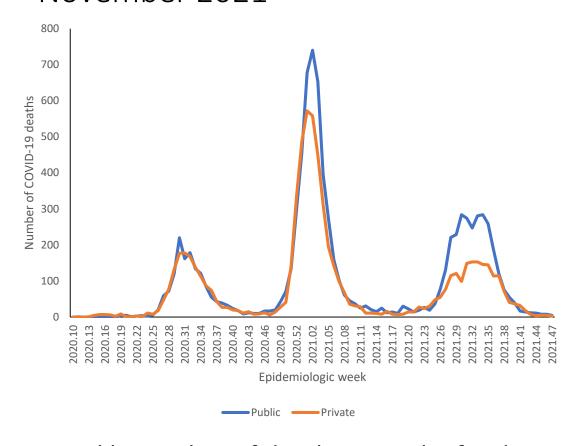
> 0.300

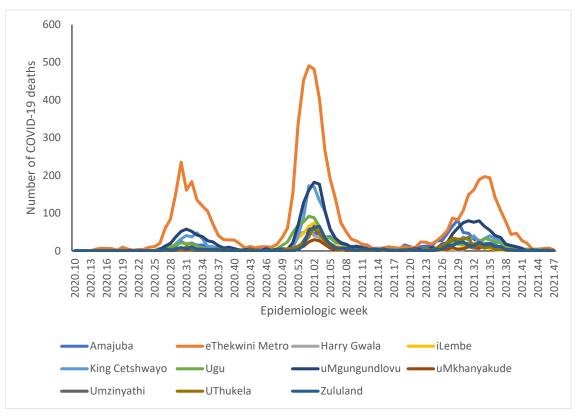
Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Kwazulu-Natal, 5 March 2020-27 November 2021



- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in Amajuba
- Decreased admissions both sectors
- Increased admissions in Amajuba, iLembe, King Cetshwayo, uMkhanyakude and Zululand

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Kwazulu-Natal, 5 March 2020-27 November 2021



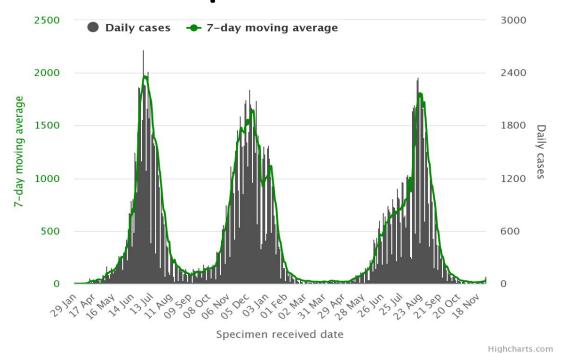


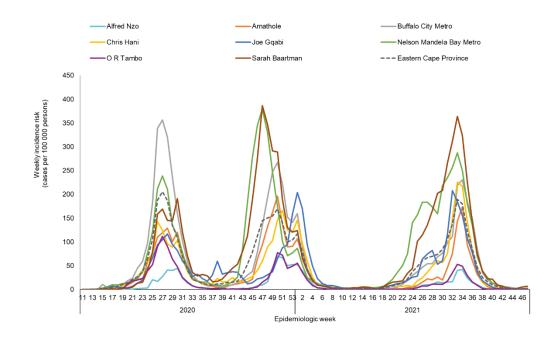
- Weekly number of deaths at peak of 3rd wave surpassed peak of second wave in Amajuba
- Decreased deaths both sectors
- Decreased deaths all districts

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Kwazulu-Natal, 30 October-27 November 2021

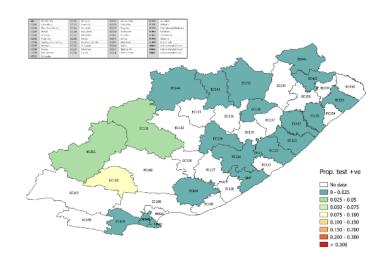
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Amajuba	0.29	0.43	50.00	0.00	0.00	0.00
eThekwini Metro	4.14	2.71	-34.48	0.79	0.79	0.00
Harry Gwala	0.43	0.14	-66.67	0.00	0.00	0.00
iLembe	0.43	0.57	33.33	0.07	0.00	-100.00
King Cetshwayo	0.93	1.07	15.38	0.14	0.07	-50.00
Ugu	1.21	1.14	-5.88	0.36	0.29	-20.00
uMgungundlovu	1.21	1.07	-11.76	0.14	0.14	0.00
uMkhanyakude	0.14	0.21	50.00	0.14	0.07	-50.00
UMzinyathi	0.21	0.07	-66.67	0.14	0.07	-50.00
UThukela	1.00	0.50	-50.00	0.07	0.07	0.00
Zululand	0.29	0.50	75.00	0.14	0.00	-100.00

Eastern Cape

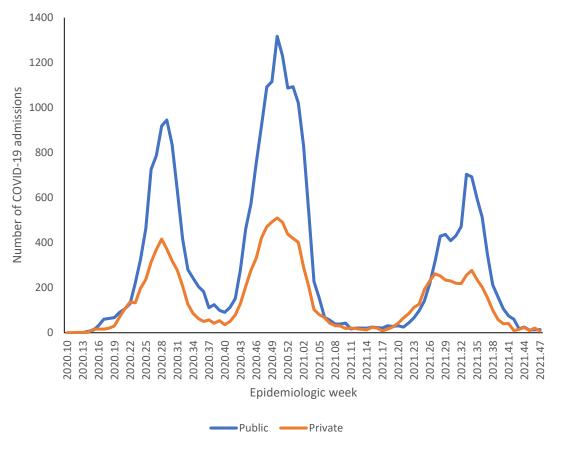


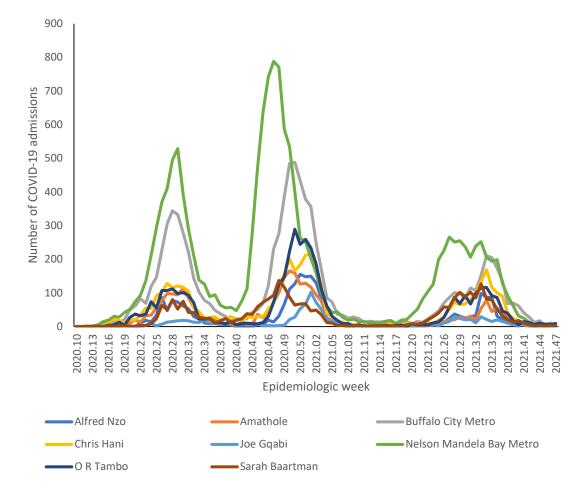


District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Eastern Cape						
Alfred Nzo	2021-11-23	Alert	No	No	0.24	100.00
Amathole	2021-11-27	Alert	No	No	1.88	150.00
Buffalo City	2021-11-27	Alert	No	No	2.37	46.15
Chris Hani	2021-11-27	Alert	No	No	1.51	37.50
Joe Gqabi	2021-11-27	Alert	No	No	2.03	250.00
Nelson Mandela Bay	2021-11-26	Alert	No	No	3.05	85.00
OR Tambo	2021-11-27	Alert	No	Yes	0.91	1300.00
Sarah Baartman	2021-11-27	Alert	No	No	7.23	40.00



Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Eastern Cape, 5 March 2020-27 November 2021



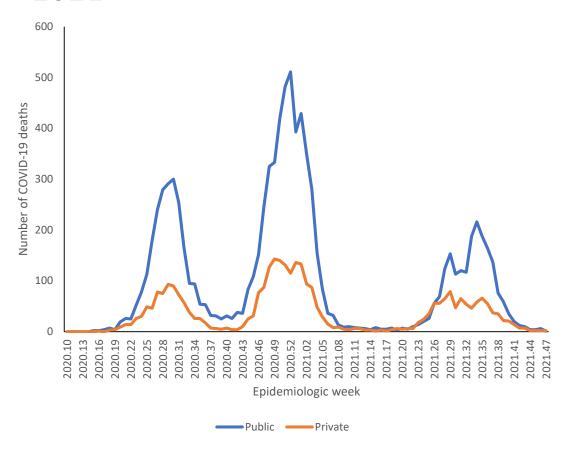


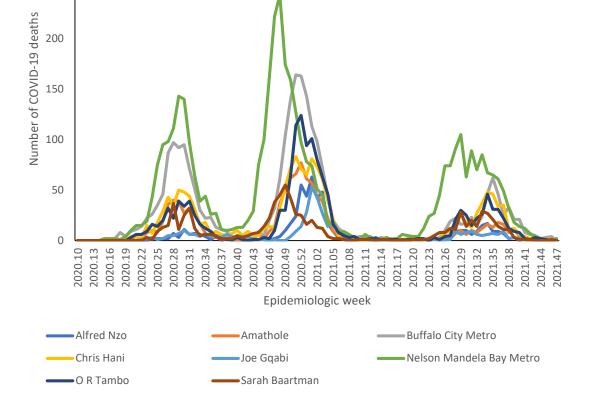
- Decreased admissions both sectors
- Increased admissions in Chris Hani and Sarah Baartman

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Eastern Cape, 5 March 2020-27 November 2021

300

250



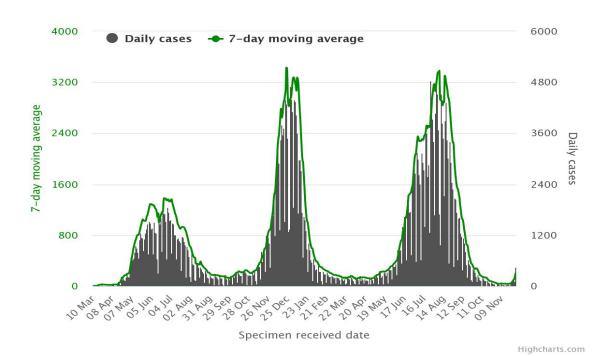


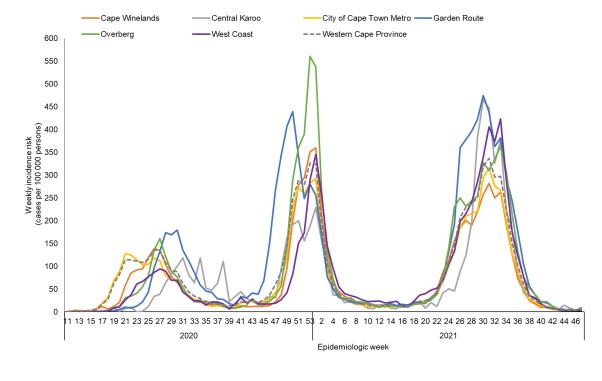
- Decreased deaths both sectors
- Decreased deaths all districts

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Eastern Cape, 30 October-27 November 2021

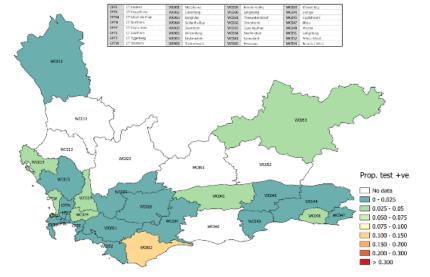
District	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Alfred Nzo	0.36	0.21	-40.00	0.00	0.14	0.00
Amathole	0.21	0.21	0.00	0.14	0.07	-50.00
Buffalo City Metro	1.36	0.79	-42.11	0.36	0.29	-20.00
Chris Hani	0.21	0.36	66.67	0.14	0.07	-50.00
Joe Gqabi	0.00	0.07	0.00	0.00	0.00	0.00
Nelson Mandela						
Bay	1.21	0.79	-35.29	0.00	0.14	0.00
O R Tambo	1.21	1.07	-11.76	0.21	0.00	-100.00
Sarah Baartman	0.36	0.43	20.00	0.00	0.07	0.00

Western Cape

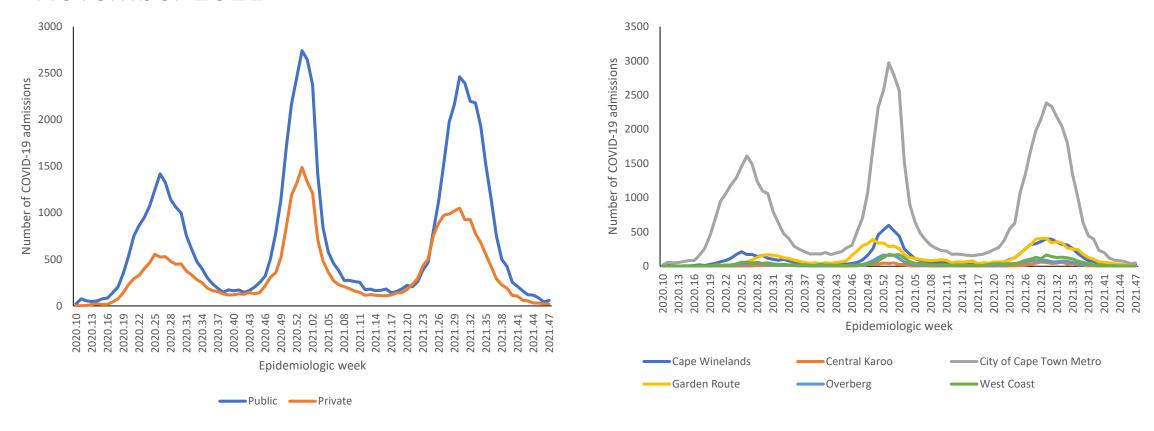




District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Western Cape						
Cape Winelands	2021-11-27	Alert	No	No	5.74	107.69
Central Karoo	2021-11-26	Control	No	No	3.99	-40.00
City of Cape Town	2021-11-27	Alert	Yes	Yes	9.23	159.15
Garden Route	2021-11-27	Alert	No	No	5.93	48.00
Overberg	2021-11-27	Alert	No	No	4.33	44.44
West Coast	2021-11-27	Control	No	No	3.04	16.67

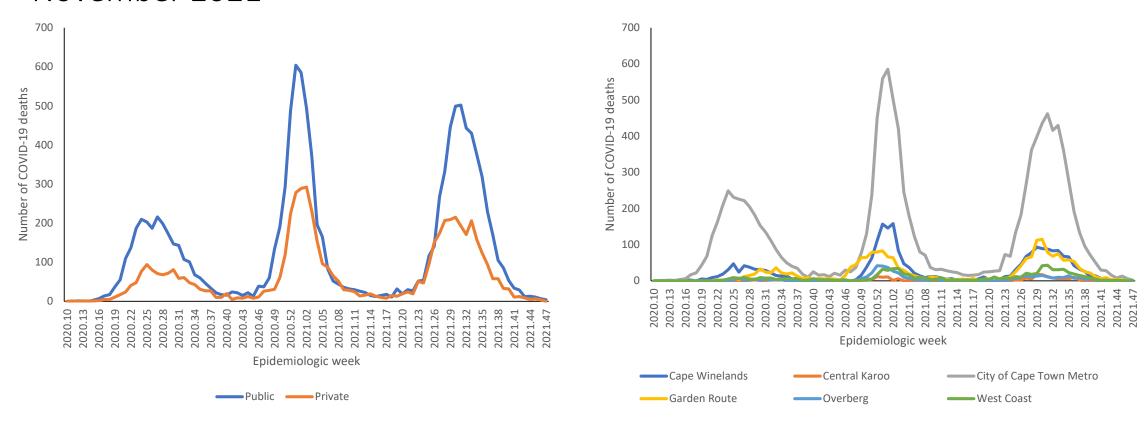


Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Western Cape, 5 March 2020-27 November 2021



- Weekly number of admissions in 3rd wave has surpassed the peak of admission in second wave in Central Karoo and Garden Route
- Small increase in admissions in public sector
- Decreased admissions all districts

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Western Cape, 5 March 2020-27 November 2021

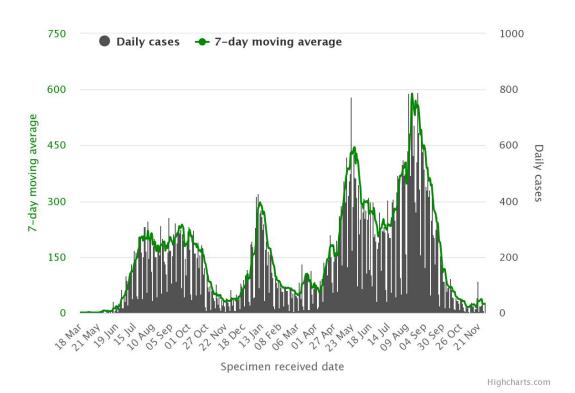


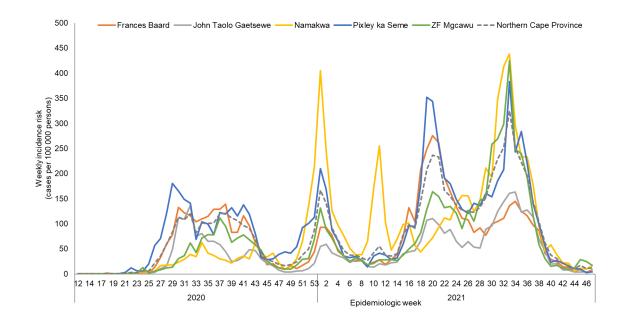
- Weekly number of deaths in 3rd wave has surpassed the peak of death in second wave in Central Karoo,
 Garden Route and West Coast
- Decreased deaths both sectors and all districts

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Western Cape, 30 October-27 November 2021

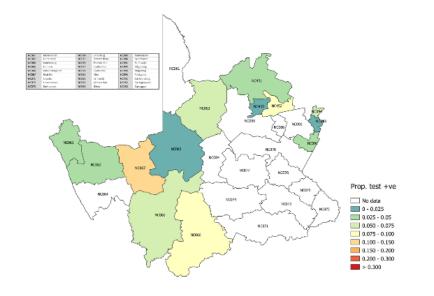
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Cape Winelands	3.14	2.36	-25.00	0.36	0.29	-20.00
Central Karoo	0.64	0.29	-55.56	0.07	0.07	0.00
City of Cape Town Metro	10.57	6.21	-41.22	1.50	0.57	-61.90
Garden Route	3.14	0.79	-75.00	0.50	0.07	-85.71
Overberg	0.79	0.29	-63.64	0.00	0.07	0.00
West Coast	0.50	0.29	-42.86	0.14	0.00	-100.00

Northern Cape

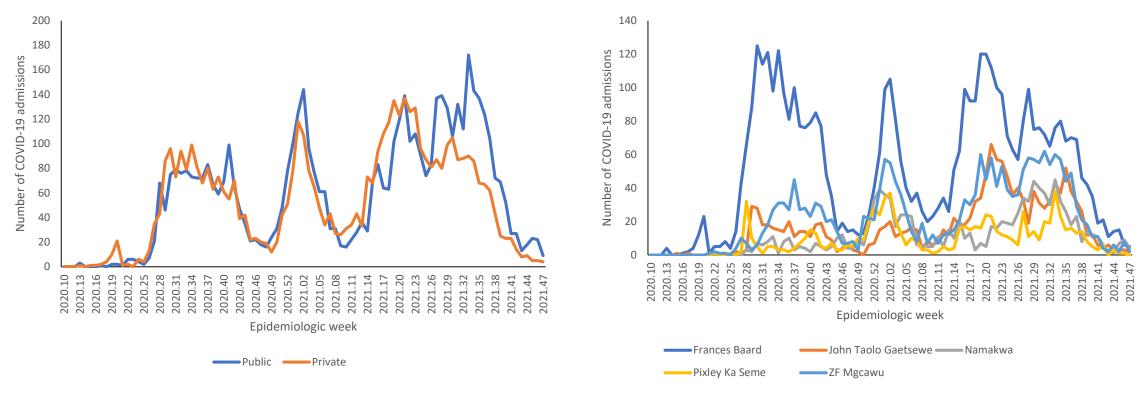




District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Northern Cape						
Frances Baard	2021-11-27	Alert	Yes	Yes	8.44	169.23
John Taolo Gaetsewe	2021-11-27	Alert	No	No	4.05	-15.38
Namakwa	2021-11-27	Response	No	No	16.43	72.73
Pixley ka Seme	2021-11-27	Alert	No	No	5.22	120.00
ZF Mgcawu	2021-11-26	Response	No	No	19.29	-31.65

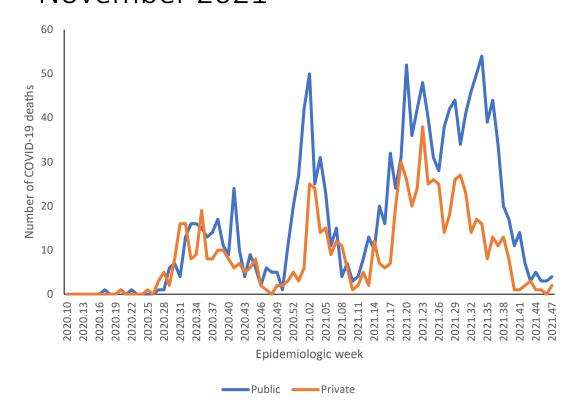


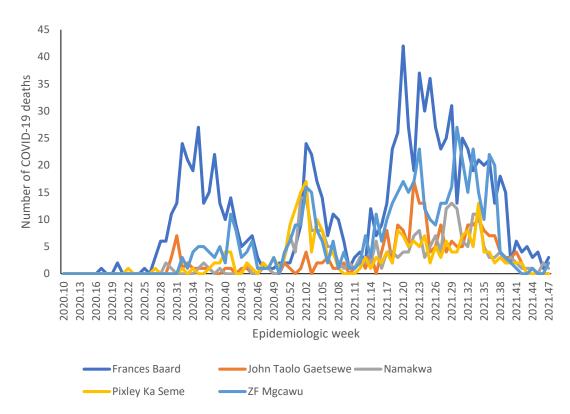
Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Northern Cape, 5 March 2020-27 November 2021



- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in both sectors, and in Frances Baard, John Taolo Gaetsewe, Namakwa, Pixley Ka Seme and ZF Mgcawu
- Decreased admissions both sectors and all districts except, in Namakwa and ZF Mgcawu

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Northern Cape, 5 March 2020-27 November 2021



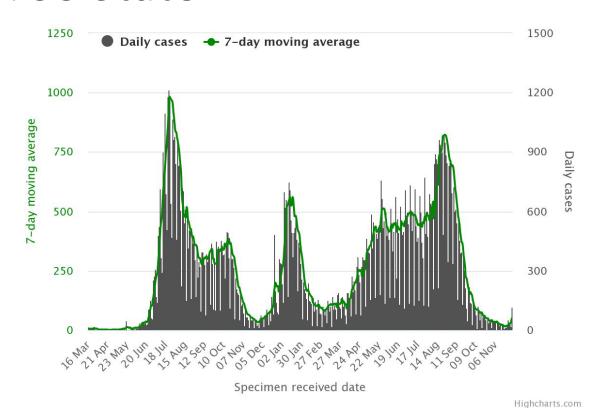


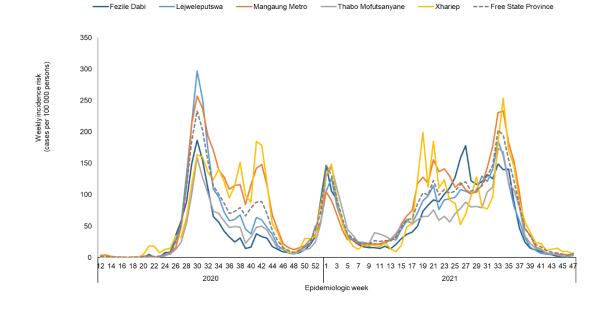
- Weekly number of deaths at peak of 3rd wave surpassed peak in second wave in both sectors, and in Frances Baard, ZF Mgcawu, John Taole Gaetswe
- Decreased deaths both sectors
- Decreased deaths all districts, except Namakwa and ZF Mgcawu

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Northern Cape, 30 October-27 November 2021

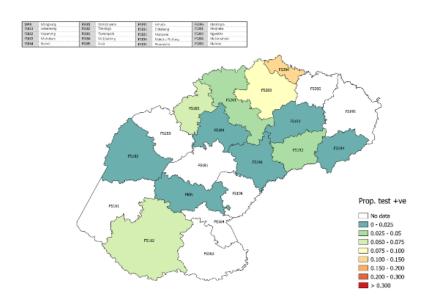
Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Frances Baard	2.07	0.79	-62.07	0.50	0.29	-42.86
John Taolo Gaetsewe	0.43	0.36	-16.67	0.07	0.00	-100.00
Namakwa	0.57	0.93	62.50	0.07	0.21	200.00
Pixley Ka Seme	0.29	0.07	-75.00	0.00	0.00	0.00
ZF Mgcawu	0.57	0.71	25.00	0.07	0.14	100.00

Free State

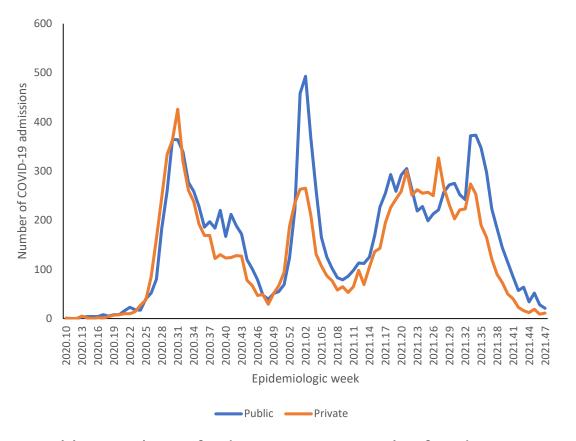


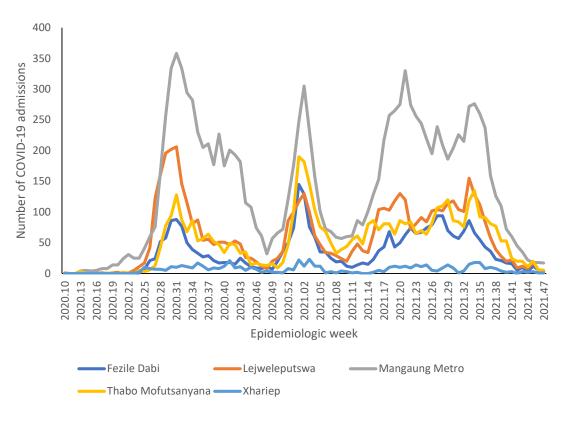


District	Date	Dept of Health	Upticks	Upswing	Case Threshold (7 day total per 100k pop)	Percentage Change compared to 7 days ago (%)
Free State						
Fezile Dabi	2021-11-27	Alert	Yes	Yes	6.86	600.00
Lejweleputswa	2021-11-27	Alert	No	No	3.82	108.33
Mangaung	2021-11-27	Alert	No	Yes	7.00	69.44
Thabo Mofutsanyane	2021-11-27	Alert	No	No	3.40	62.50
Xhariep	2021-11-27	Response	No	No	7.73	0.00



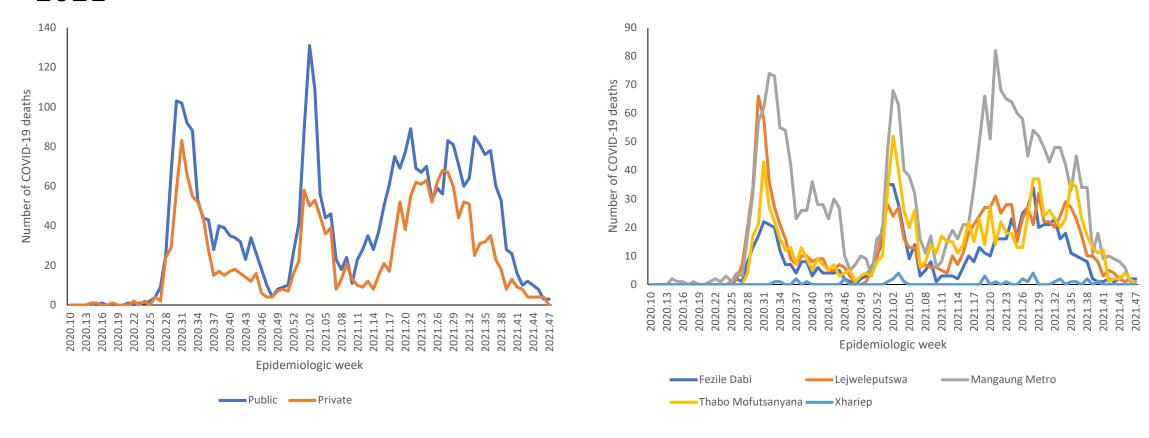
Number of reported COVID-19 admissions, by epidemiologic week and health sector (left) and province (right), Free State, 5 March 2020-27 November 2021





- Weekly number of admissions at peak of 3rd wave surpassed peak of second wave in private sector, and in Mangaung and Lejweleputswa
- Decreased admissions both sectors
- Decreased admissions all districts

Number of reported COVID-19 deaths, by epidemiologic week and health sector (left) and province (right), Free State, 5 March 2020-27 November 2021



- Weekly number of deaths at peak of 3rd wave surpassed peak of second wave in private sector, and in Mangaung and Lejweleputswa
- Decreased deaths both sectors
- Decreased deaths all districts except Fezile Dabi

Previous 14 days and current 14 days average COVID-19 admissions and deaths and percentage changes, Free State, 30 October-27 November 2021

Districts	Previous 14 days admission average	Current 14 days admissions average	Percentage change in admissions	Previous 14 days deaths average	Current 14 days deaths average	Percentage change in deaths
Fezile Dabi	1.07	0.71	-33.33	0.21	0.29	33.33
Lejweleputswa	1.86	0.79	-57.69	0.21	0.14	-33.33
Mangaung	2.86	2.50	-12.50	1.00	0.14	-85.71
Thabo Mofutsanyane	2.21	0.79	-64.52	0.43	0.14	-66.67
Xhariep	0.36	0.14	-60.00	0.00	0.00	0.00

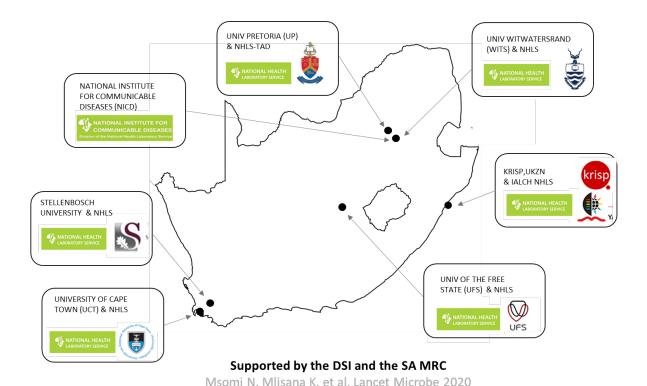
Summary

- Rapidly increasing number of new daily cases, % positivity and testing rate: younger age groups but starting to move into older age groups
- Increases mainly in Gauteng initially picked up as clusters in Tshwane but all districts now seeing increases
- Starting to see increases in Limpopo, North West, and Mpumalanga others also showing increases
- Increase in hospitalisations in Gauteng, North West
- B.1.1.529 dominates November sequencing data most sequences from Gauteng; S-Gene Target Failure suggests widespread (involving all provinces)



GS-SA Network for Genomic Surveillance in South Africa (NGS-SA)

SARS-CoV-2 Sequencing Update 1 December 2021



science & innovation















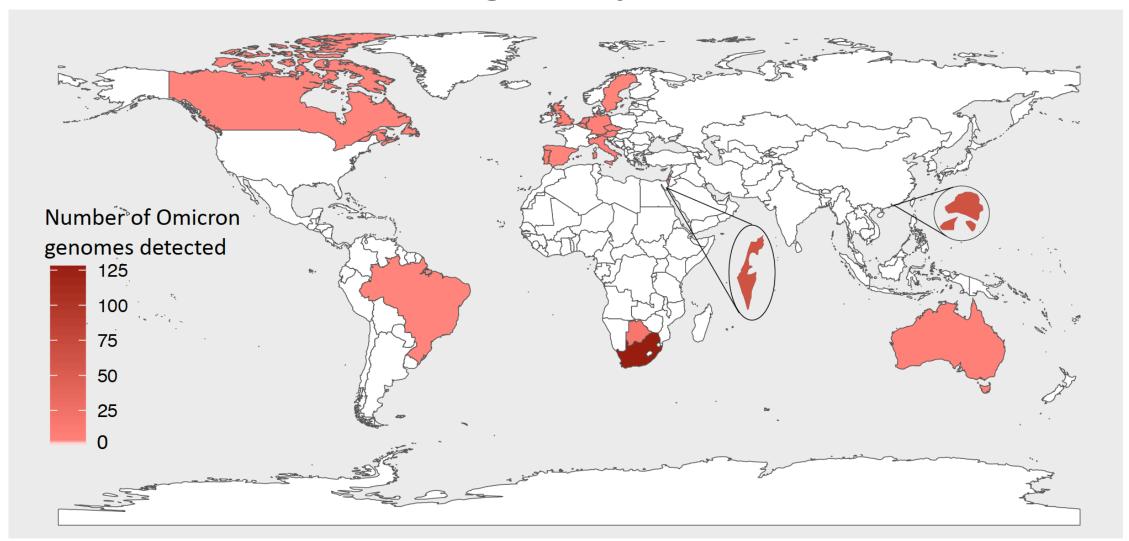








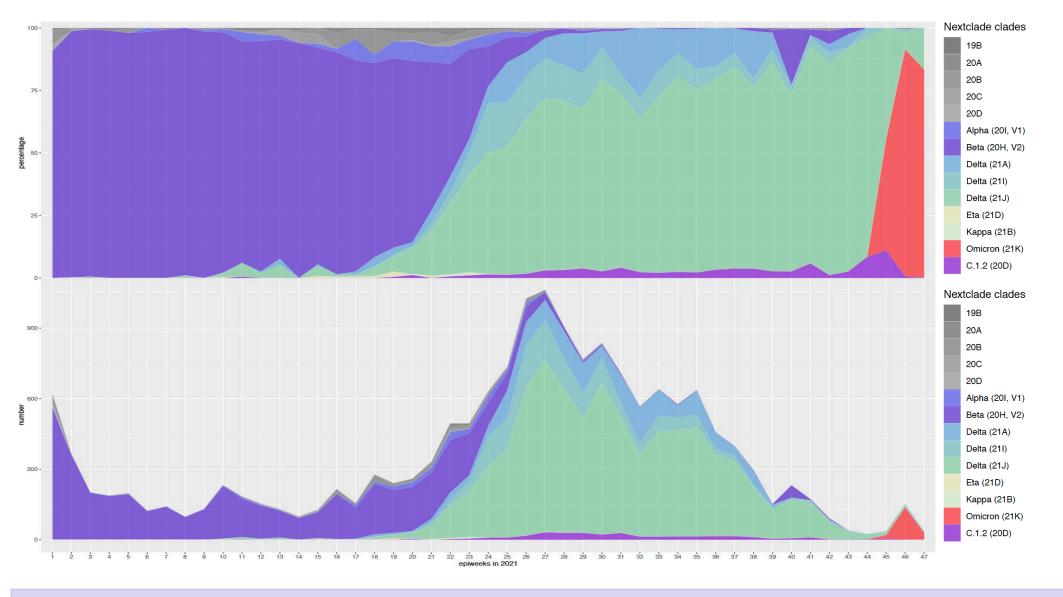
Omicron global prevalence







Proportion and number of clades by epiweek in South Africa, 2021 (N= 17 315)



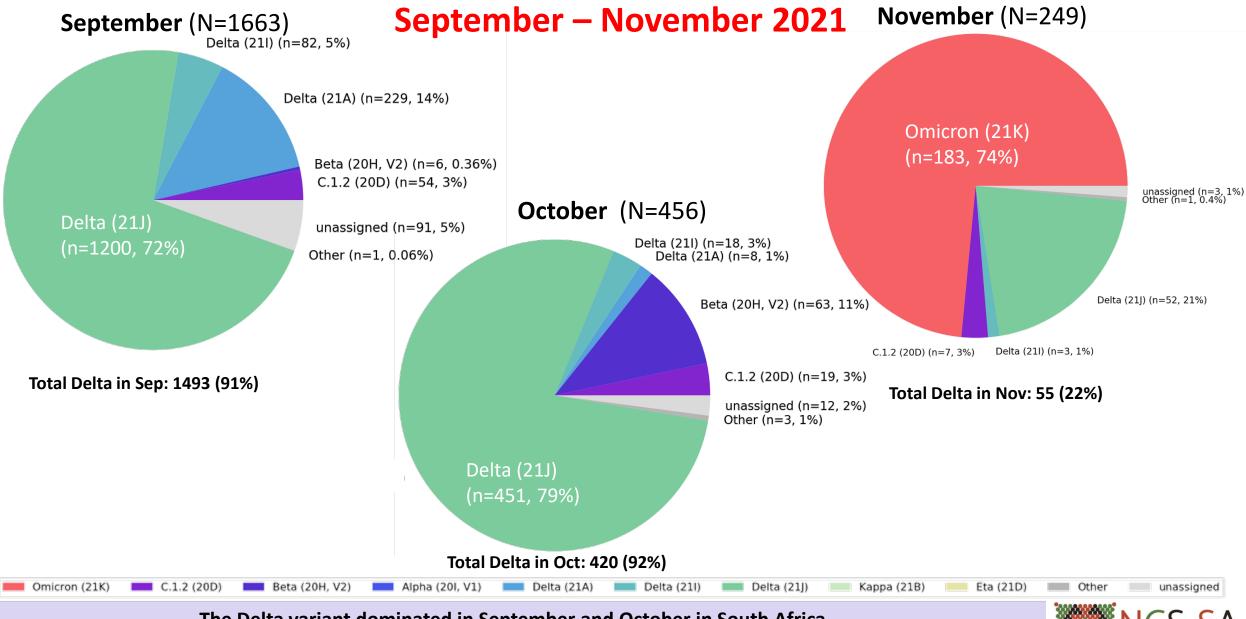
Sequencing data ending epi week 47 (ending 27 November 2021)

Currently in epi week 48 (ending 4 December 2021)

Delta dominated South Africa's third wave with >90% frequency in October, with C.1.2 detection remaining <4%. Omicron dominates November sequencing data but sequencing is ongoing to determine its true prevalence.



Prevalence of Variants of Concern (VOC) and Variants of Interest (VOI) in



The Delta variant dominated in September and October in South Africa.

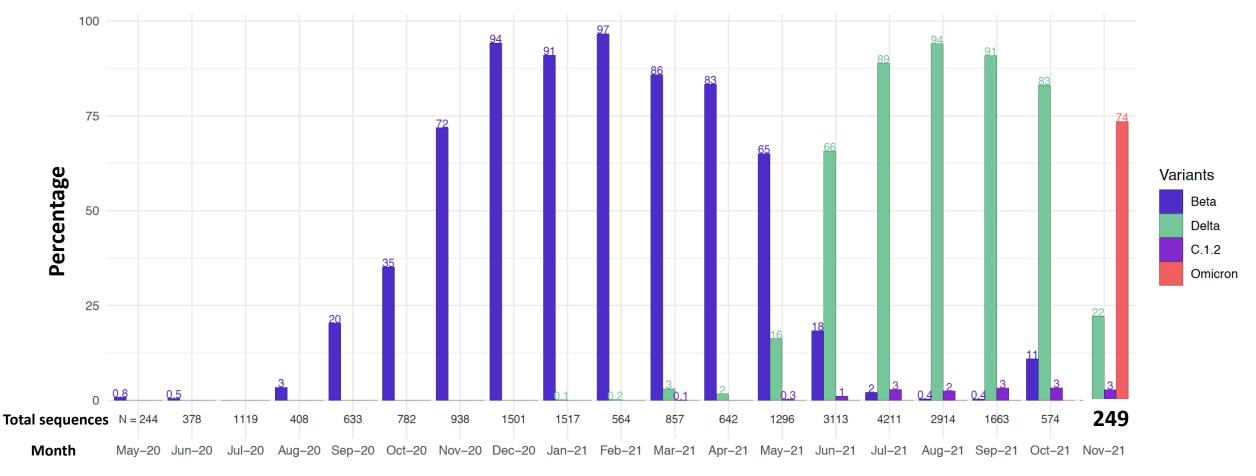
Omicron was first detected in South Africa in November and dominates comprising 74% (183/249) of sequences.



Detection Rates: Beta, Delta, C.1.2 and Omicron



Detection rates of variants being monitored in South Africa

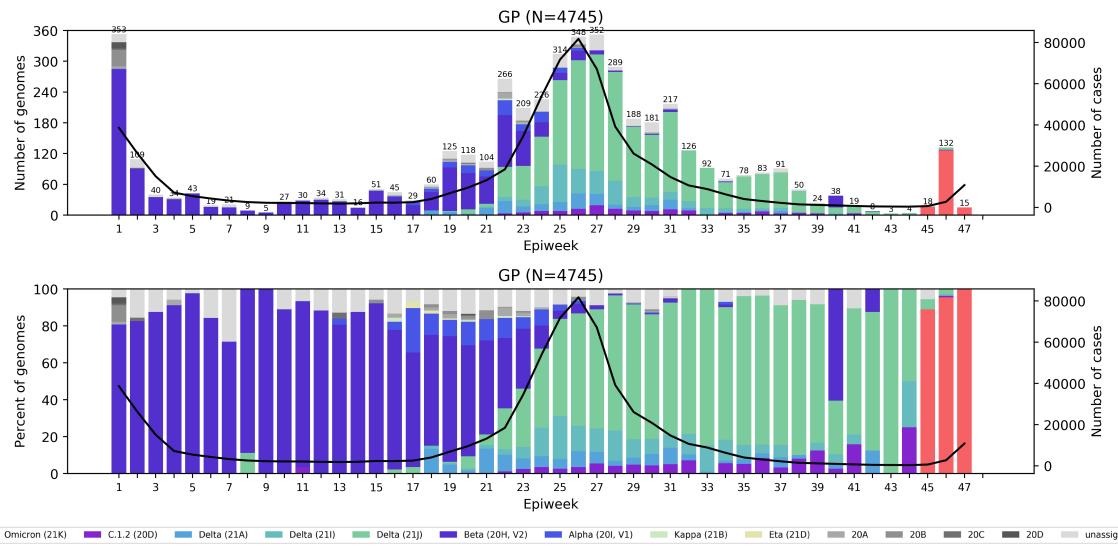


C.1.2 continues to be detected at ≤ 4% of sequences in November.

Prevalence of Beta increased in October but has not been detected in November.

Omicron was first detected in South Africa on November 8th and accounts for 74% (n=183/249) of these genomes.

Gauteng Province, 2021, n = 4745





Summary

- New B.1.1.529 (21K) lineage has been designated Variant of Concern Omicron
 - Earliest detection in South Africa: 8 November, Gauteng
 - Omicron dominates November sequencing data at 74% of genomes (n=183/249). Sequencing is ongoing to determine prevalence of Omicron in other provinces.
 - Omicron has now been detected in 19 countries worldwide
 - More information can be found at https://www.nicd.ac.za/frequently-asked-questions-for-the-b-1-1-529-mutated-sars-cov-2-lineage-in-south-africa/
- Delta variant dominated in all provinces until end October
 - The Delta sub-lineages vary by province
- C.1.2 lineage detected in all provinces of South Africa with prevalence of <4% of genomes per month



Acknowledgements





Division of the National Health Laboratory Service



NHLS (including institutes & subsidiaries)

NICD COVID-19 response team

SA COVID Modeling Consortium

NDOH IMT epi team

DATCOV team NICD