

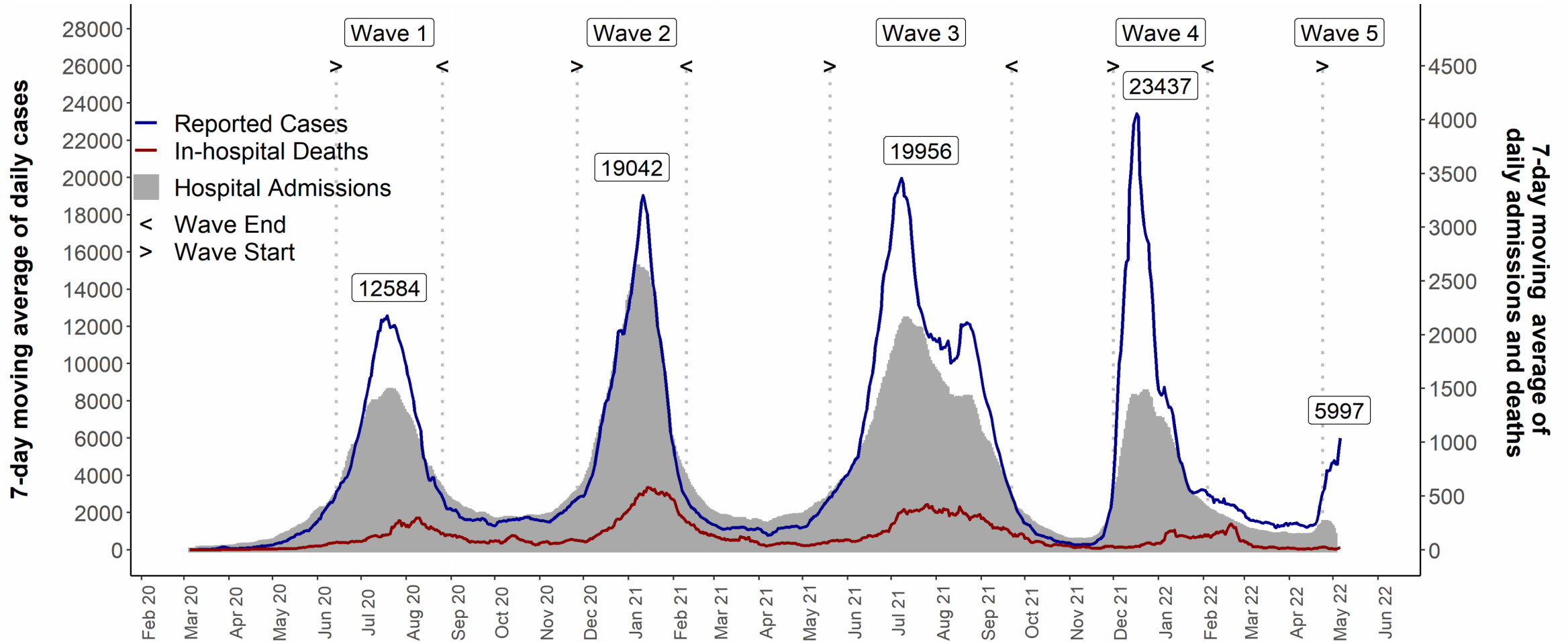


COVID-19 UPDATES

08 May 2022

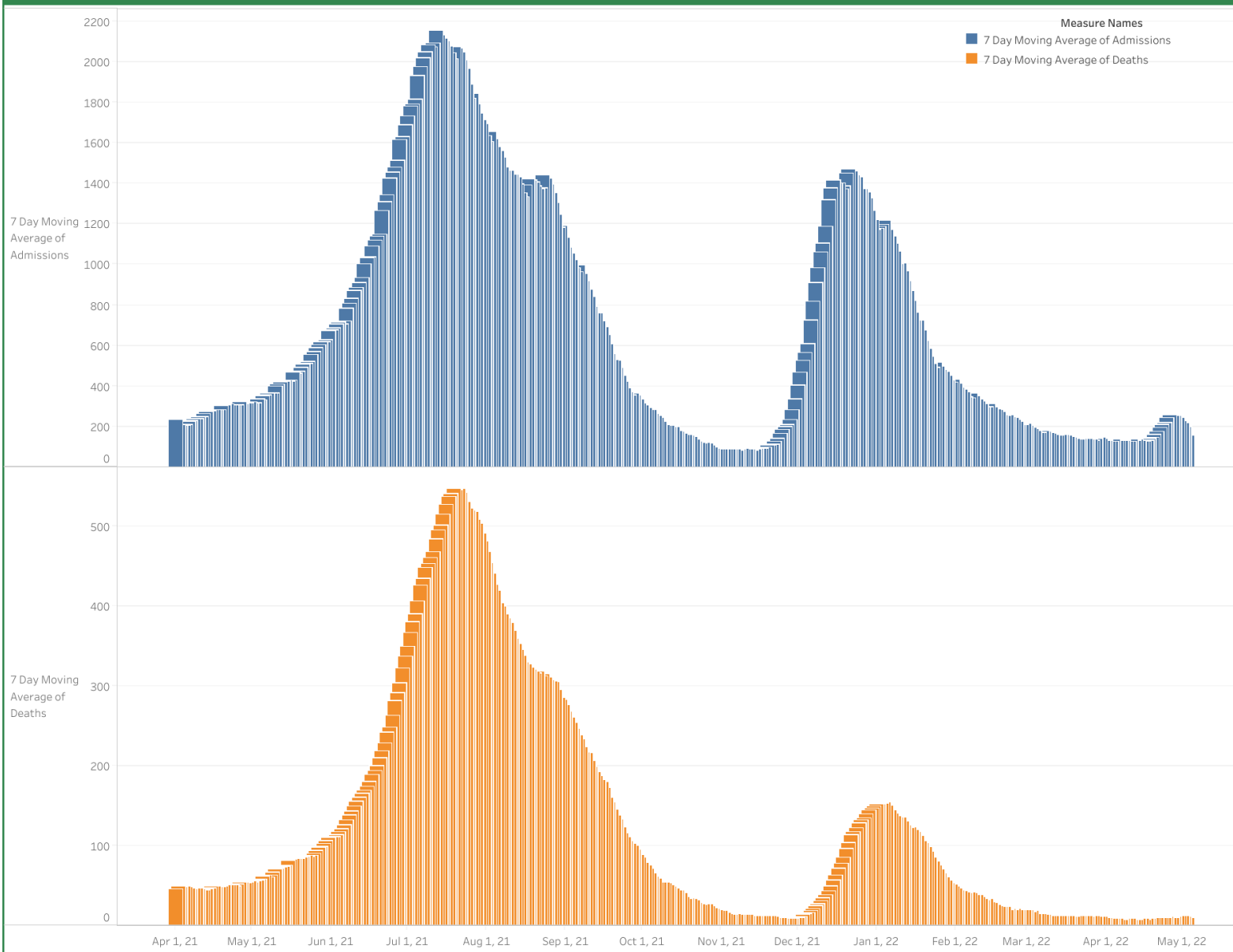
Covid-19 in South Africa

up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

DATCOV Hospital Admissions and In-Hospital Deaths, 7-Day Moving Average - National

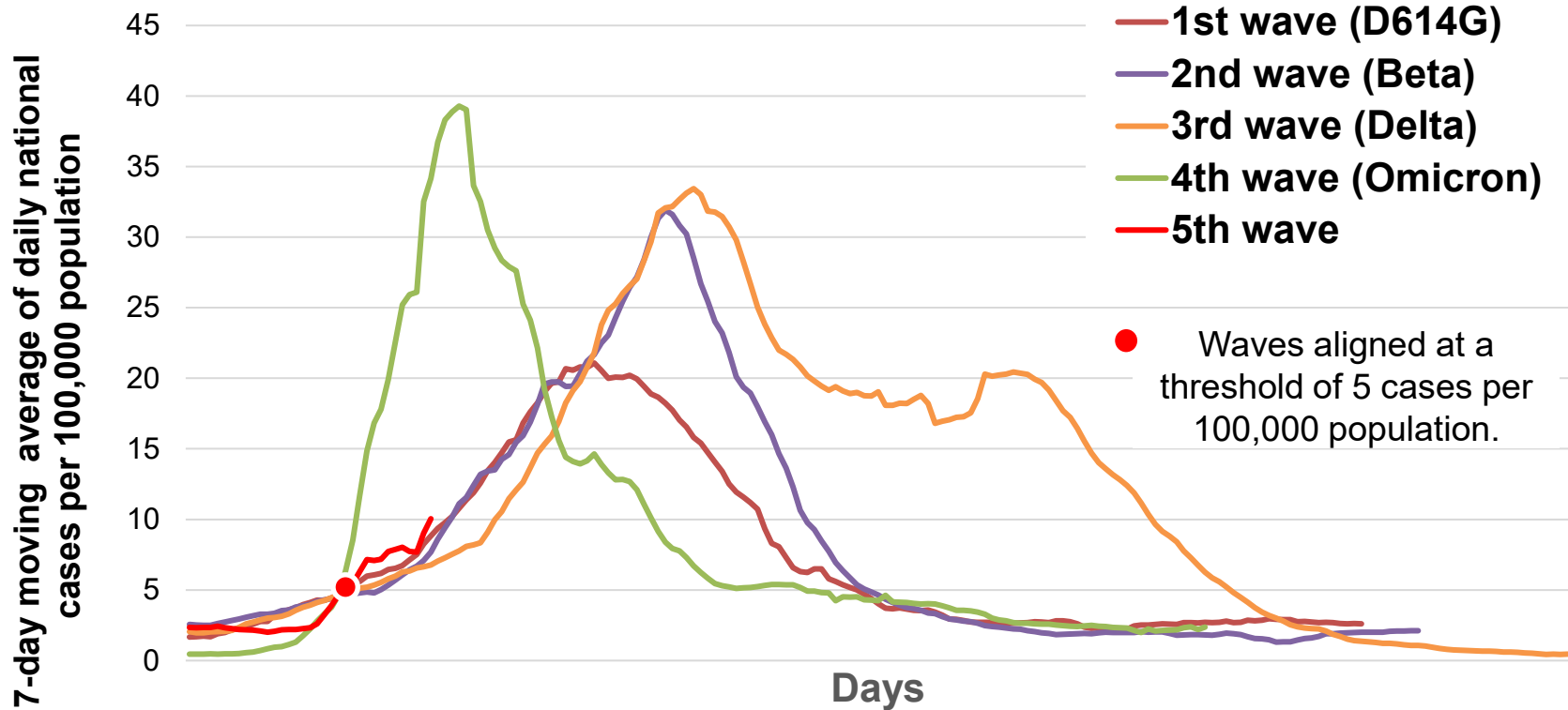


South Africa: National hospital admissions & in-hospital deaths

Data up to - 03 May 2022

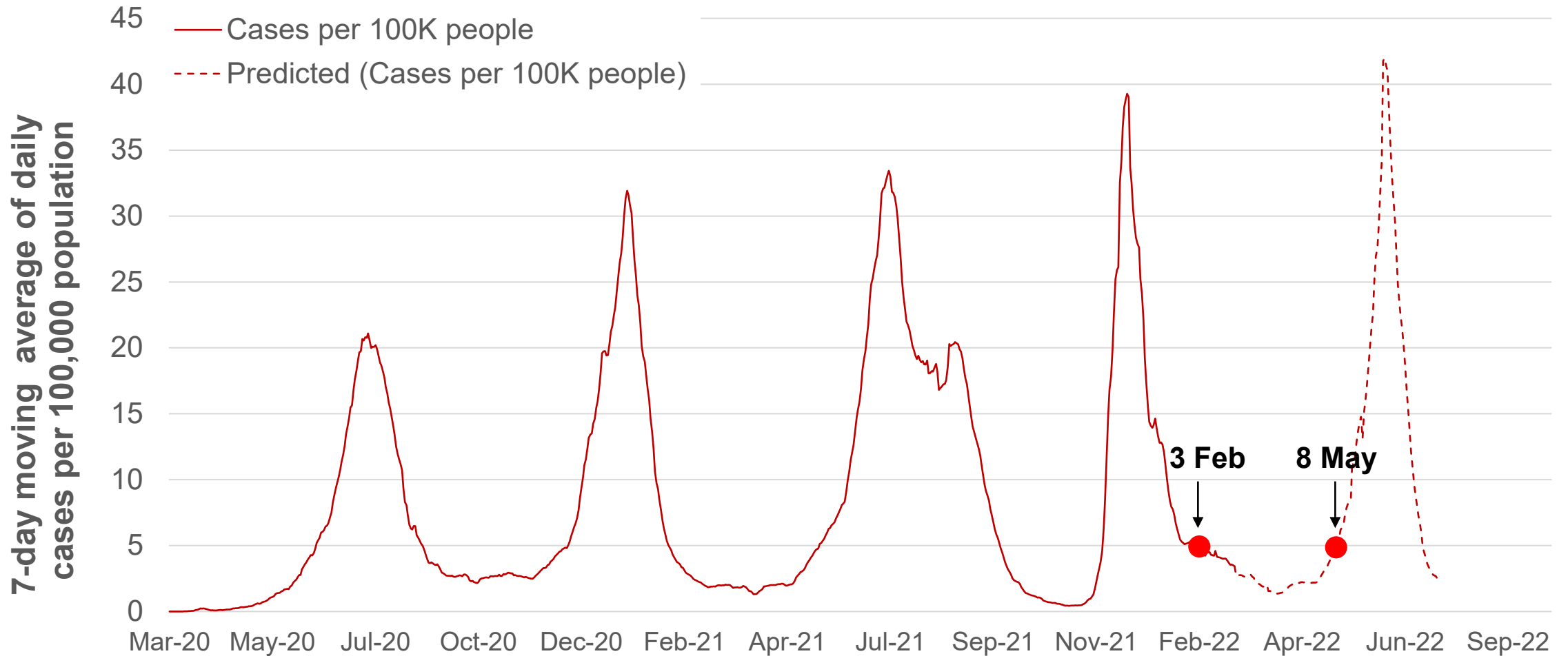
SARS-Cov-2 cases in 1st, 2nd & 3rd and 4th waves: South Africa

up to - 06 May 2022



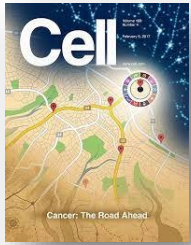
Data source: Department of Health; Analysis: Marothi LETSOALO; Ande MCHUNU

Will there be a 5th wave in South Africa?



Note: New variant and other factors may change epidemic trajectory. These estimations are based on several assumptions and not on mathematical modelling

What will Pi look like? - Predicting the impact of future immune escape variants on the pandemic



Population impact of SARS-CoV-2 variants with enhanced transmissibility and/or partial immune

Mary Bushman^{1*}, Rebecca Kahn^{1†}, Bradford P. Taylor^{1†}, Marc Lipsitch¹, William P. Hanage¹

Characteristics of future variants:

- *More transmissible – faster doubling time*
- *Immune escape – causes infection in those with natural & vaccine immunity*
- *Moderate immune escape poses a low risk unless there is \uparrow transmissibility*
- *Severity due to viral virulence & existing immunity – past infection & vaccination*

What Covid-19 measures to maintain?

1. **Testing: increased access to testing, including home rapid antigen tests (isolation of Covid+ to continue), for ongoing surveillance through diagnostic & phylogenetic sequencing**
2. **Restrictions on indoor mass gatherings (e.g., Ballito Rage)**
3. **Indoor mask requirement – shops, malls, public transport, offices etc.**
4. **Vaccine requirement to enter public indoor spaces, e.g., shops & malls**
5. **Prepare for next wave: may need to increase restrictions again**



Estimated effective reproduction rate (R) of Covid-19 in South Africa

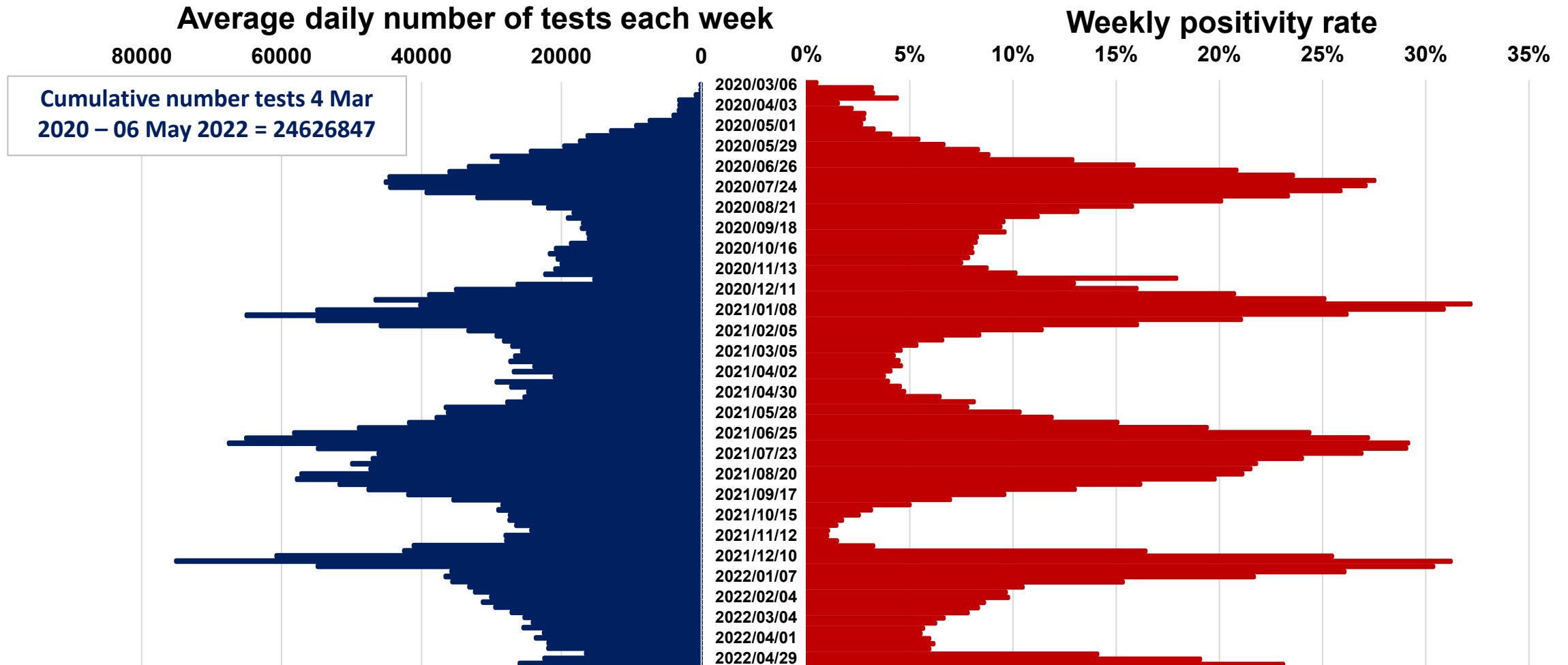
up to - 01 May 2022



Source: Our World in Data; data explorer; Johns Hopkins University [COVID-19 Dashboard](#)

Average daily tests and proportion of positive tests

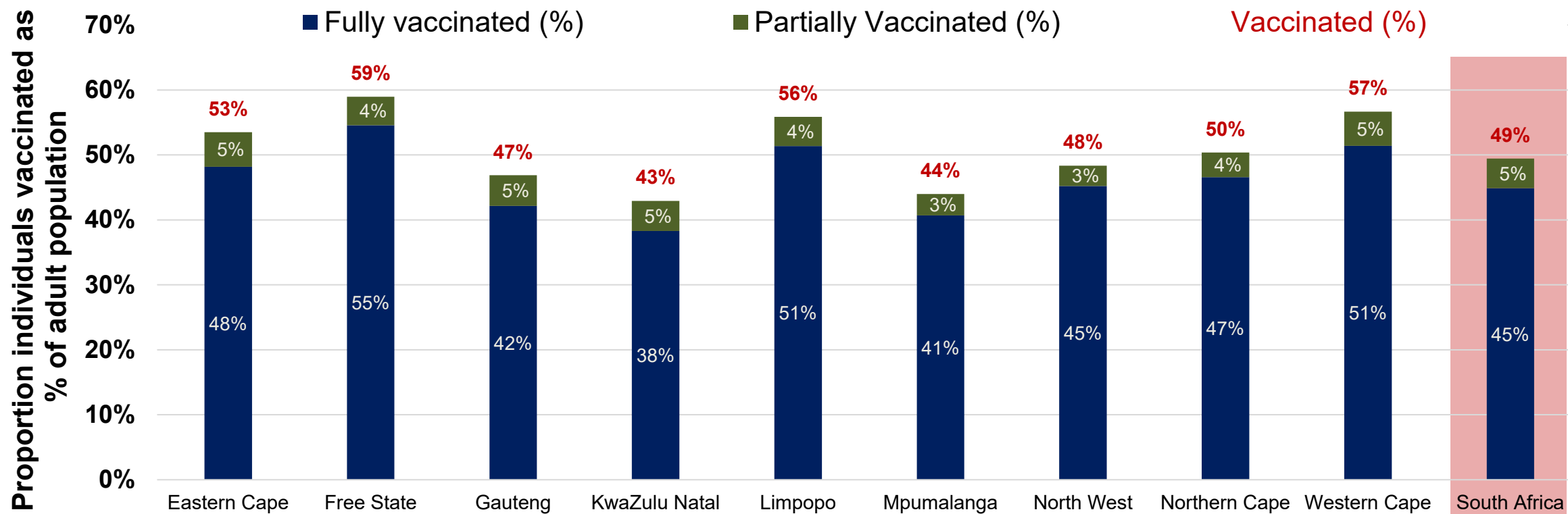
up to – 06 May 2022



Data source: Department of Health

Proportion of individuals vaccinated as % of adult population

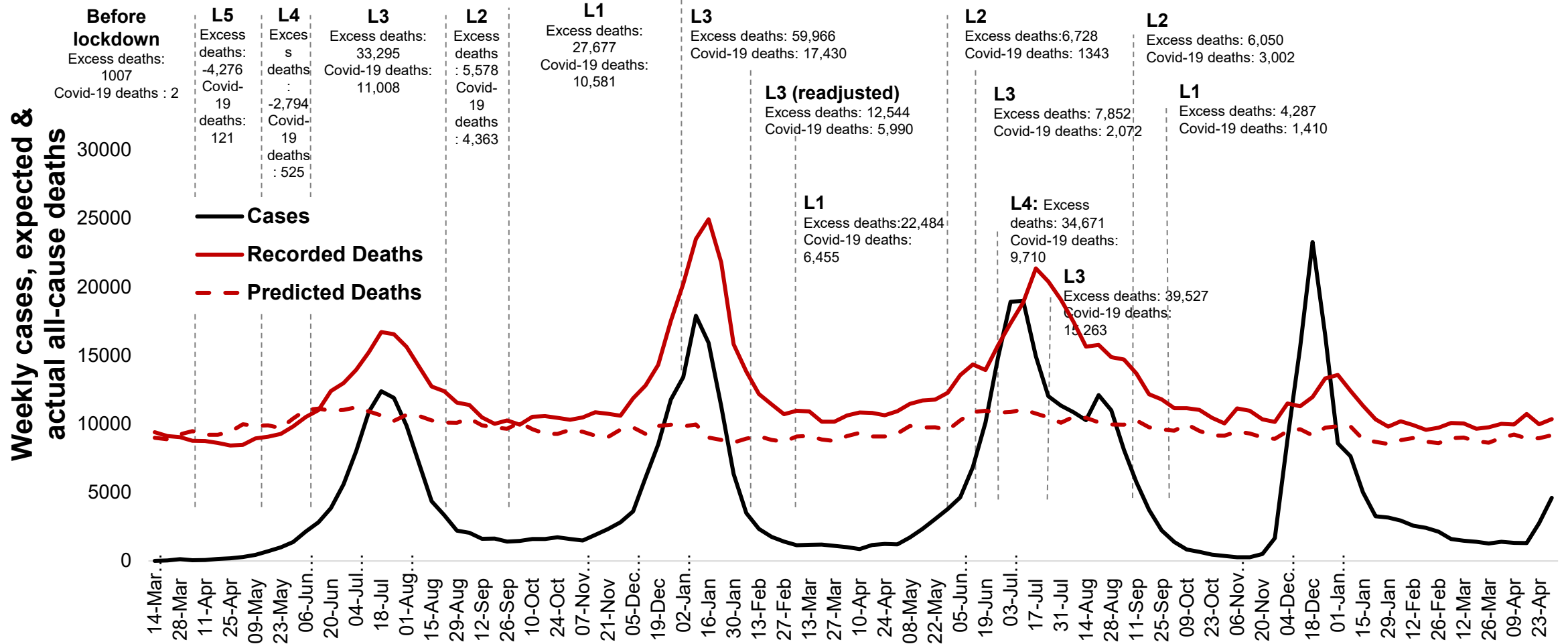
up to – 06 May 2022



Source: Department of Health. <https://sacoronavirus.co.za/latest-vaccine-statistics/>

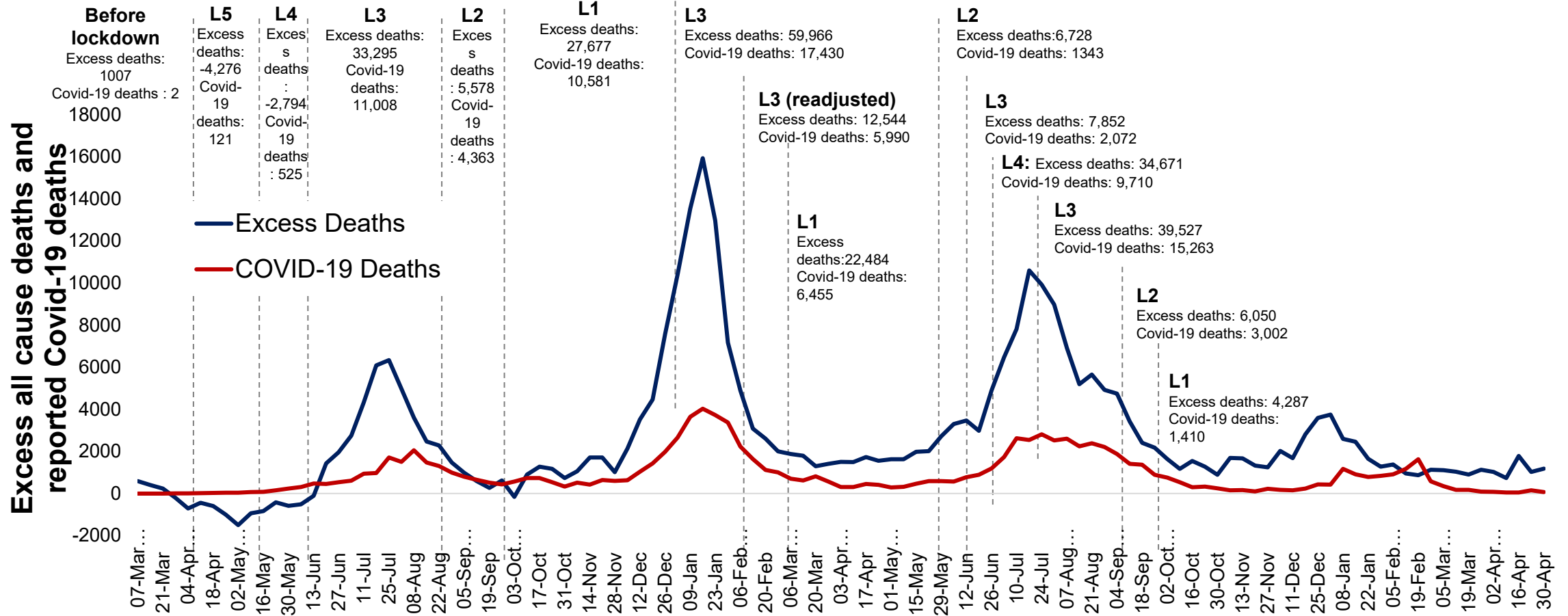
Expected & actual all-cause deaths during Covid-19

up to – 30 April 2022



Weekly excess all cause deaths & reported Covid-19 deaths

up to – 30 April 2022



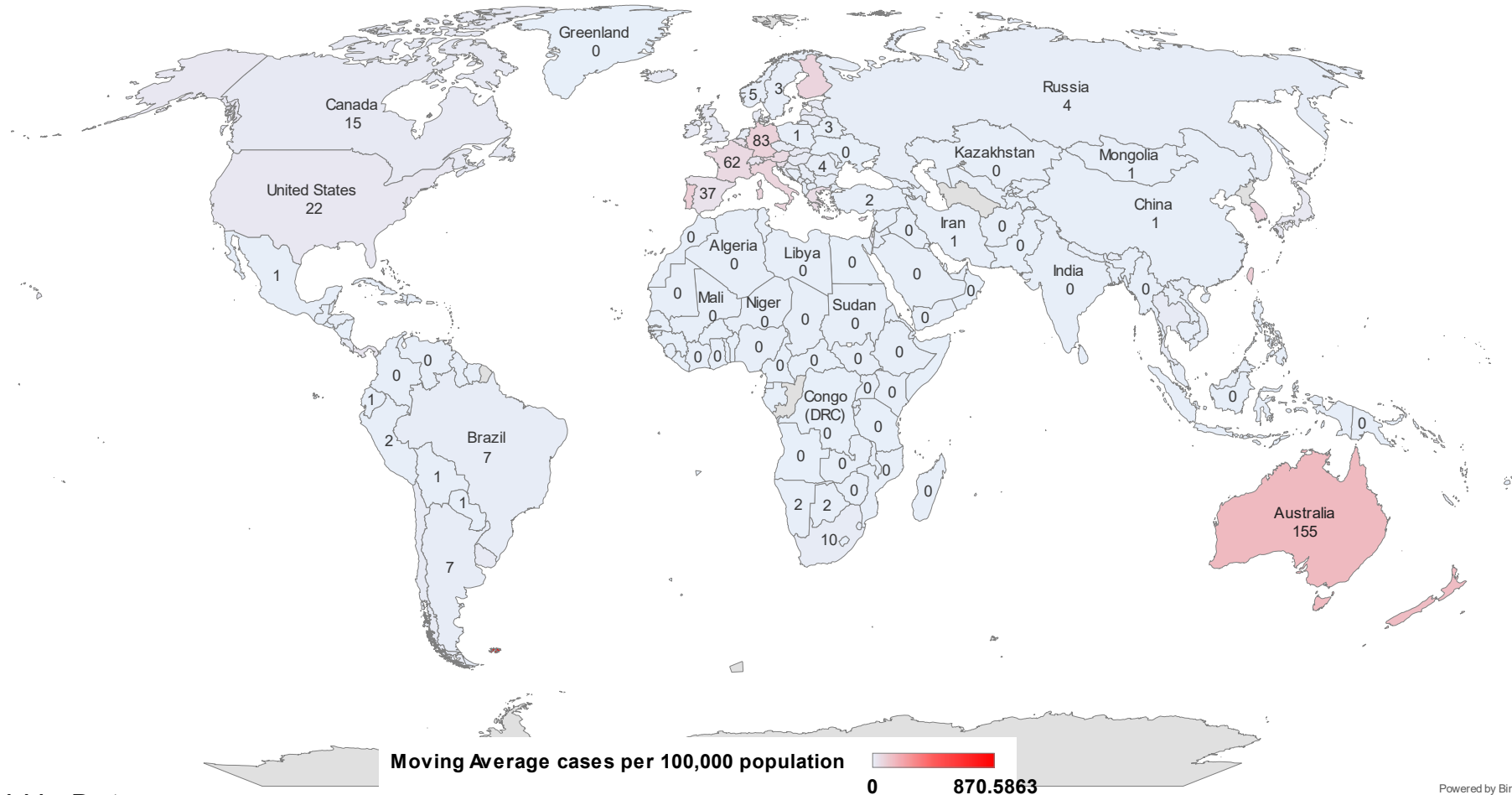
Source: Bradshaw D, et al



Global epidemiology: Reported cases by country, region and the world

Global Covid-19 epidemic

7-day moving average cases per 100,000 population
up to - 06 May 2022



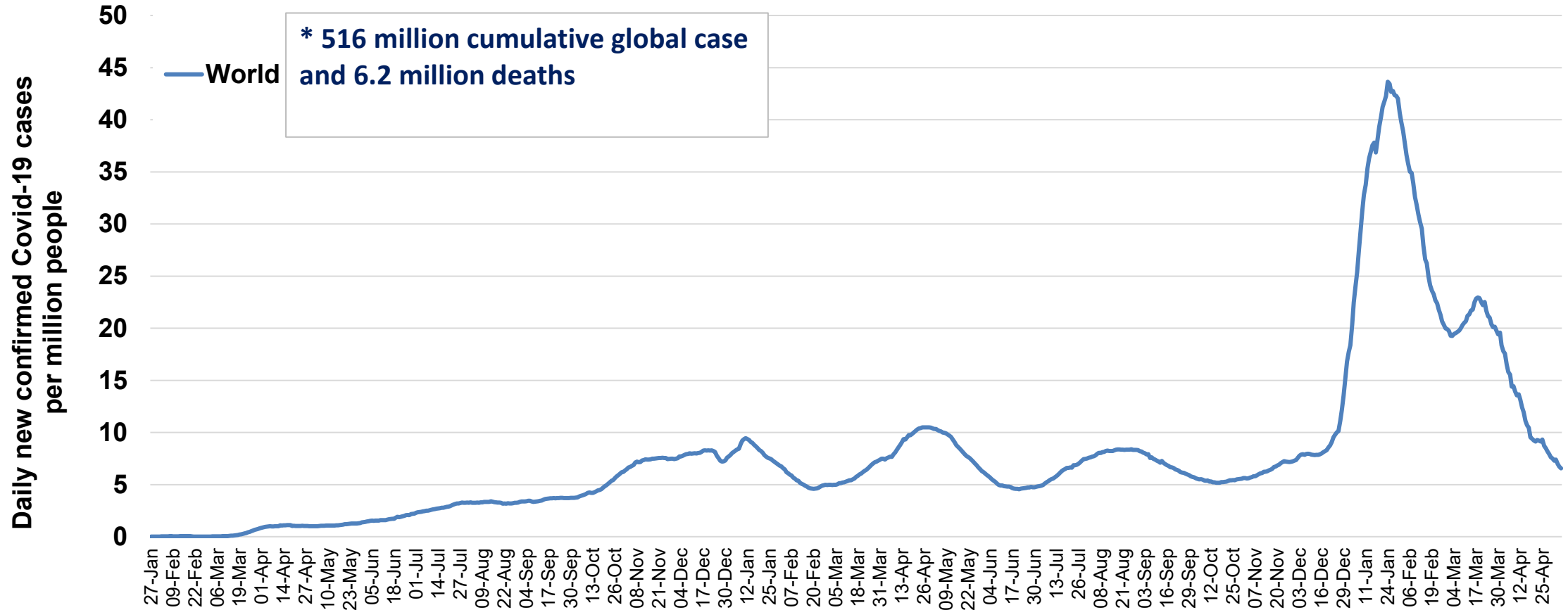
Source: Our World in Data

Powered by Bing
Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, OpenStreetMap, TomTom, Wikipedia



Global SARS-CoV-2 cases: Trends

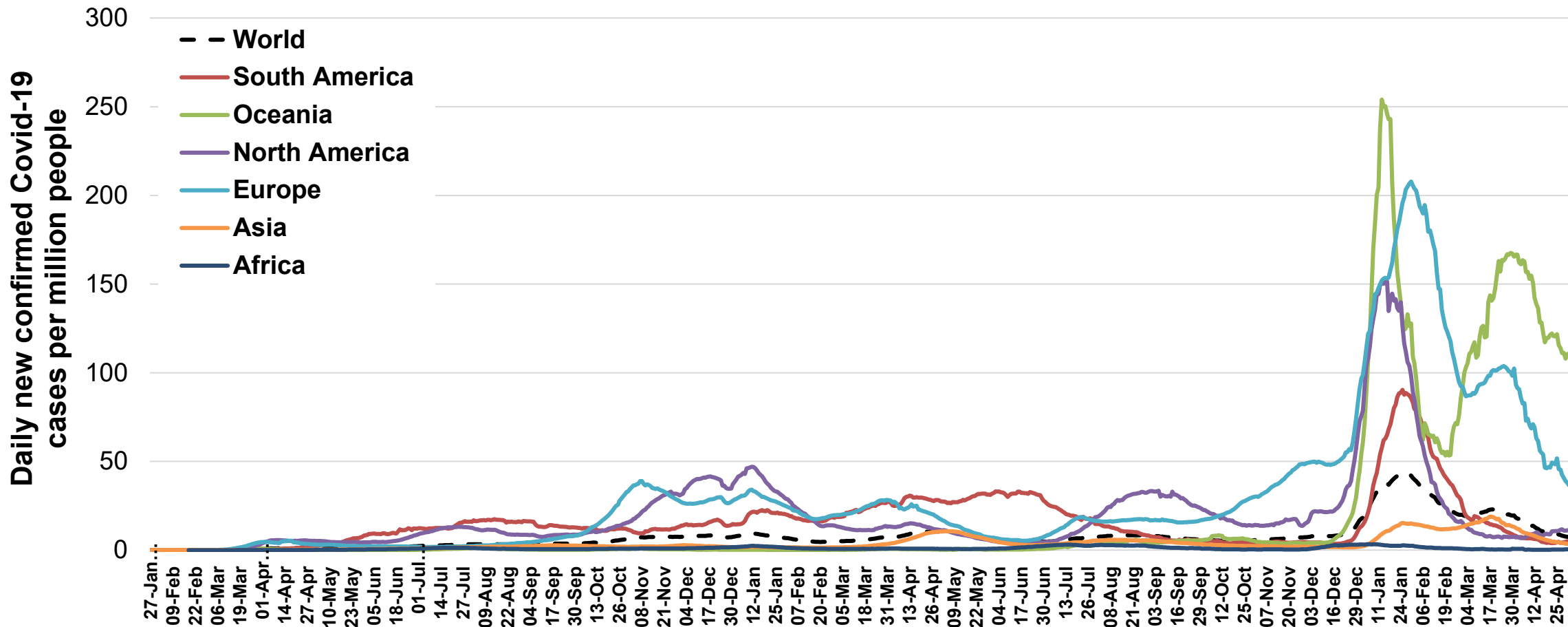
up to - 06 May 2022



Data Source: Our World in Data; NICD

Cases stratified by continents showing the waves

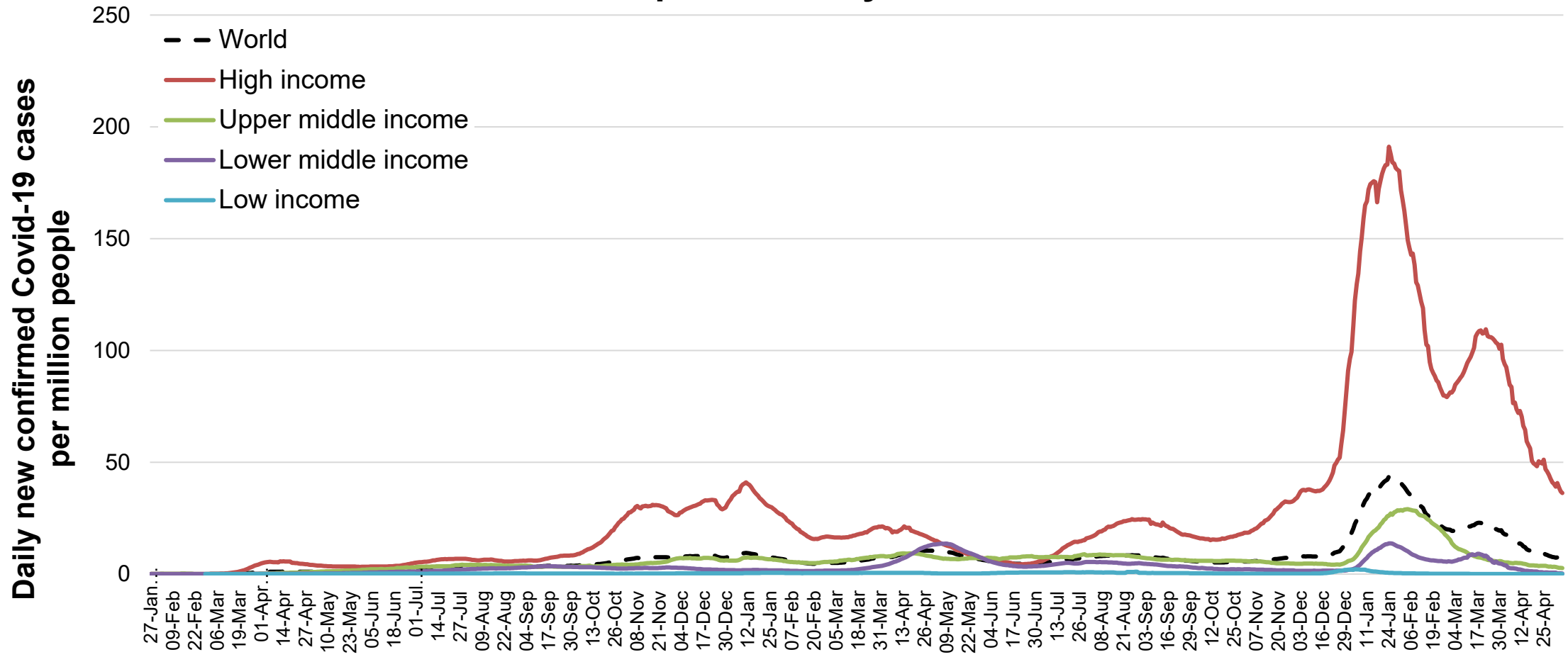
up to - 06 May 2022



Data Source: Our World in Data; NICD

Covid-19 cases stratified by country income level

up to - 06 May 2022



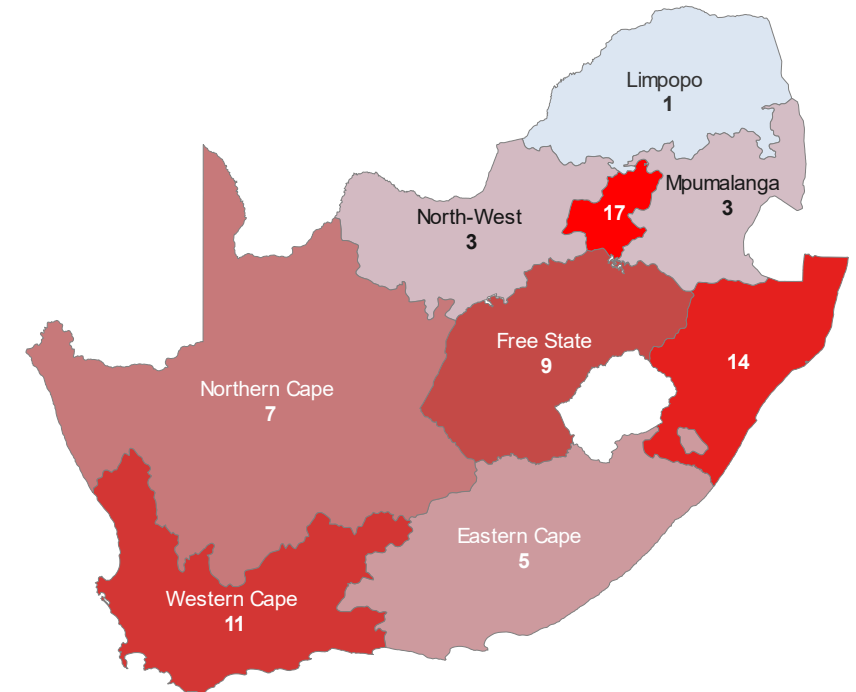
Data Source: Our World in Data; NICD

South Africa: Trends in reported provincial SARS-CoV-2 cases

Daily new cases over last 7 days per 100,000 pop

up to - 06 May 2022

Province	Population per 100,000	7 Days Moving Average			Increase / Decrease	
		at 7 days back	Per 100K at 7 days back	at a day back 100K at a day back		
Eastern Cape	67	182	3	336	5	84%
Free State	29	173	6	275	9	59%
Gauteng	155	2201	14	2589	17	18%
KwaZulu Natal	115	1170	10	1566	14	34%
Limpopo	59	50	1	60	1	21%
Mpumalanga	47	105	2	147	3	39%
North West	41	98	2	136	3	39%
Northern Cape	13	54	4	87	7	60%
Western Cape	71	572	8	802	11	40%
South Africa	597	4605	8	5997	10	30%
Africa	13410	5225	0	6991	1	34%
World	77952	599321	8	515924	7	-14%



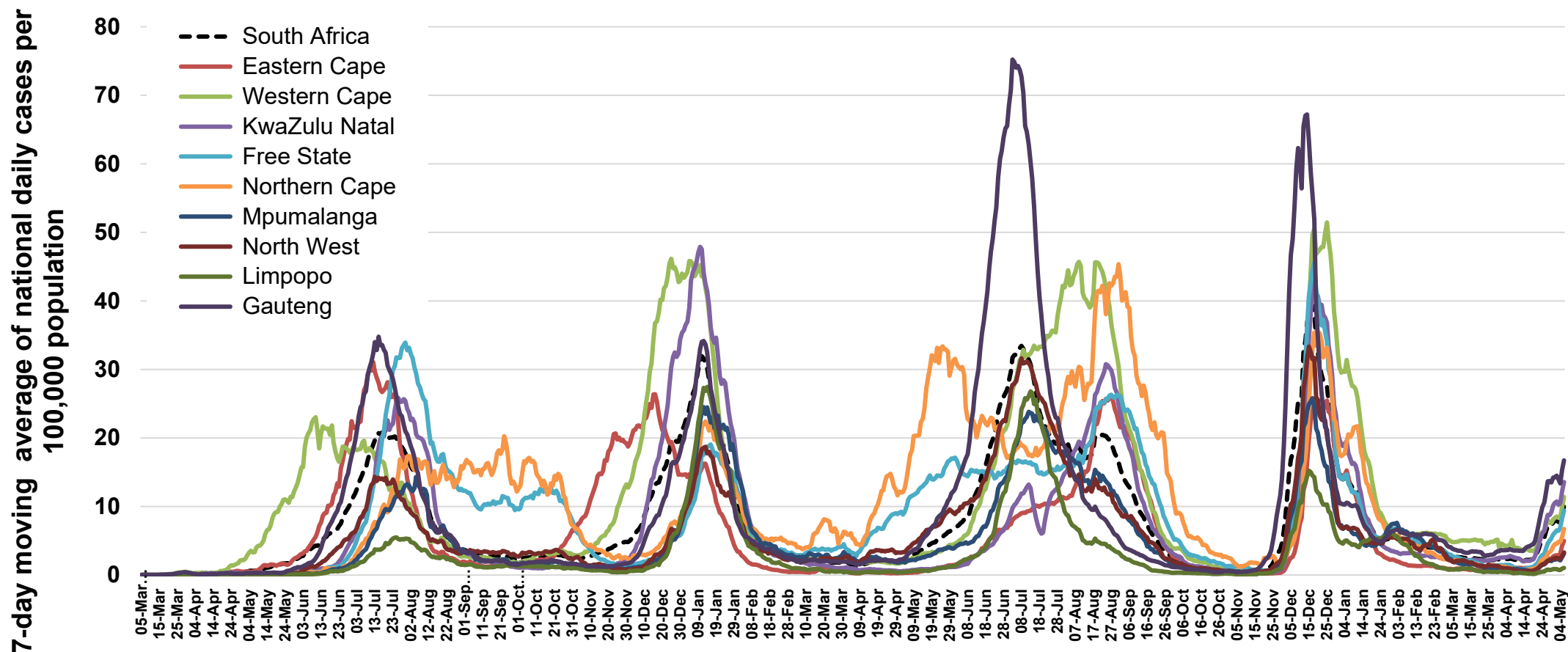
7 days moving average per 100K population

1 9 17

Data source: Department of Health

Confirmed SARS-Cov-2 cases by province

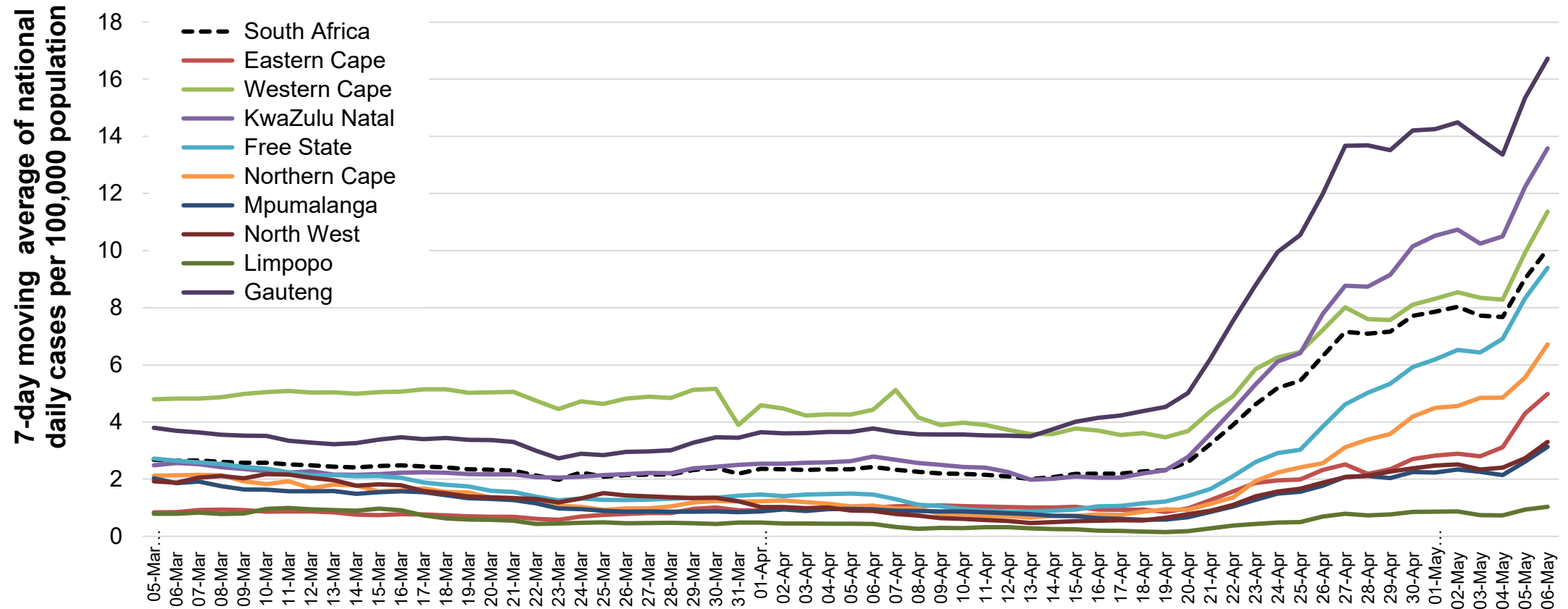
7-day moving average cases per 100,000 population
up to – 06 May 2022



Data source: Department of Health; Analysis

Confirmed SARS-Cov-2 cases by province

7-day moving average cases per 100,000 population
up to – 06 May 2022

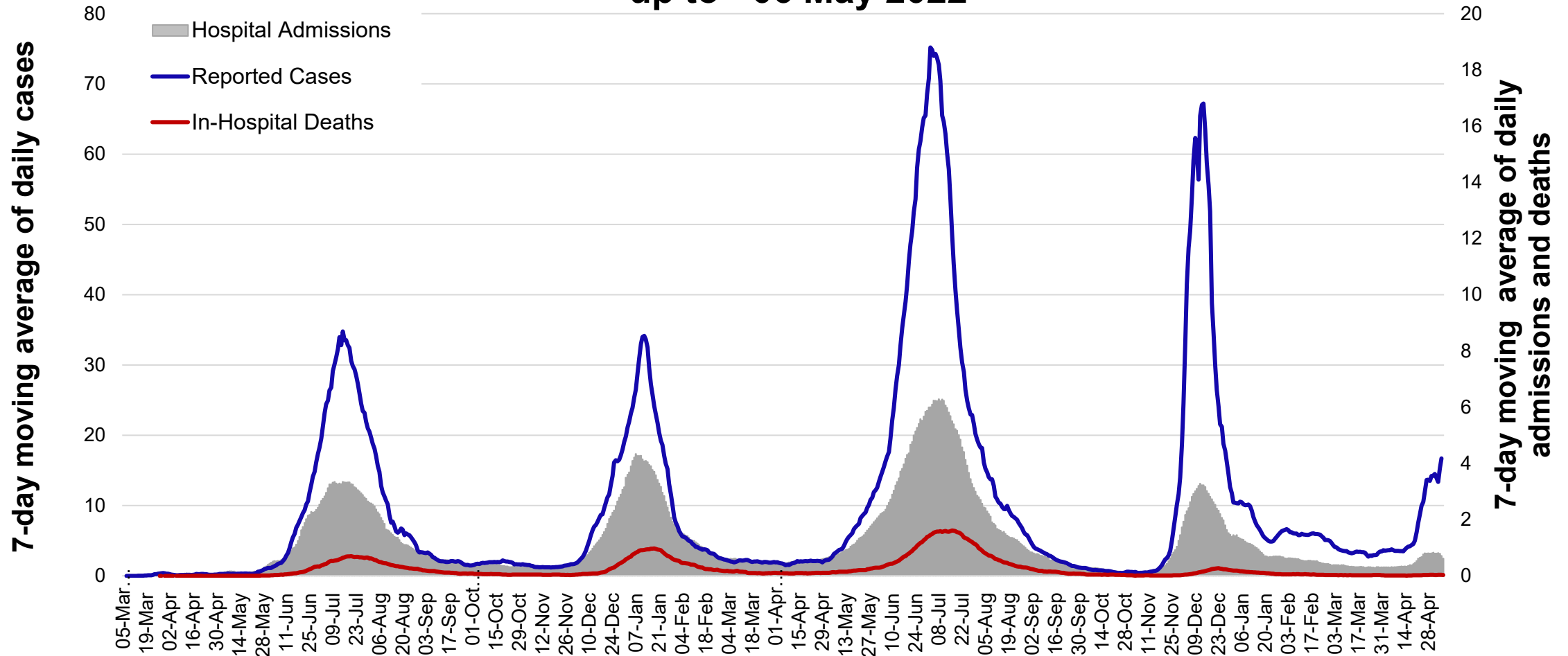


Data source: Department of Health; Analysis

SARS-CoV-2 in Gauteng province

7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths

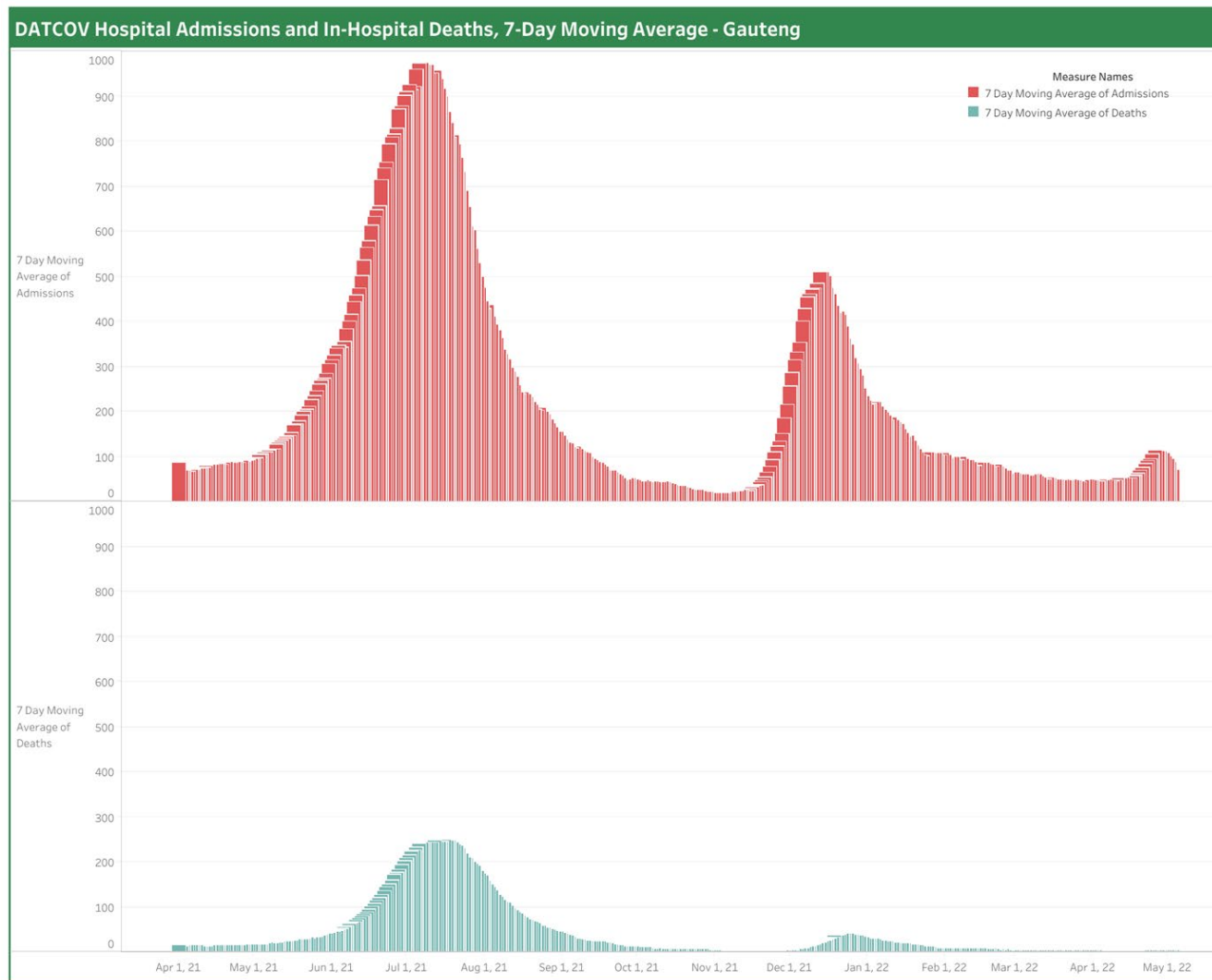
up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

Gauteng Hospital Admissions & In-Hospital Deaths

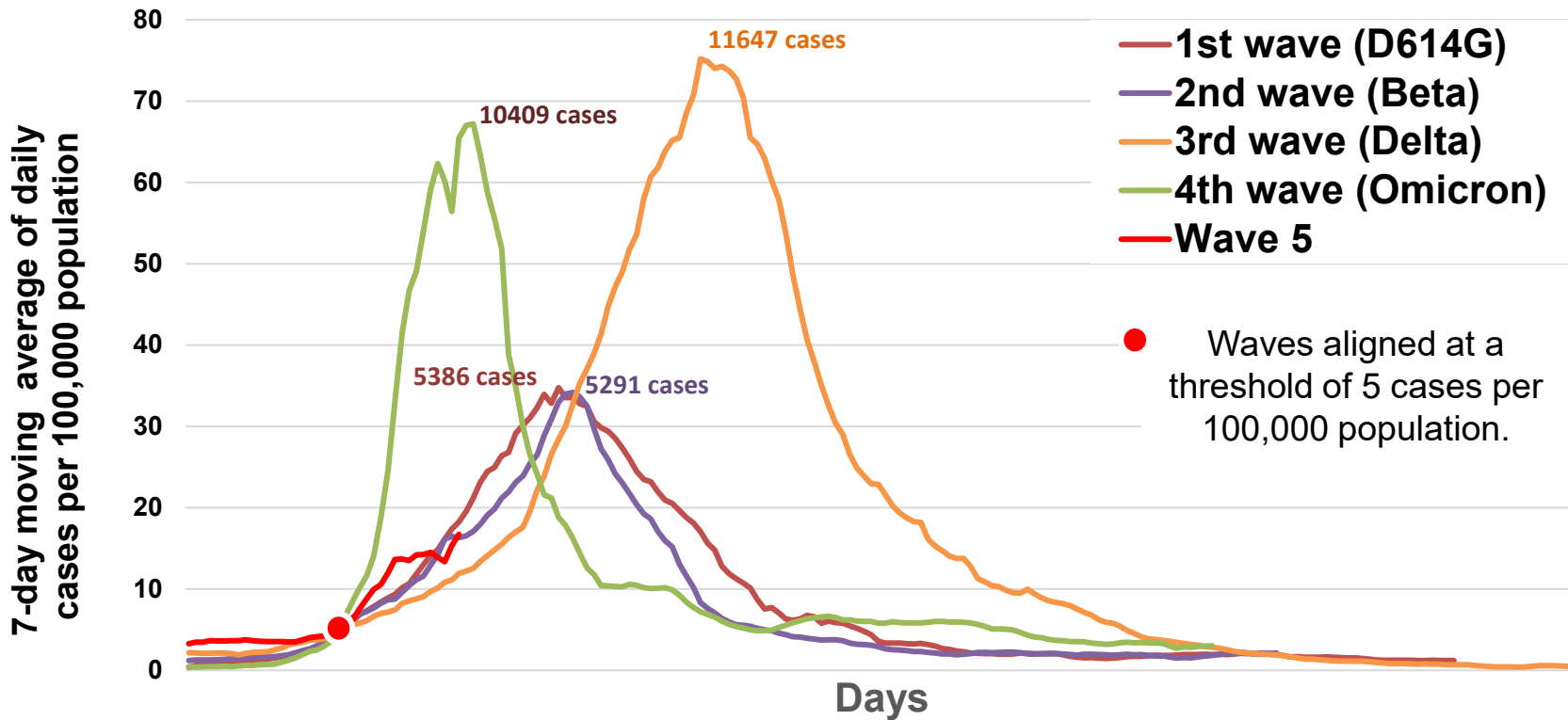
up to - 03 May 2022



Analysis: National Surveillance Centre Team (NDoH AMD)

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Gauteng

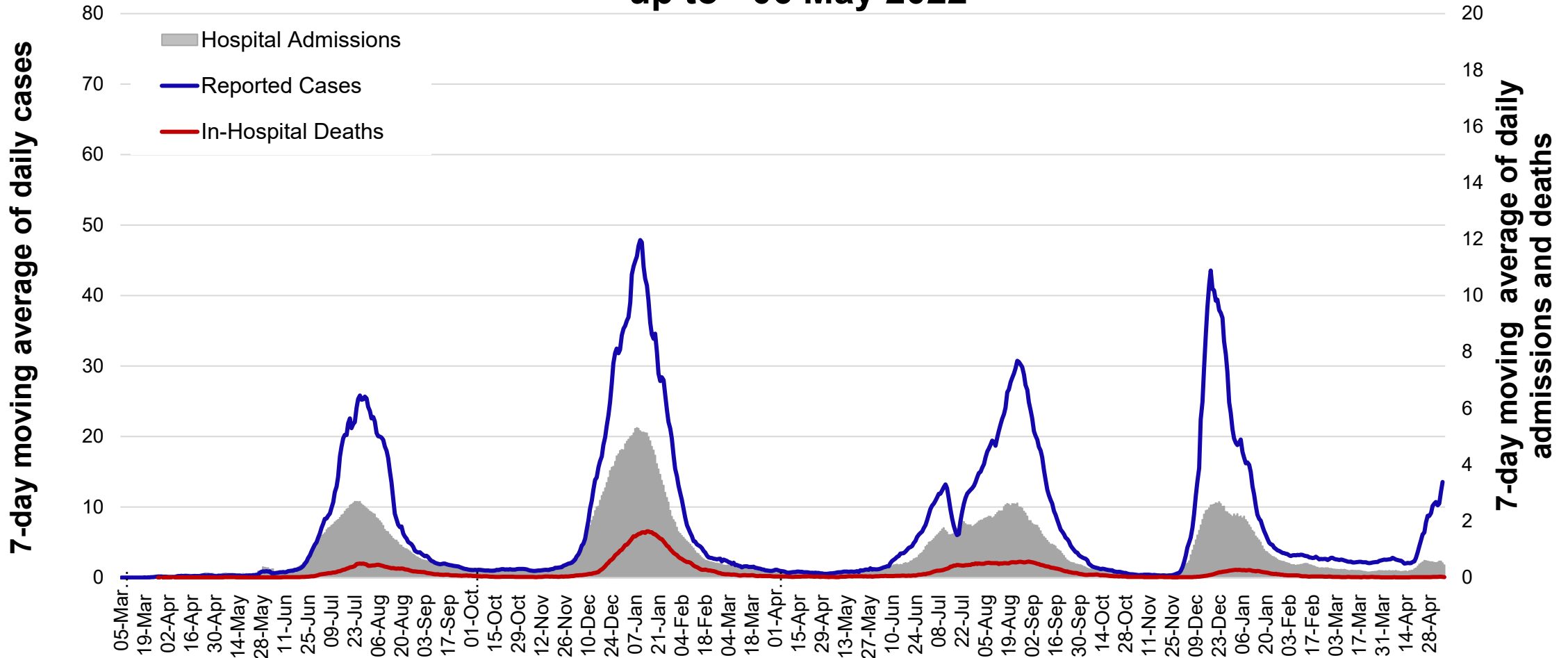
7-day moving average cases per 100,000 population
up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in KwaZulu-Natal

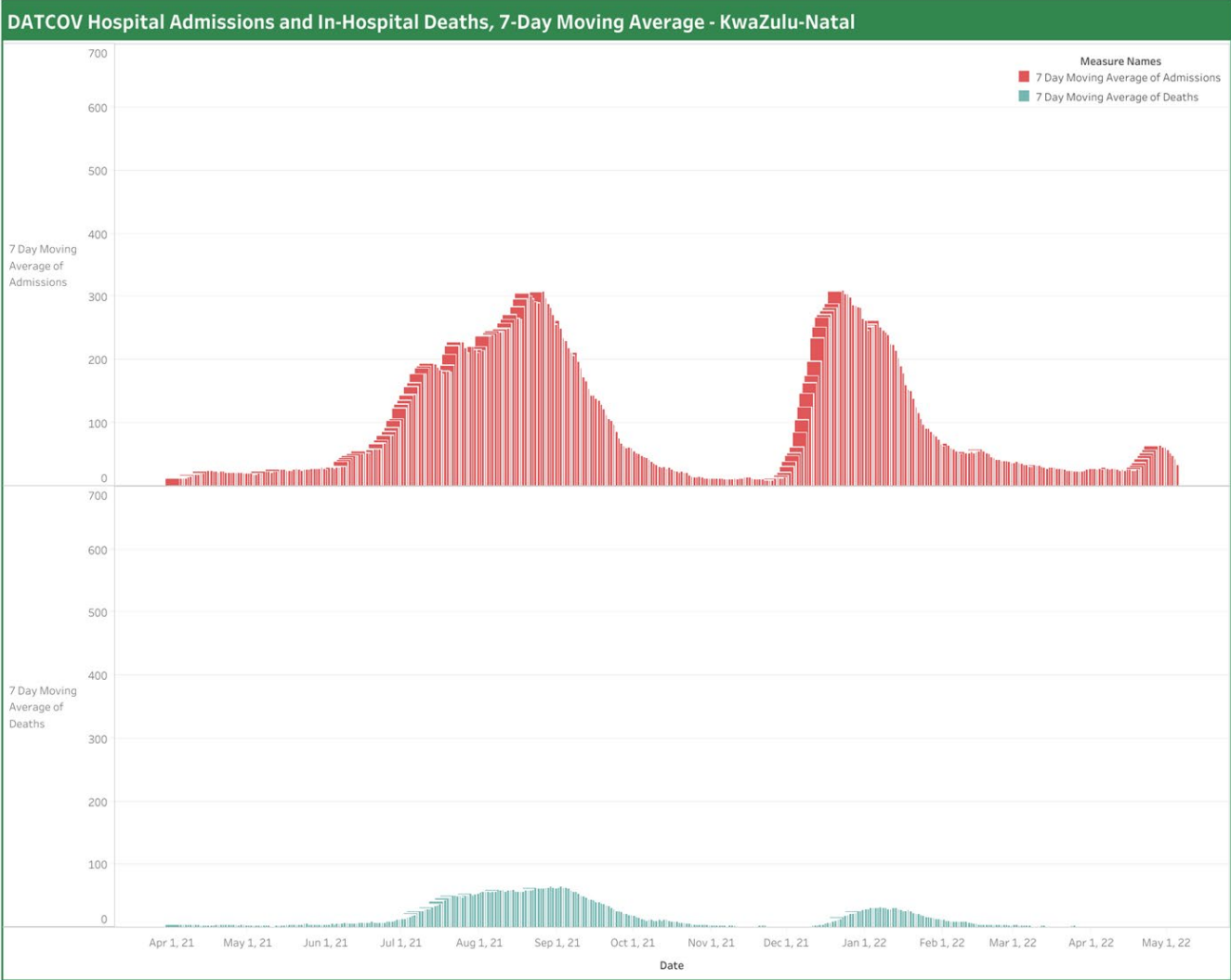
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

KwaZulu-Natal Hospital admissions & in-hospital deaths

up to - 03 May 2022

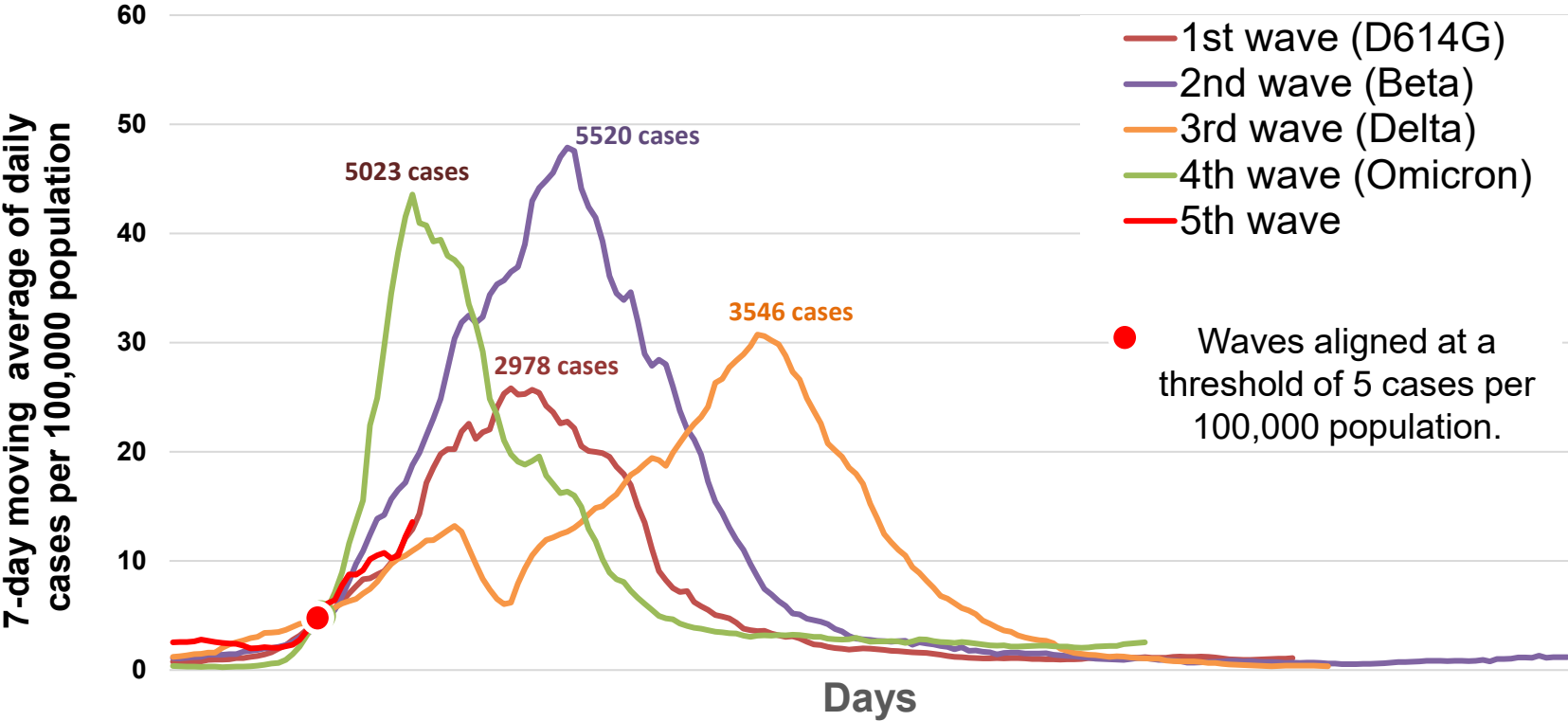


Analysis: National Surveillance Centre Team (NDoH AMD)



SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: KwaZulu Natal

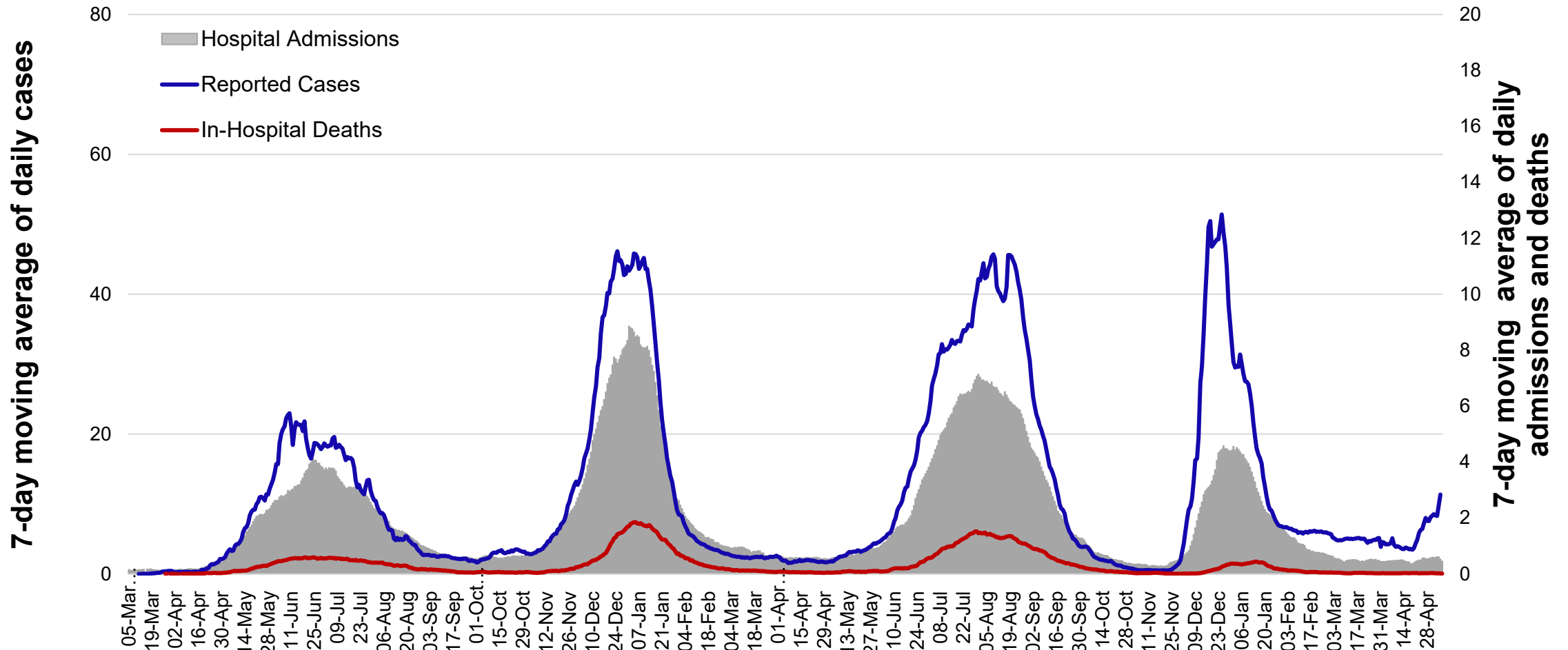
7-day moving average cases per 100,000 population up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Western Cape

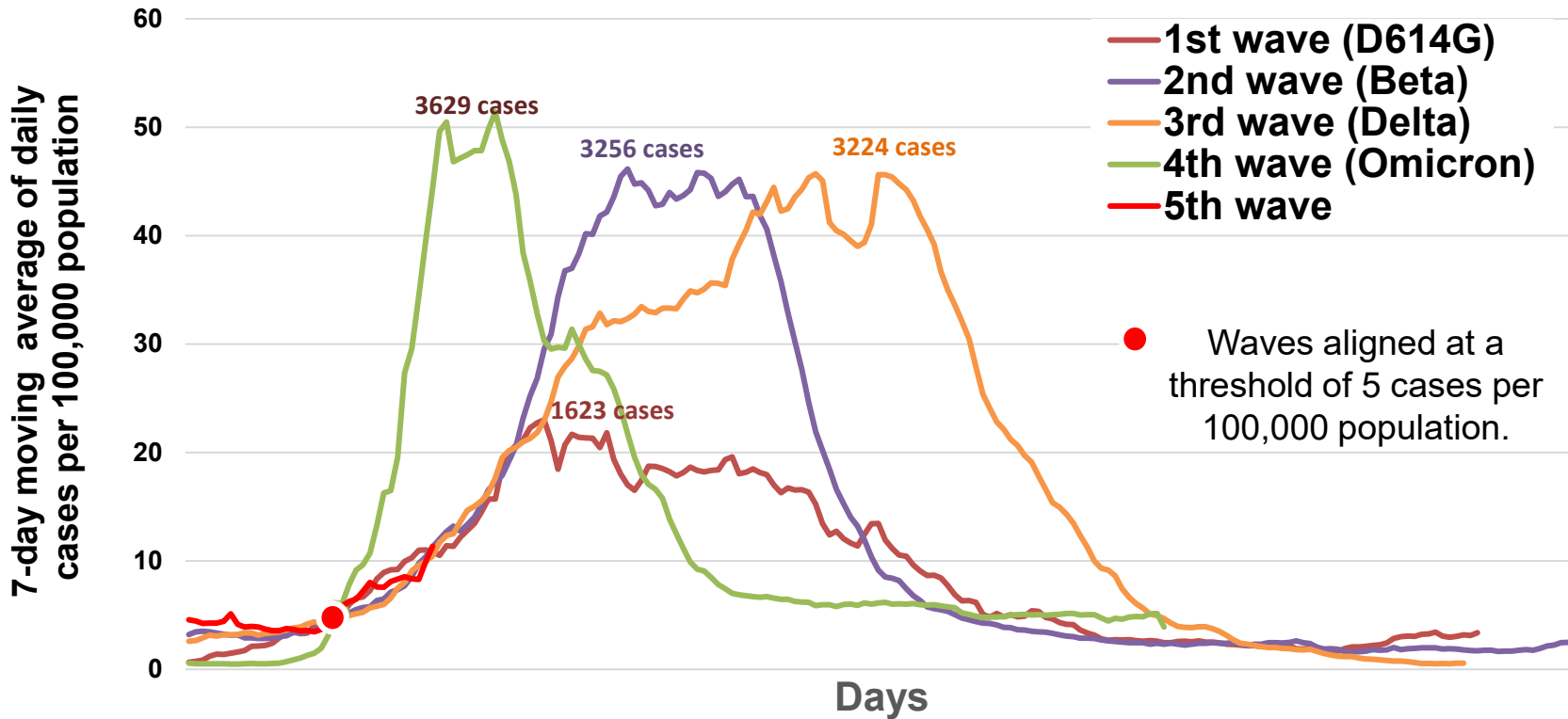
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Western Cape

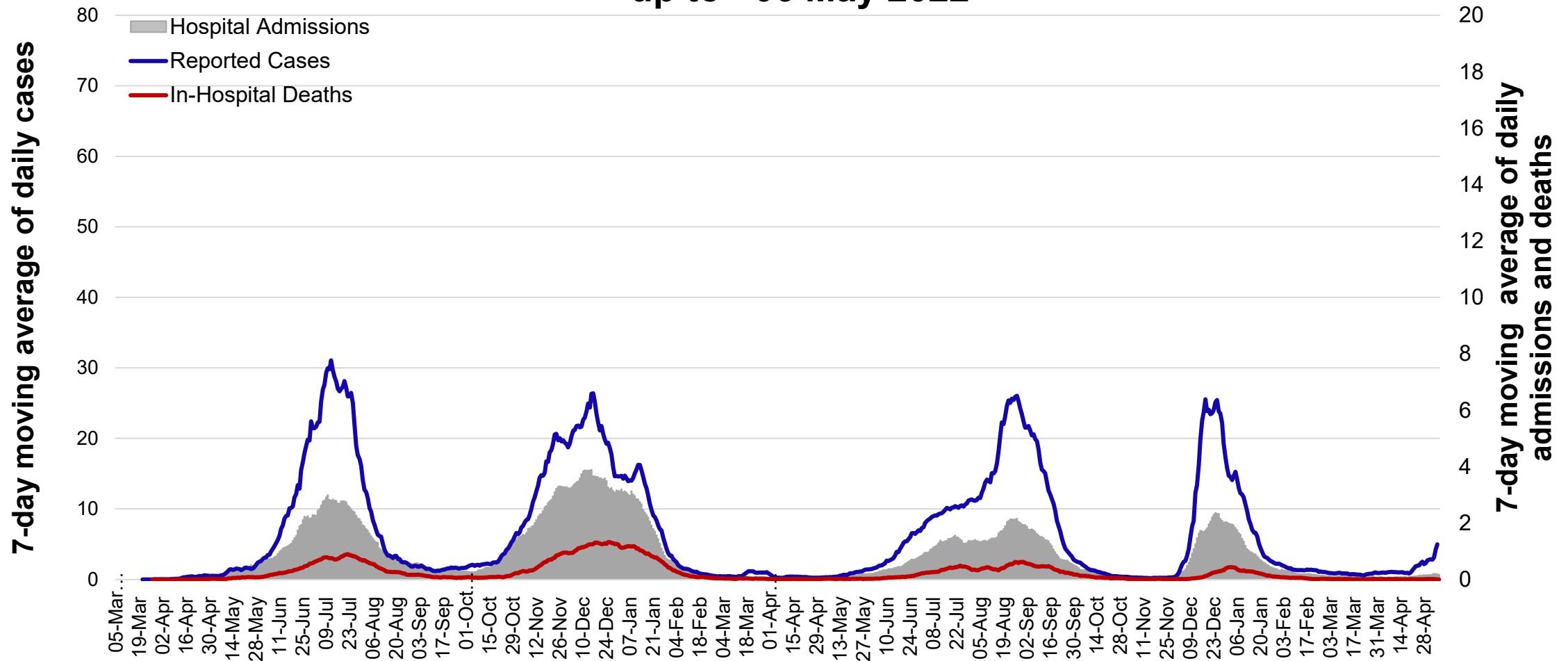
7-day moving average cases per 100,000 population
up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Eastern Cape

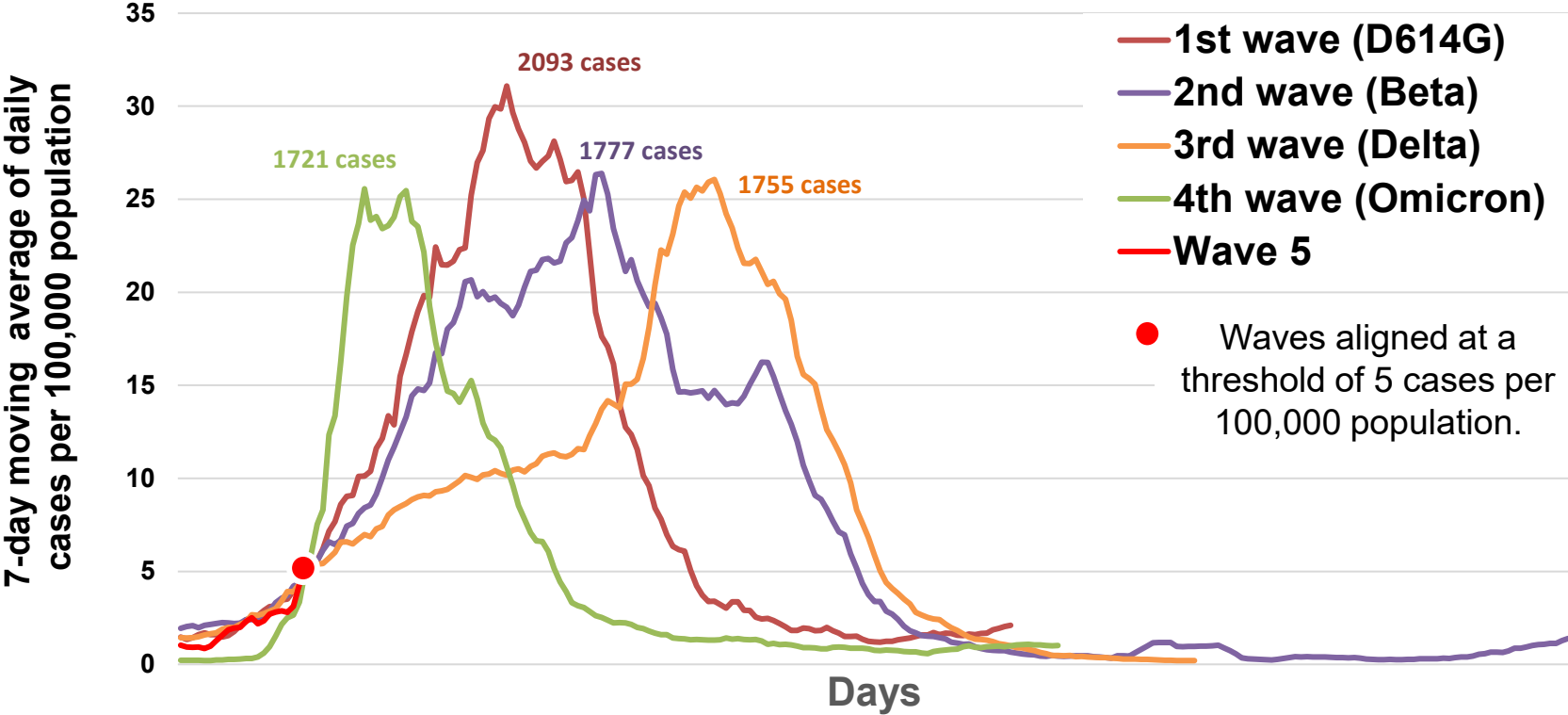
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Eastern Cape

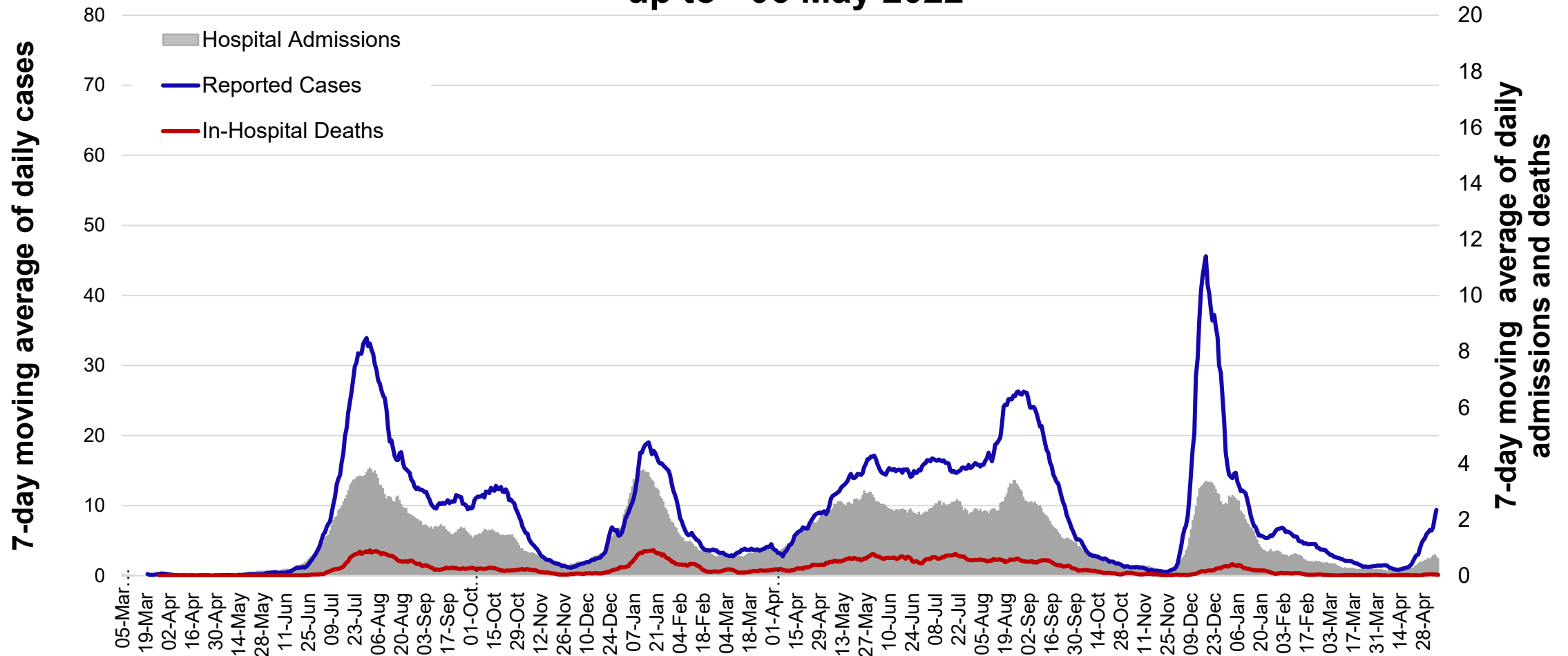
7-day moving average cases per 100,000 population up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Free State province

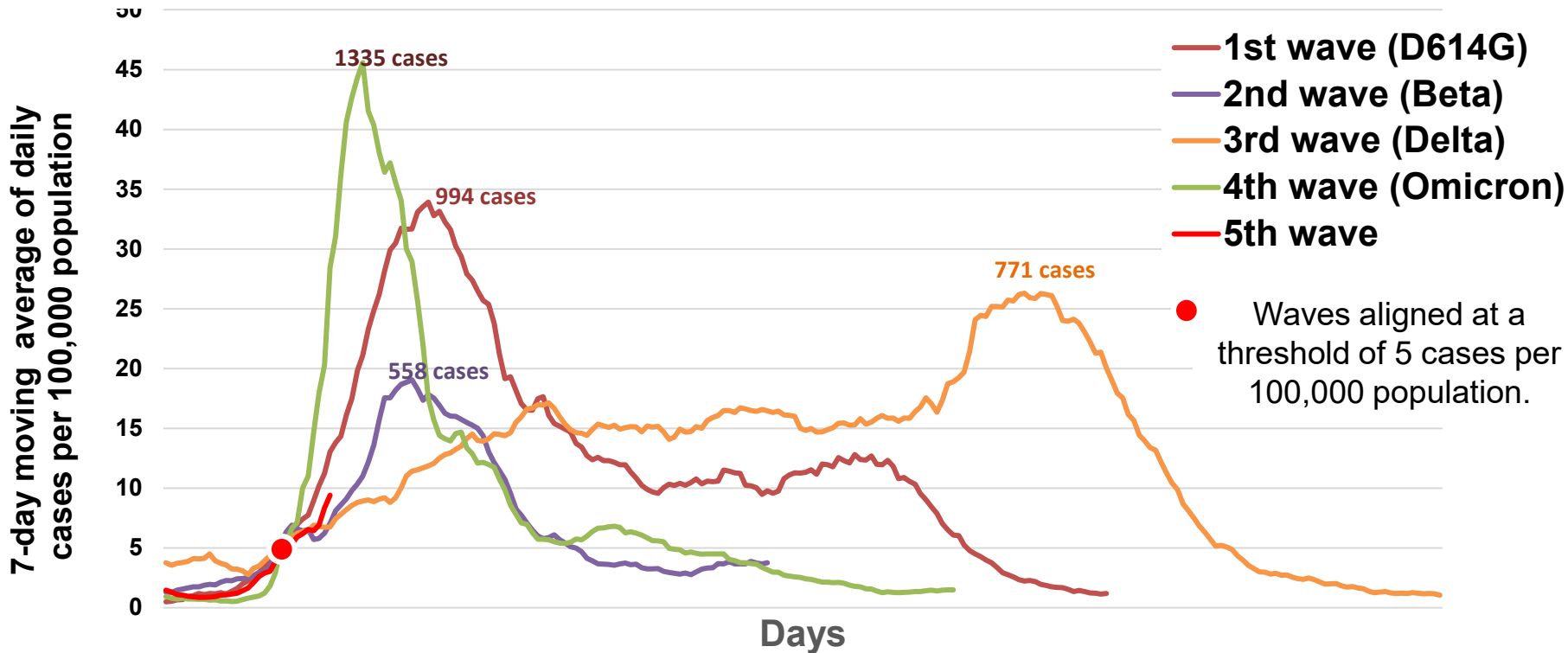
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Free State

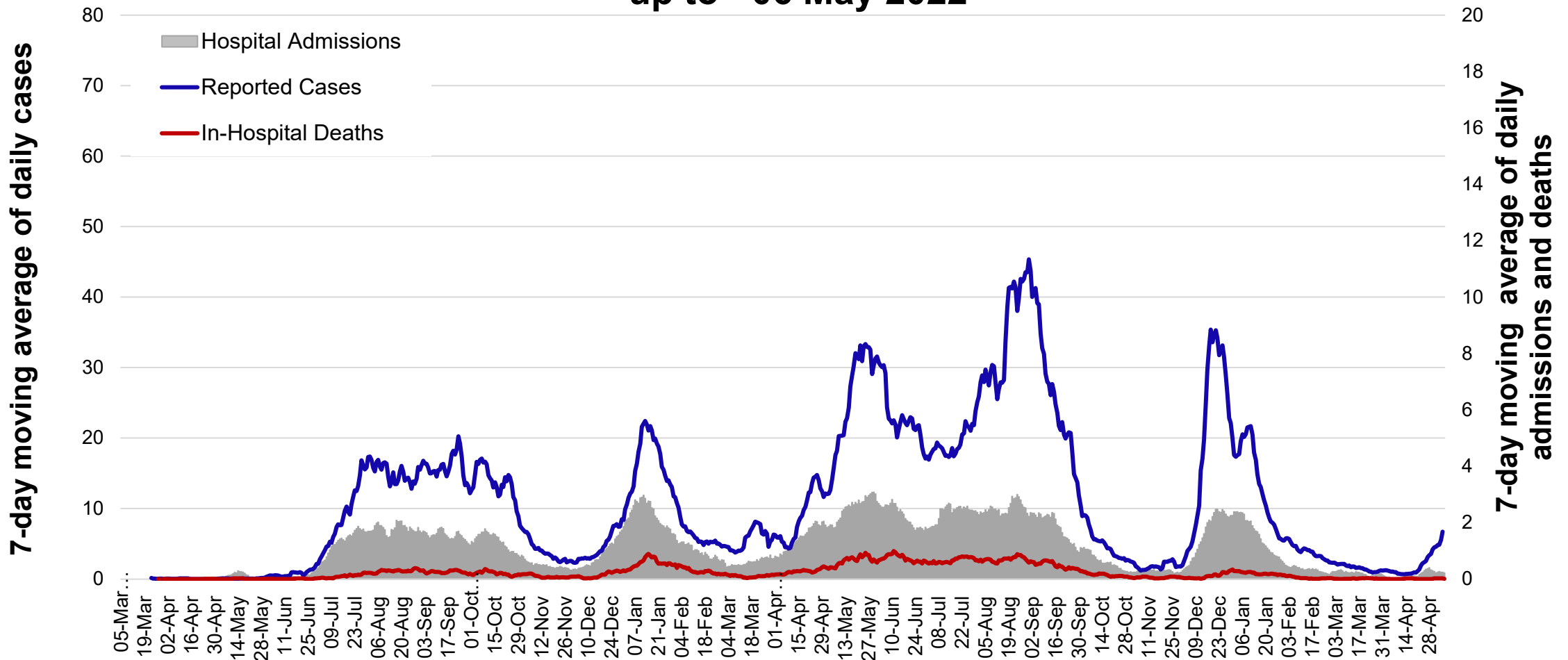
7-day moving average cases per 100,000 population up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Northern Cape

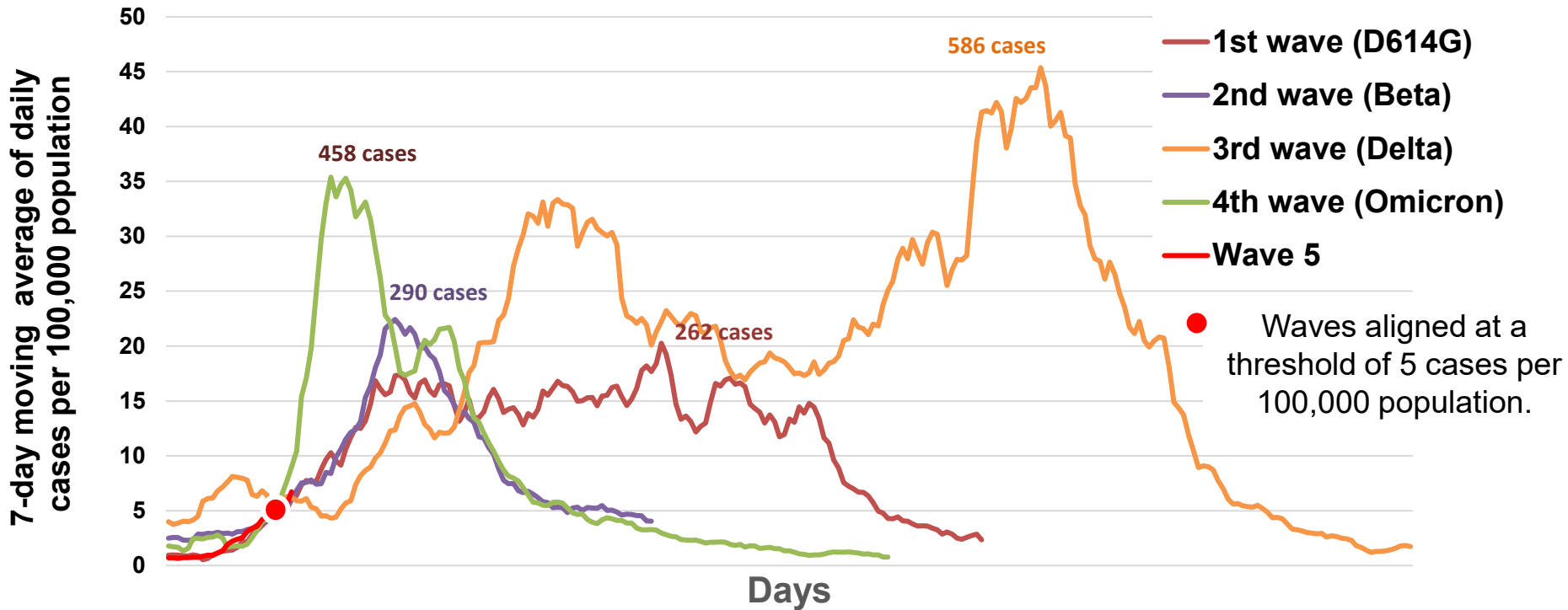
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Northern Cape

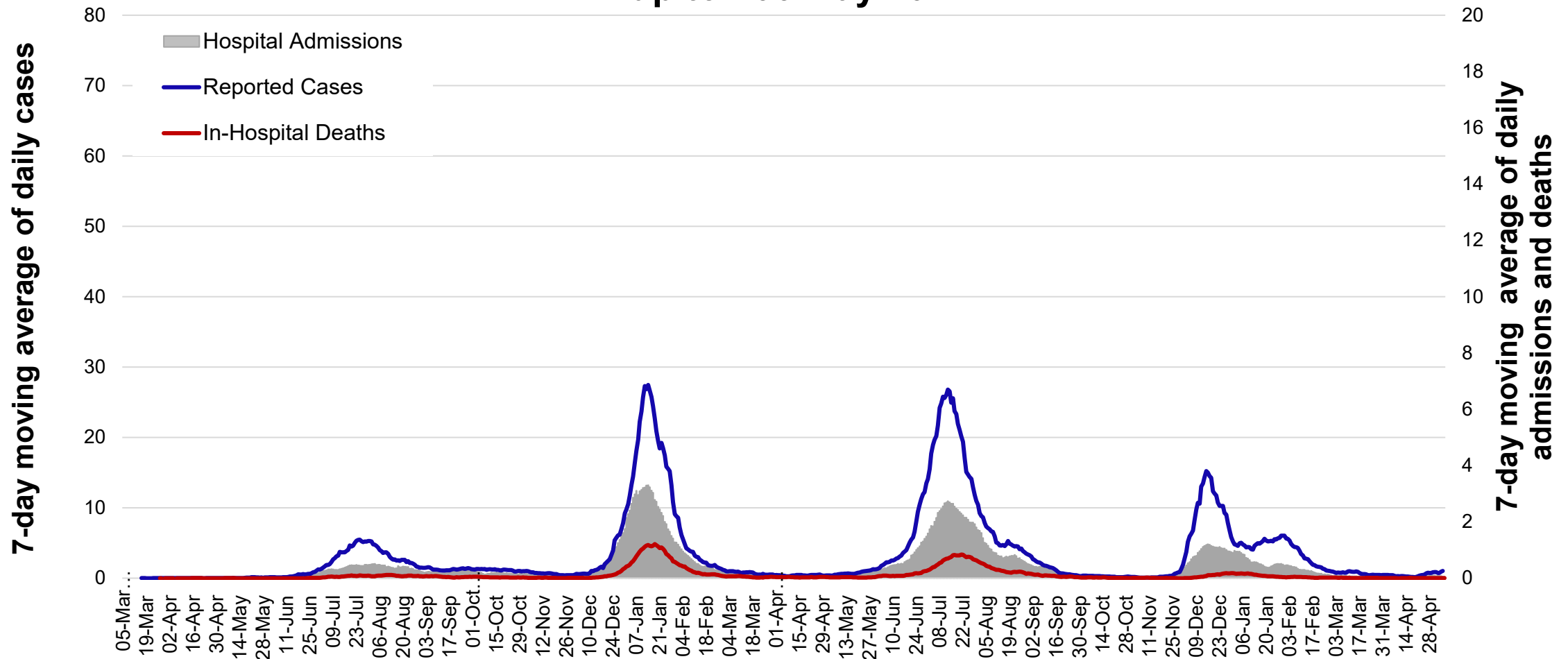
7-day moving average cases per 100,000 population up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Limpopo province

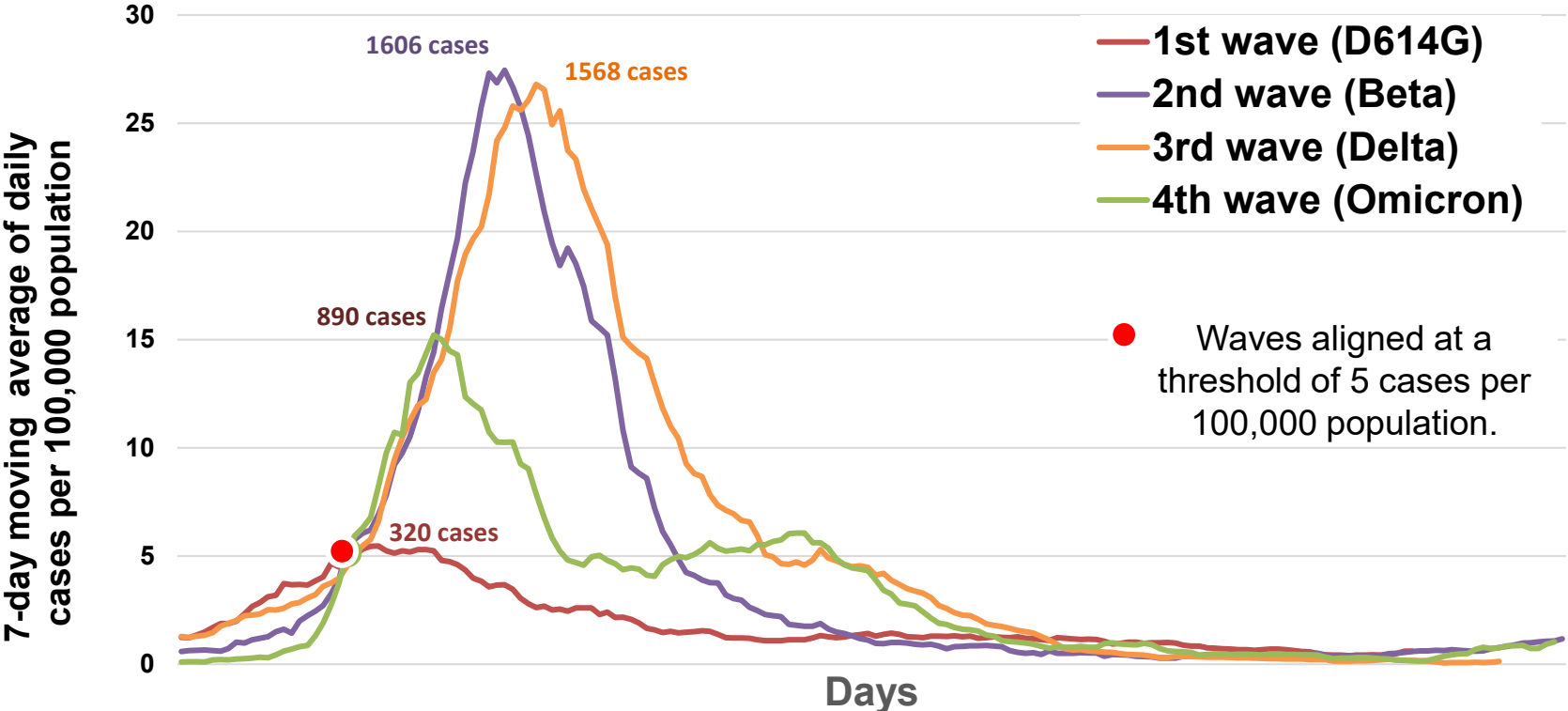
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



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SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Limpopo

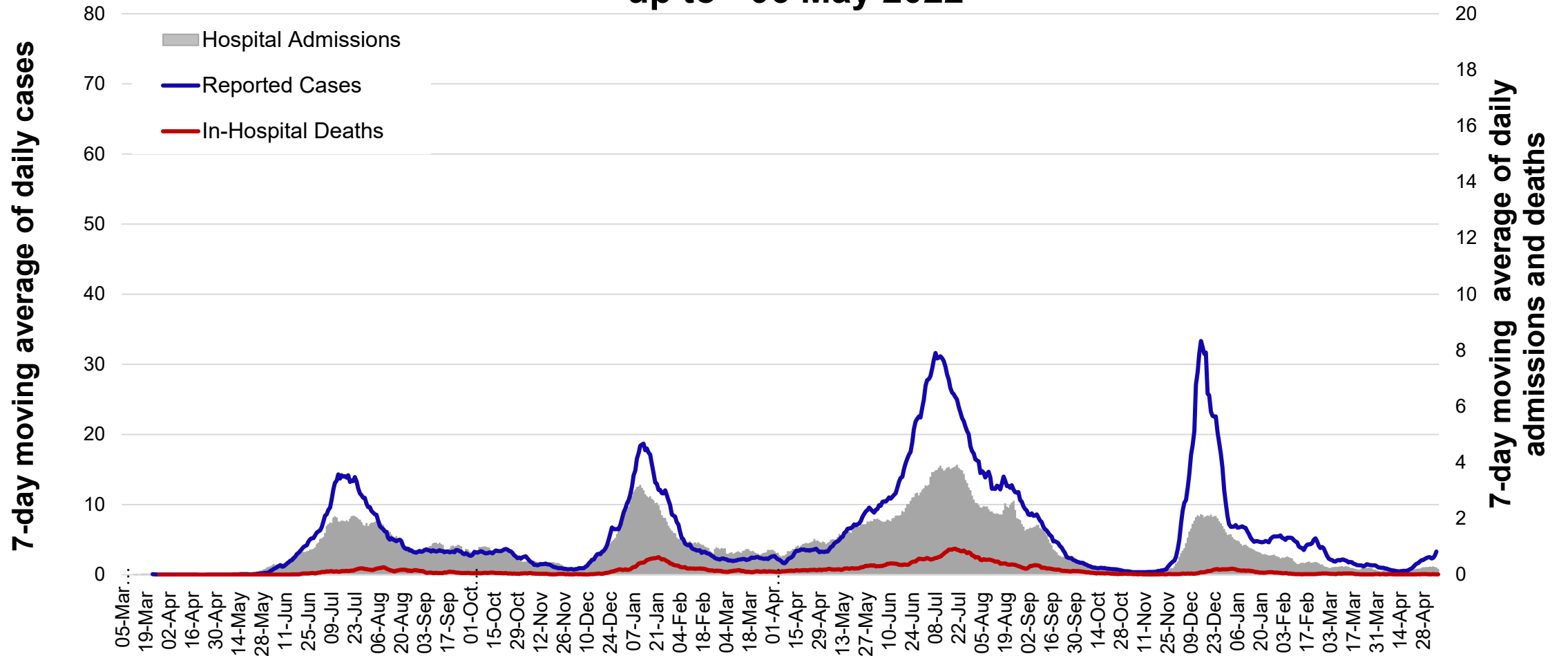
7-day moving average cases per 100,000 population
up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in North West province

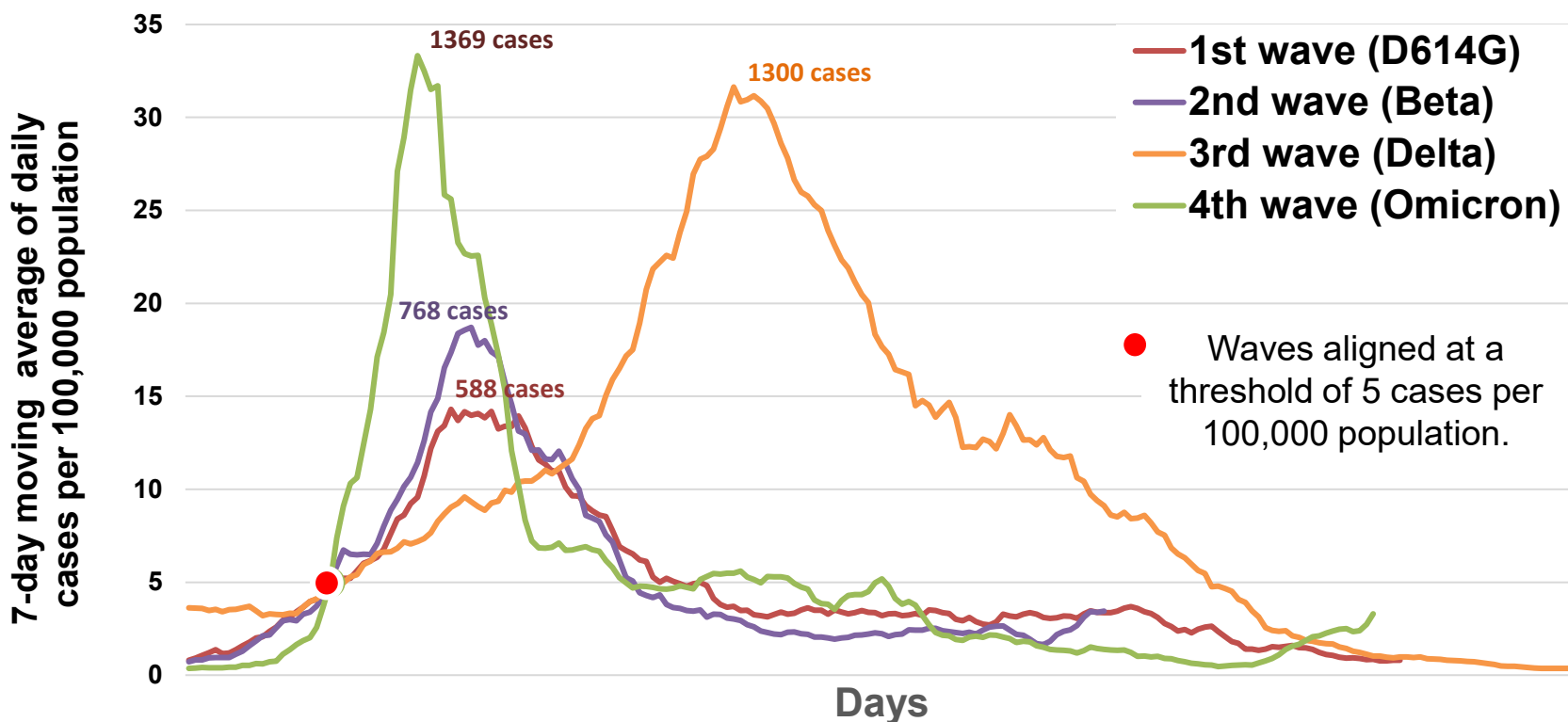
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



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SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: North West

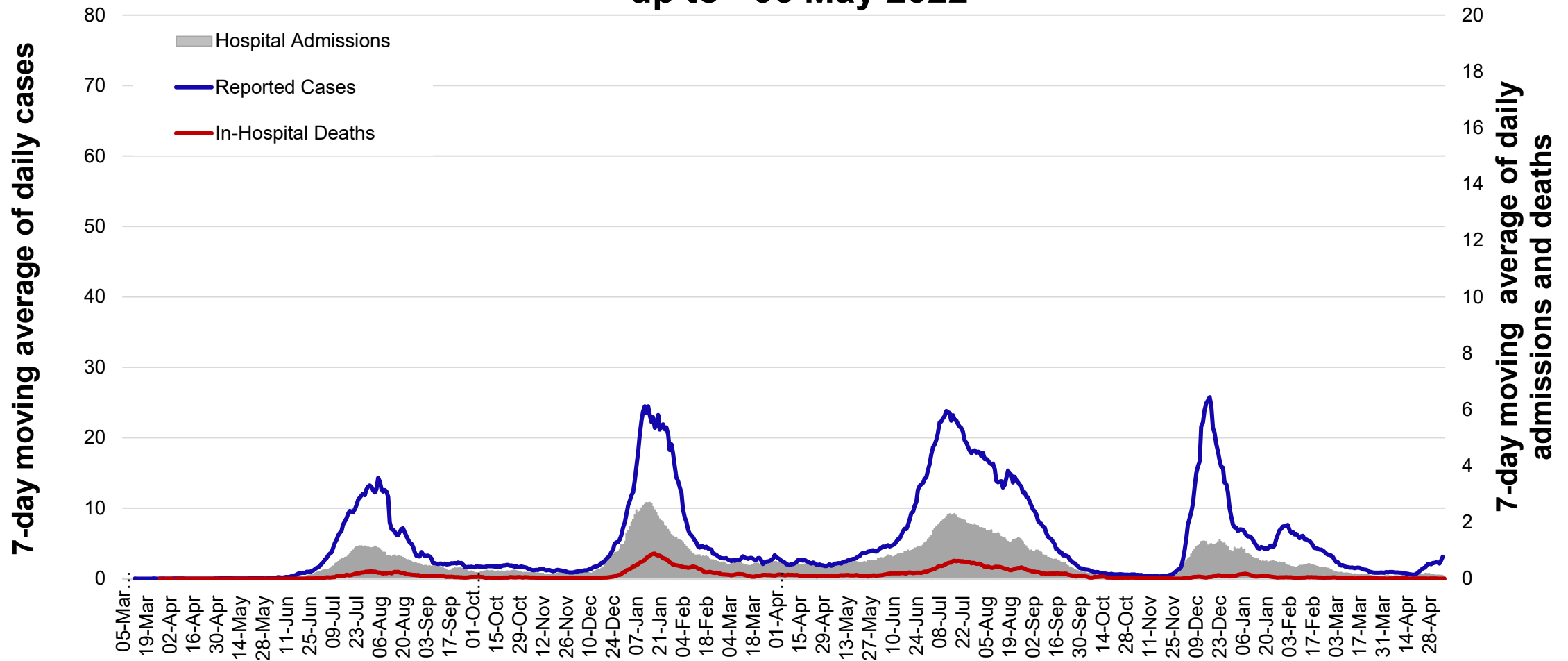
7-day moving average cases per 100,000 population
up to – 06 May 2022



Data source: Department of Health; Analysis: Marothi Letsoalo; Ande Mchunu

SARS-CoV-2 cases in Mpumalanga

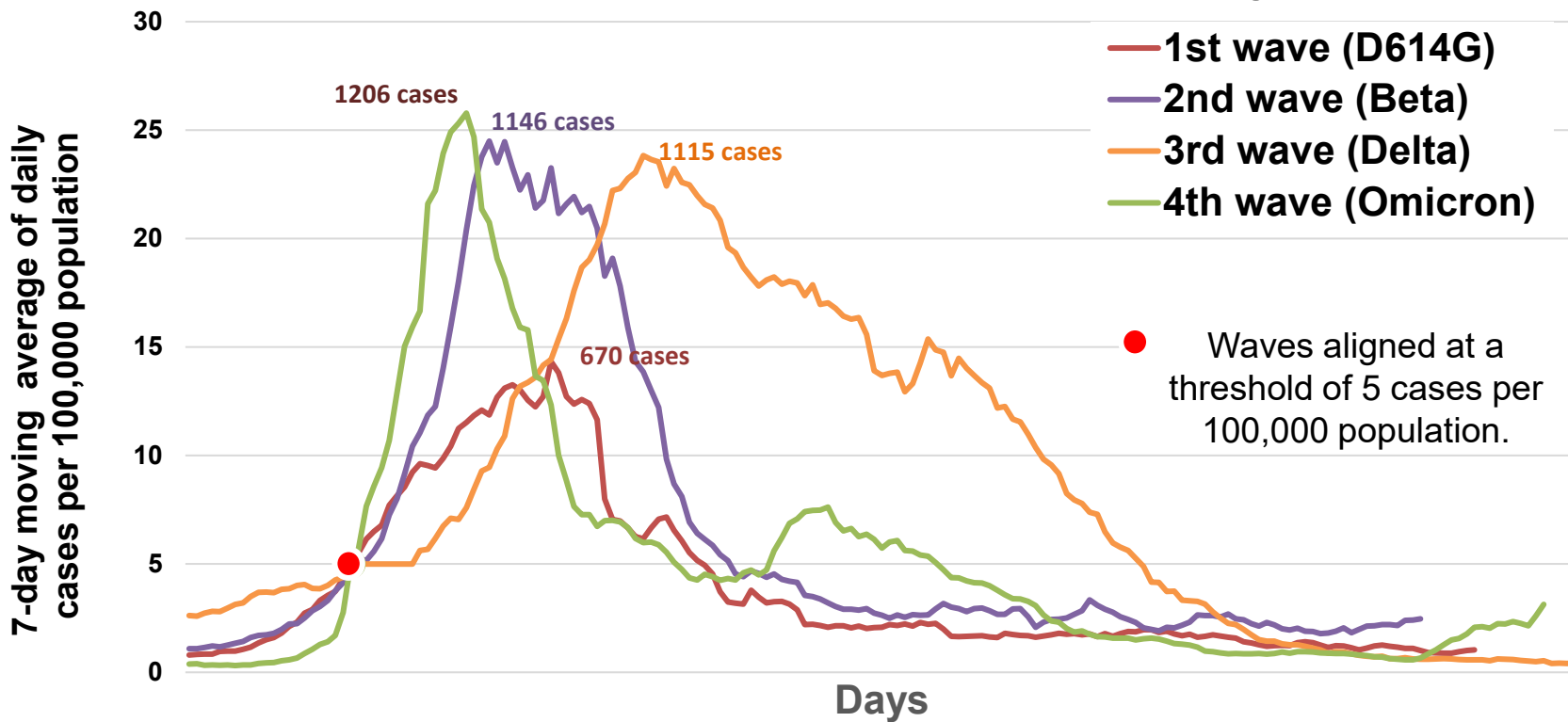
7-day moving average of new cases, hospital admissions and in-hospital Covid-19 deaths up to - 06 May 2022



Source of hospital admissions data: Lucille Blumberg, Richard Welch and Waasila Jassat – DATCOV, NICD

SARS-CoV-2 cases in 1st, 2nd, 3rd, 4th and 5th waves: Mpumalanga

7-day moving average cases per 100,000 population up to – 06 May 2022



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