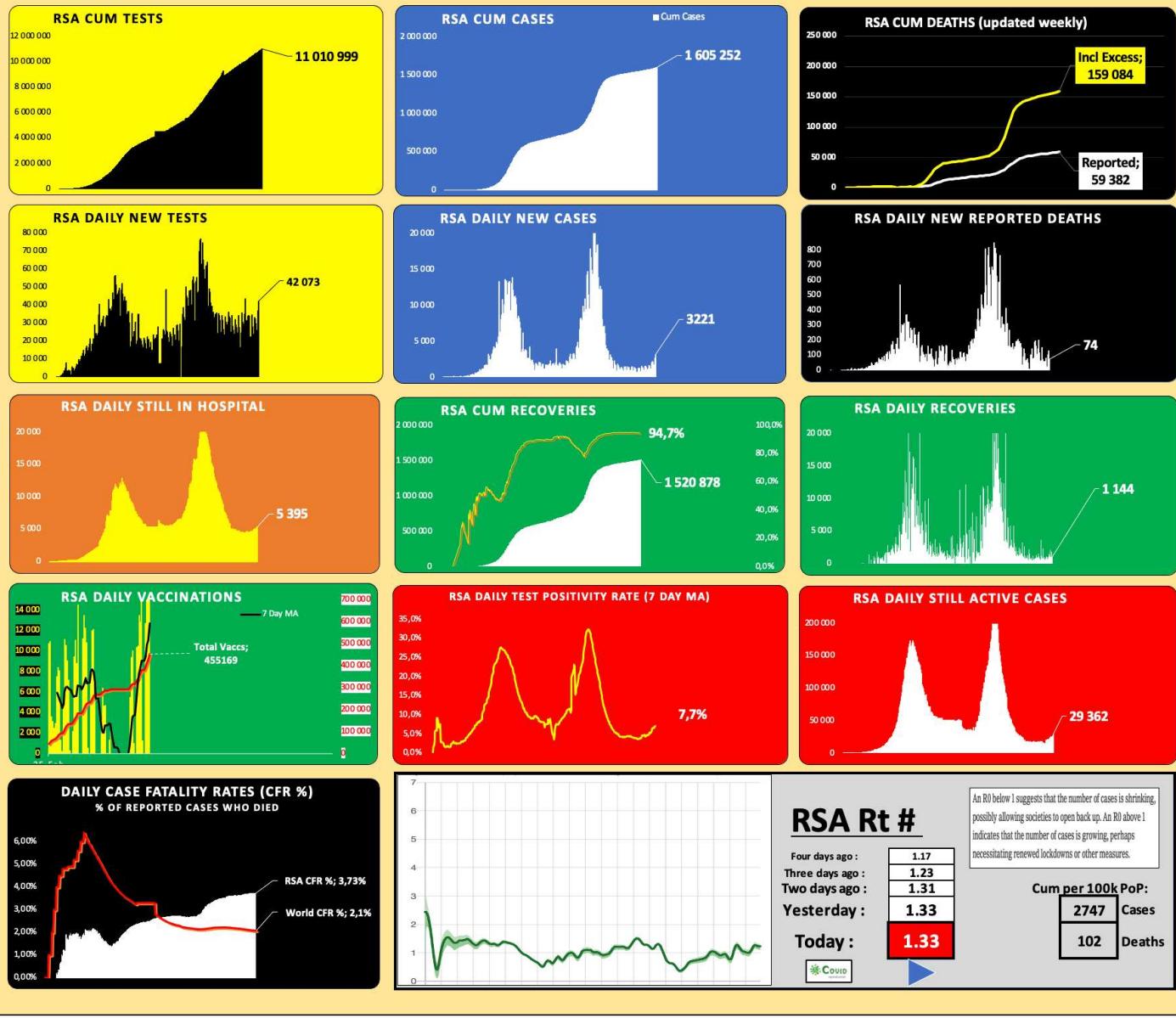


HarryG COVID-19 Dashboard

Page 1

Cum Cases		Daily Cases		RSA COVID-19 DASHBOARD		Daily Still in Hospital	% of Reported Cum Cases who Died (CFR)	Vaccinations:		
Still Active +Cases	Cum Cases p mill PoP	Cum Deaths p mill PoP		13 May 2021		5395	3,73%	Total	Yesterday	Avg
29 362 ▲	26 809	999						455 169	24 439 ▲	5 762 ▲
Deaths Avg	Ages Median	Deaths Min Age	Deaths Max Age					% of RSA PoP who have died to date: Incl Excess		
62,4	57,8	0,2	105					0,10%	0,27%	
Female :		57,8%	52,3%	3,14%	55,8%	Cum Recoveries:		Cum Tests		
Male :		42,2%	47,7%	3,91%	44,2%	1 520 878		Daily Tests		
07-May										



Data as at: 13 May 2021

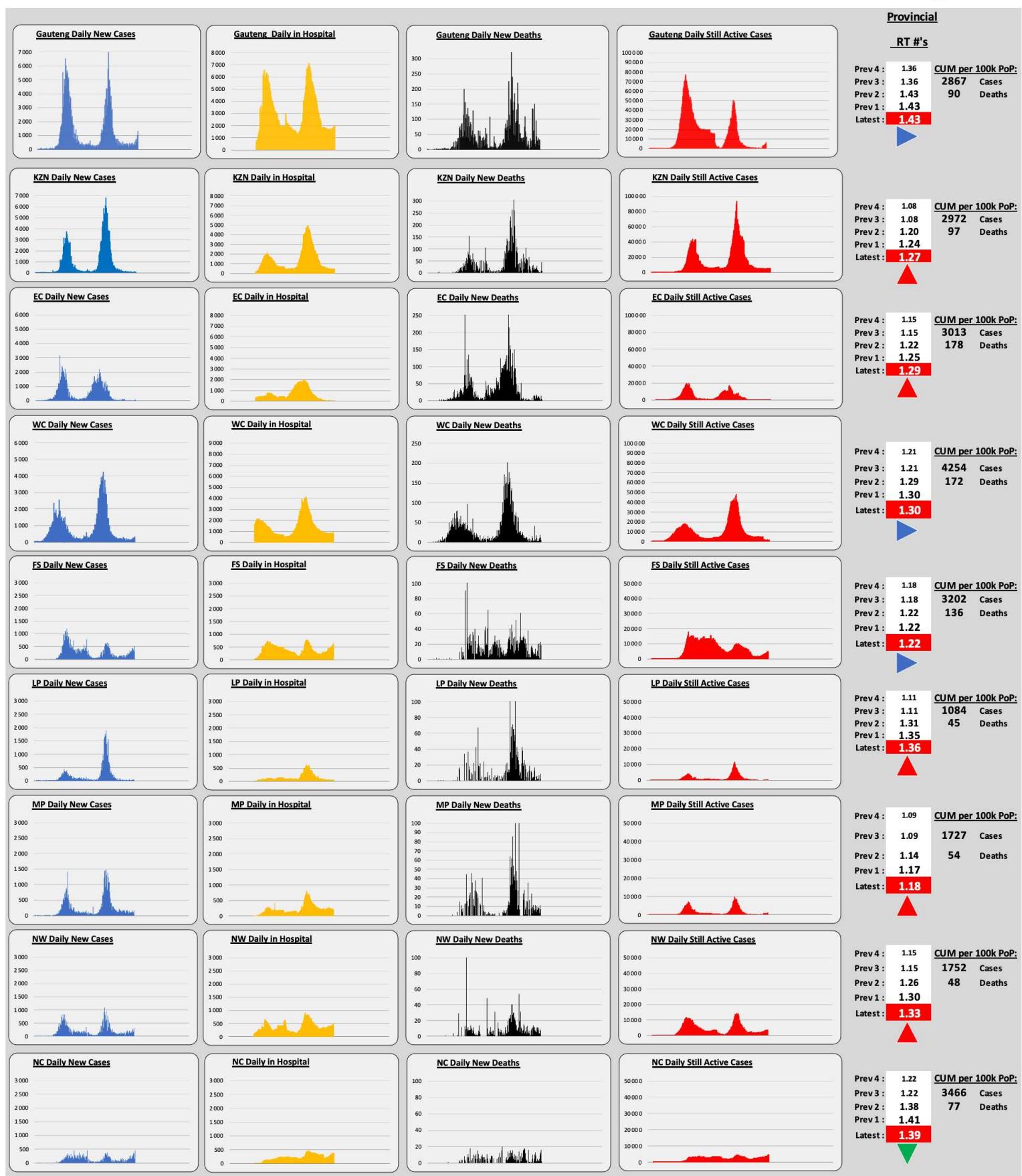
Unless otherwise indicated

hgd

14 May 2021

RSA Provinces detailed daily Data and Trends Jan 2020 to Dec 2021

Page 1.1



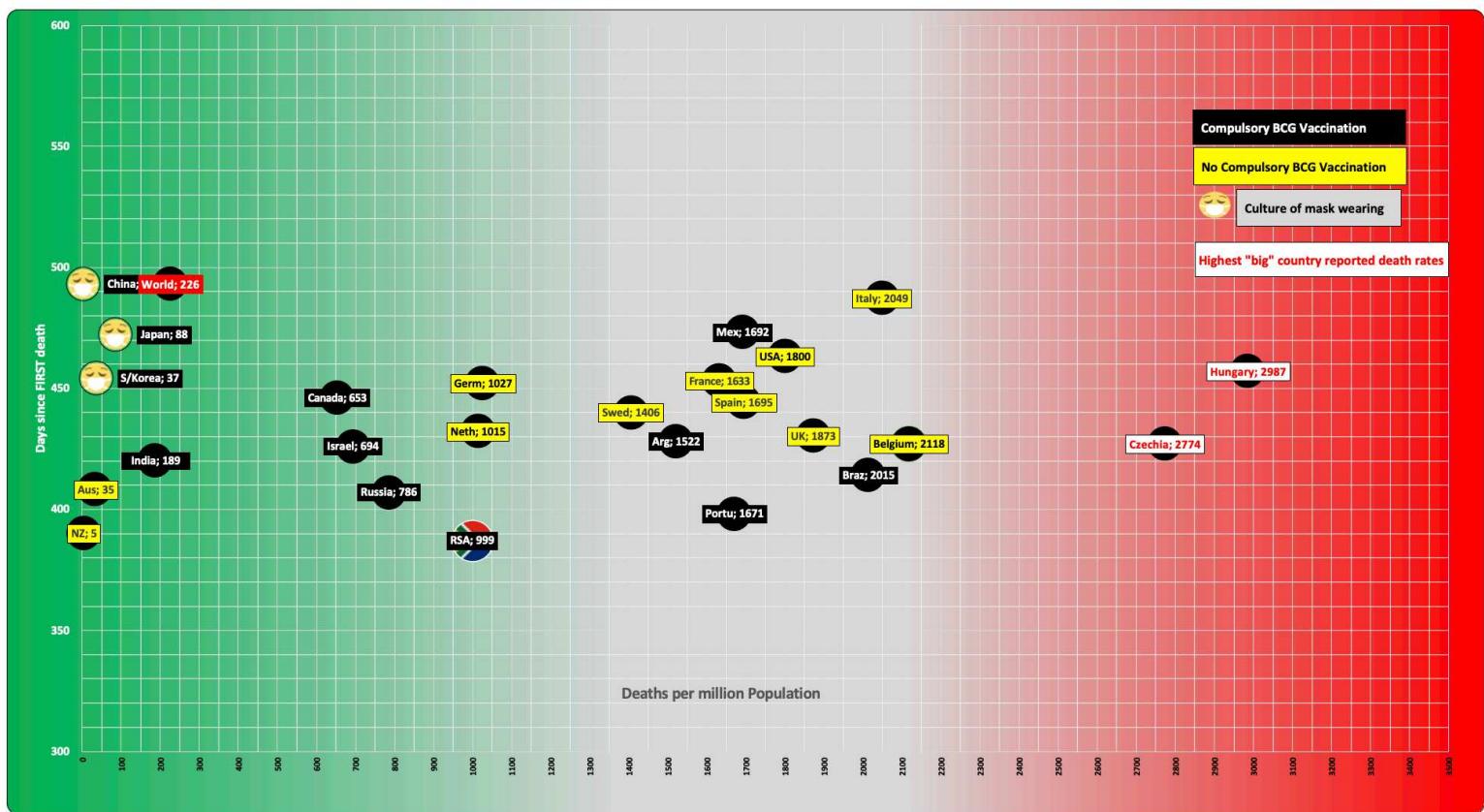
Data as at: 13 May 2021

Unless otherwise indicated

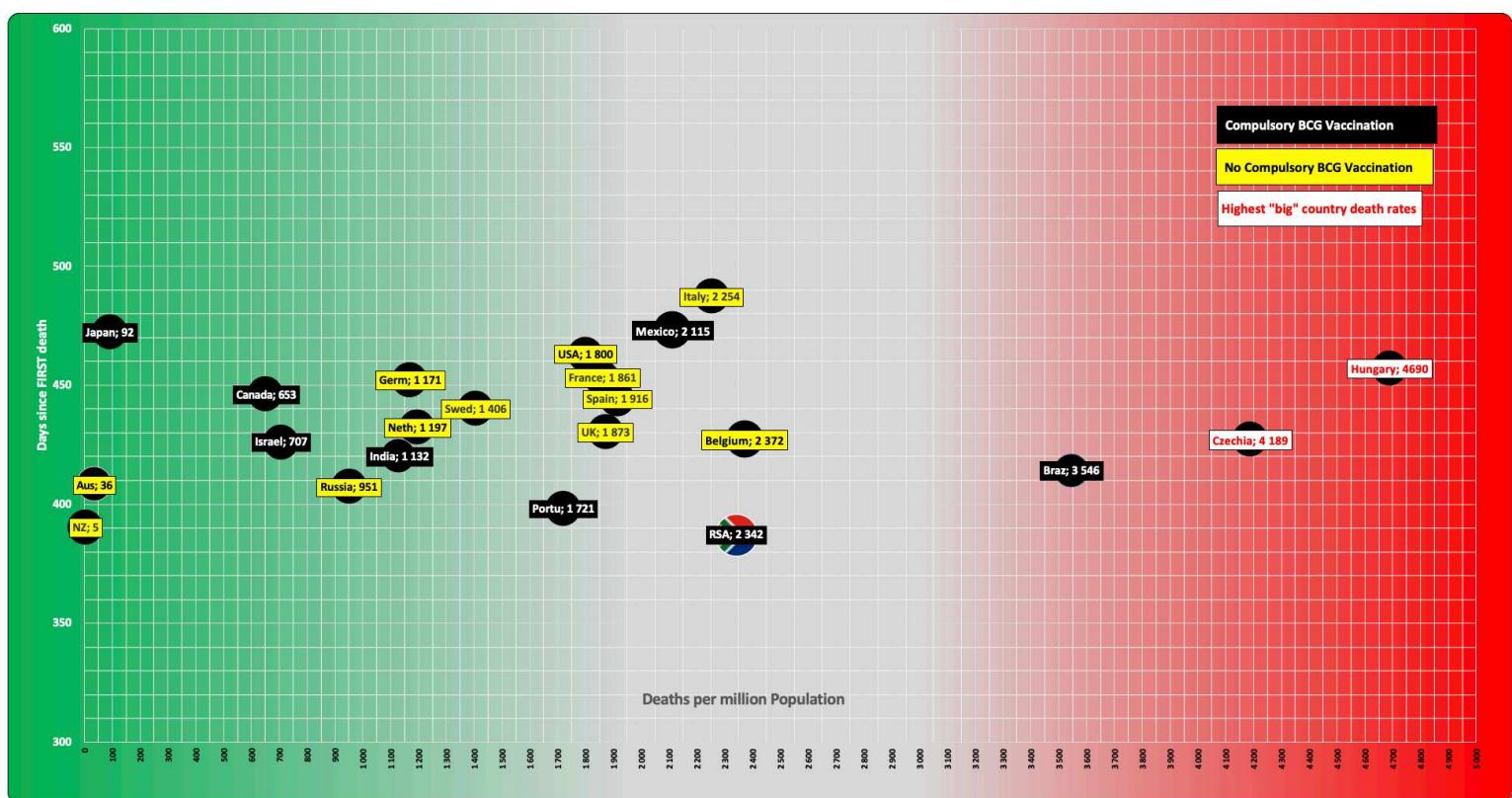
hdg 14 May 2021

Selected Countries' Reported Deaths per mill PoP

Page 2

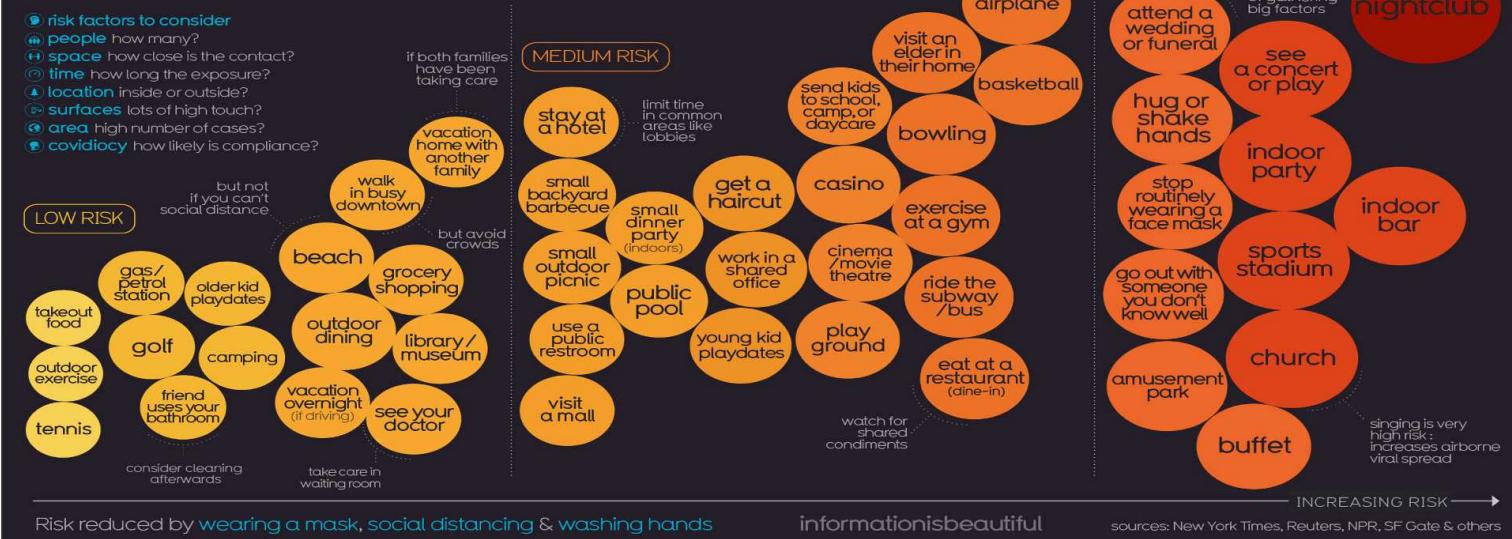


Selected Countries' Deaths incl Excess Deaths per mill PoP (where data available)



Coronavirus Riskiest Activities

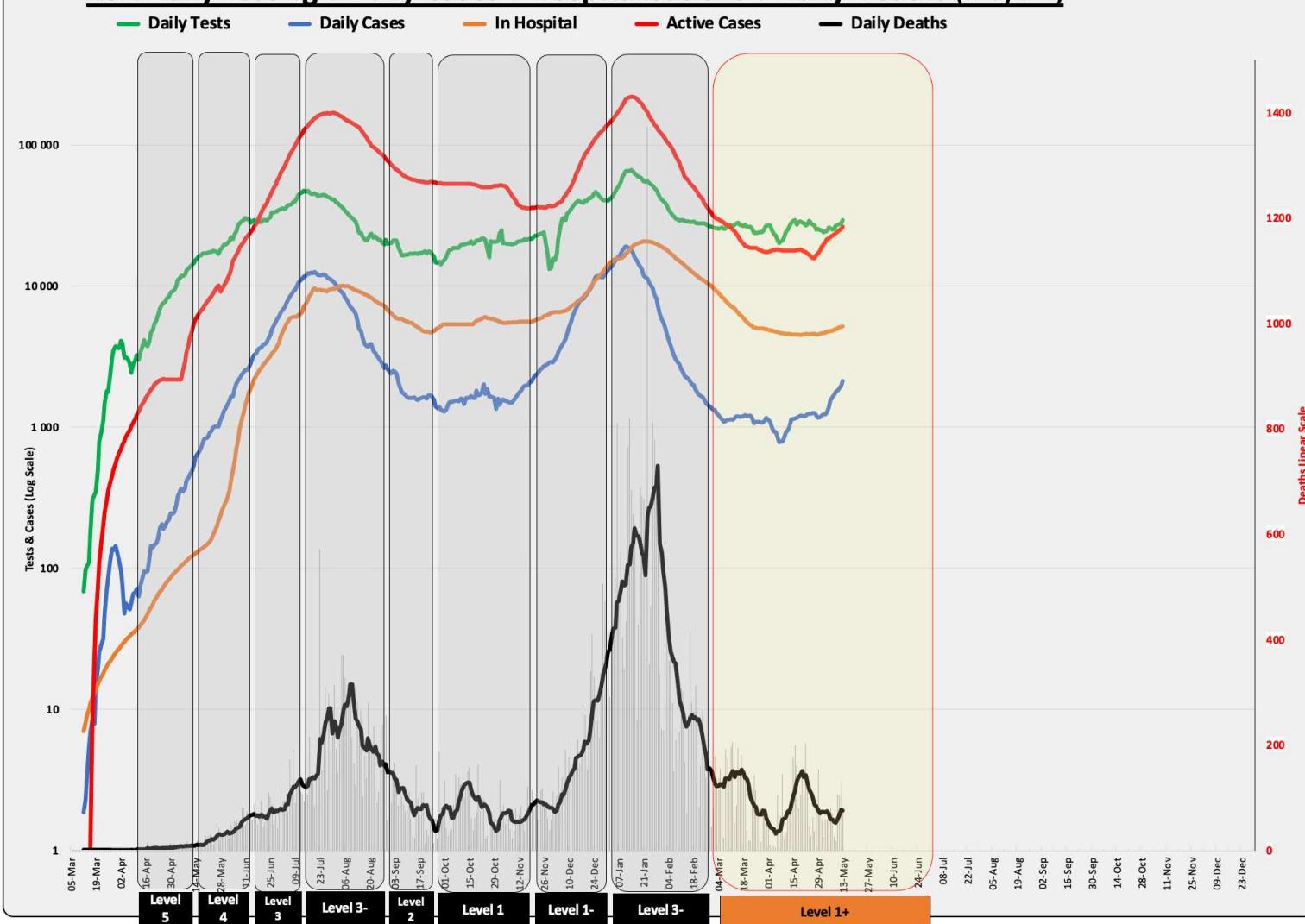
According to 500+ epidemiologists & health professionals



informationisbeautiful

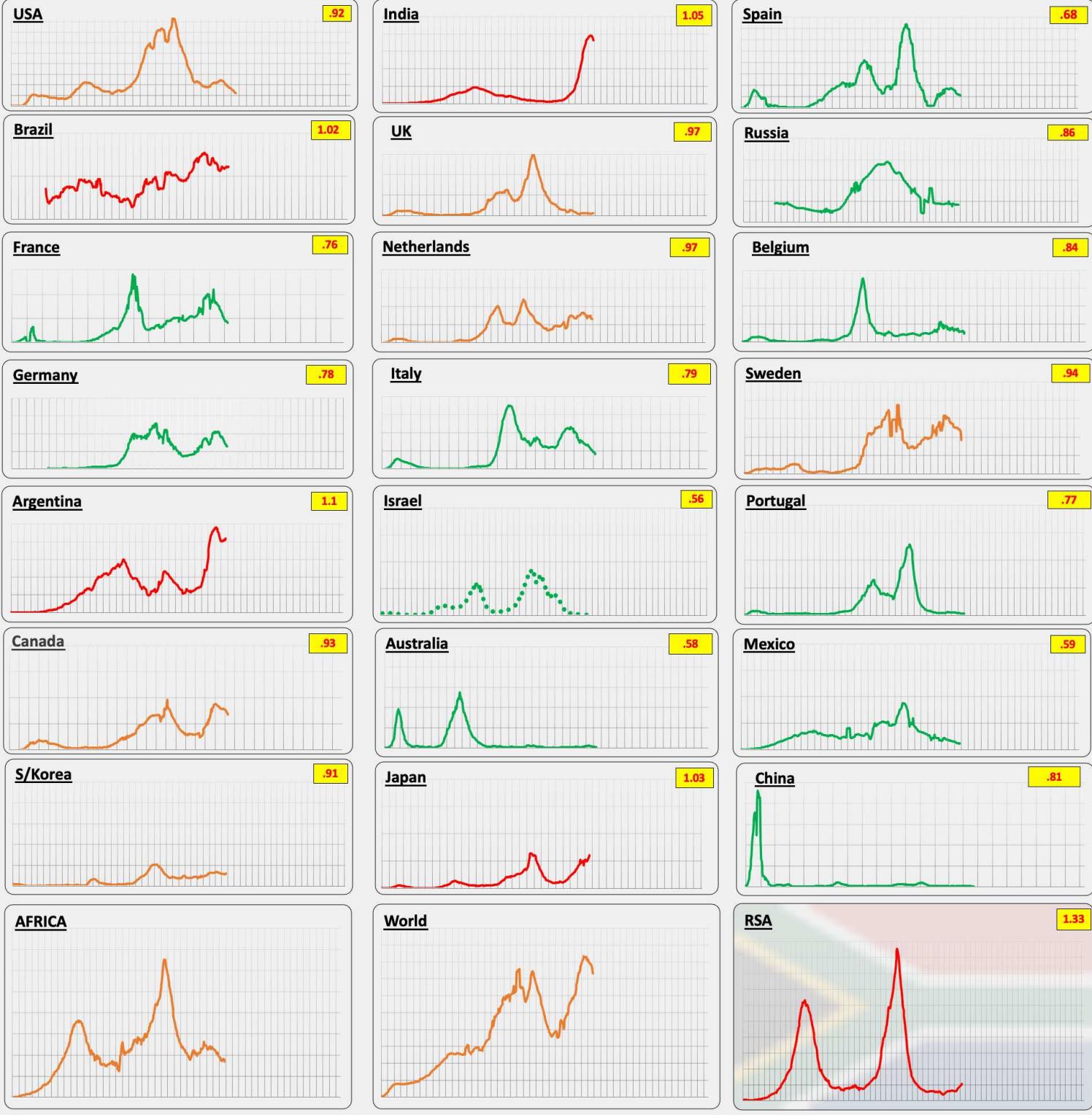
Sources: New York Times, Reuters, NPR, SF Gate & others

RSA Daily Testing v Daily Cases v Hospitalisations v Daily Deaths (7Day MA)



World Daily Reported New Cases 7 Day MA

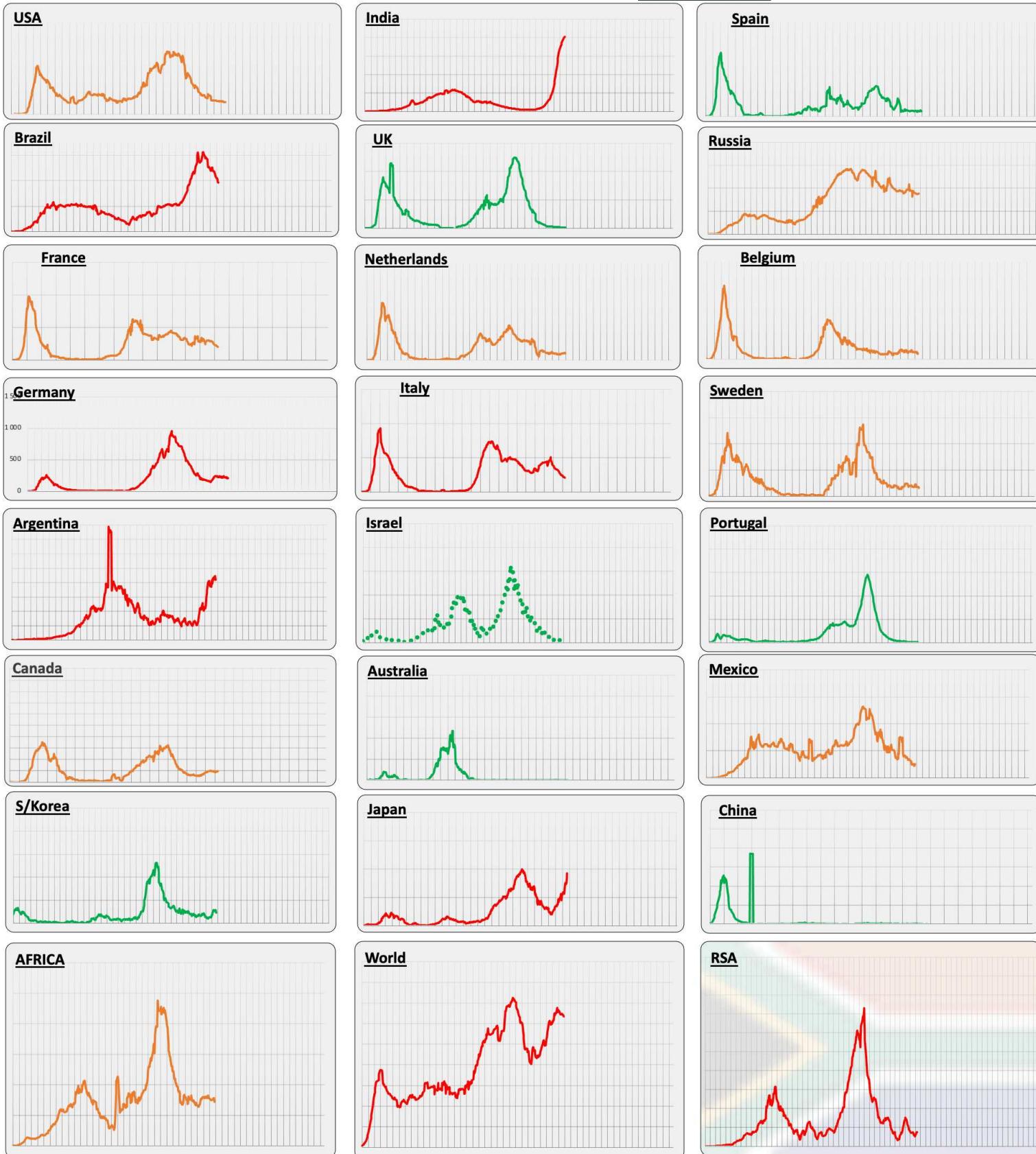
7 Day MA Rising with Rt > 1
 7 Day MA Stable with Rt < 1
 7 Day MA Declining with Rt < 0.9
 Latest Rt #'s 



World Daily Reported Deaths 7 Day MA

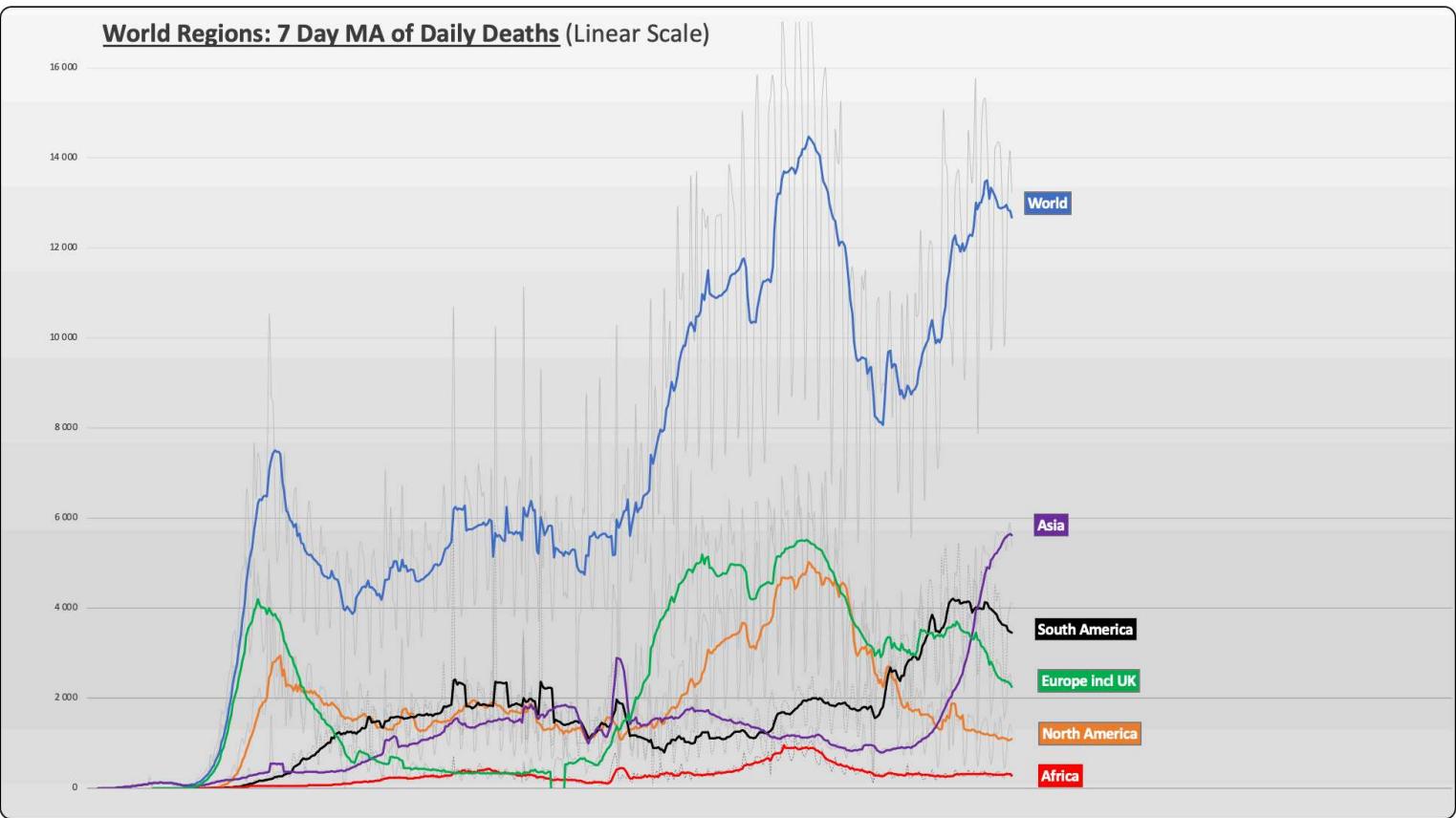
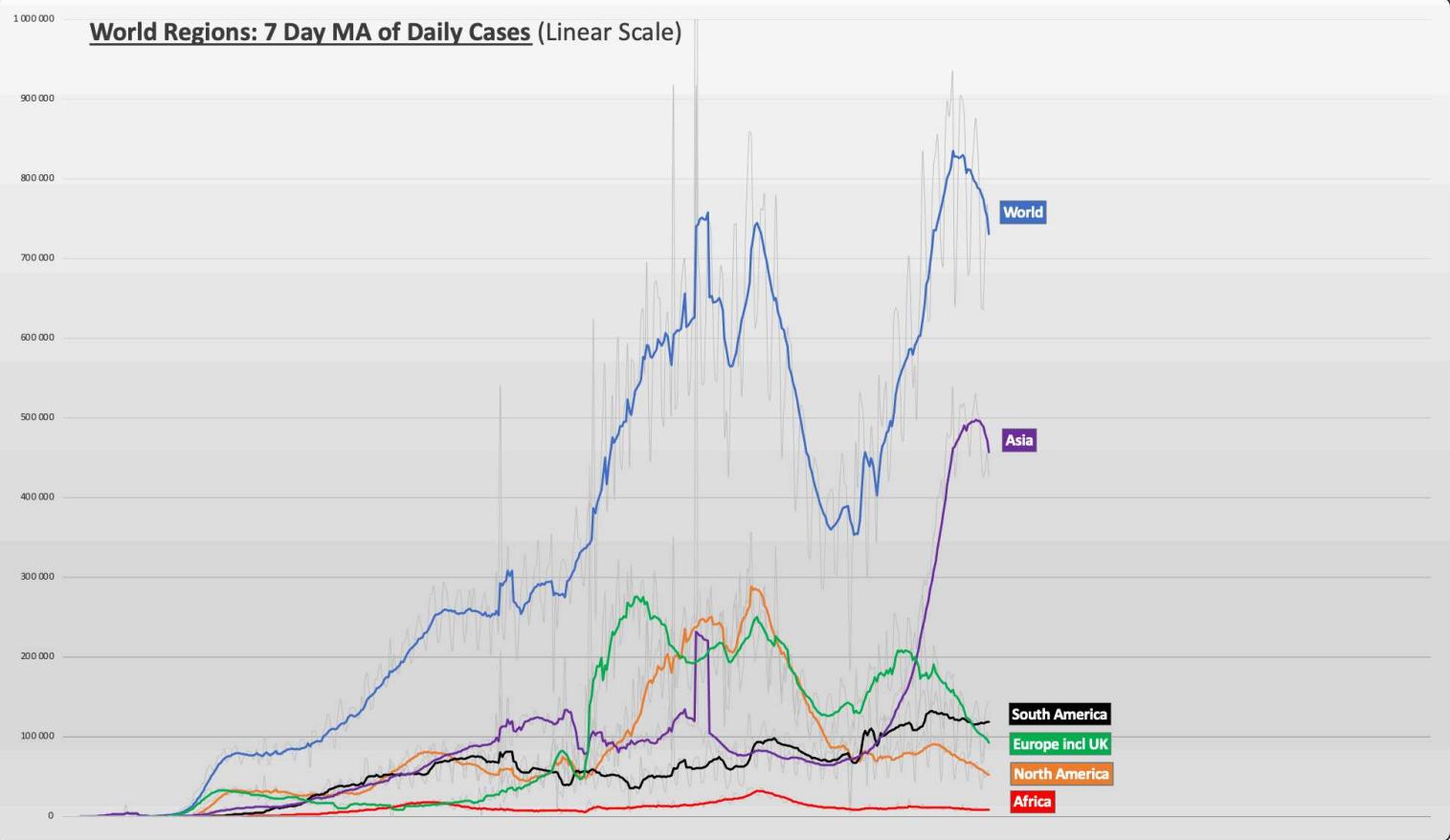
Page 2.3

7 Day MA Rising
7 Day MA Declining but still high
7 Day MA Low and stable



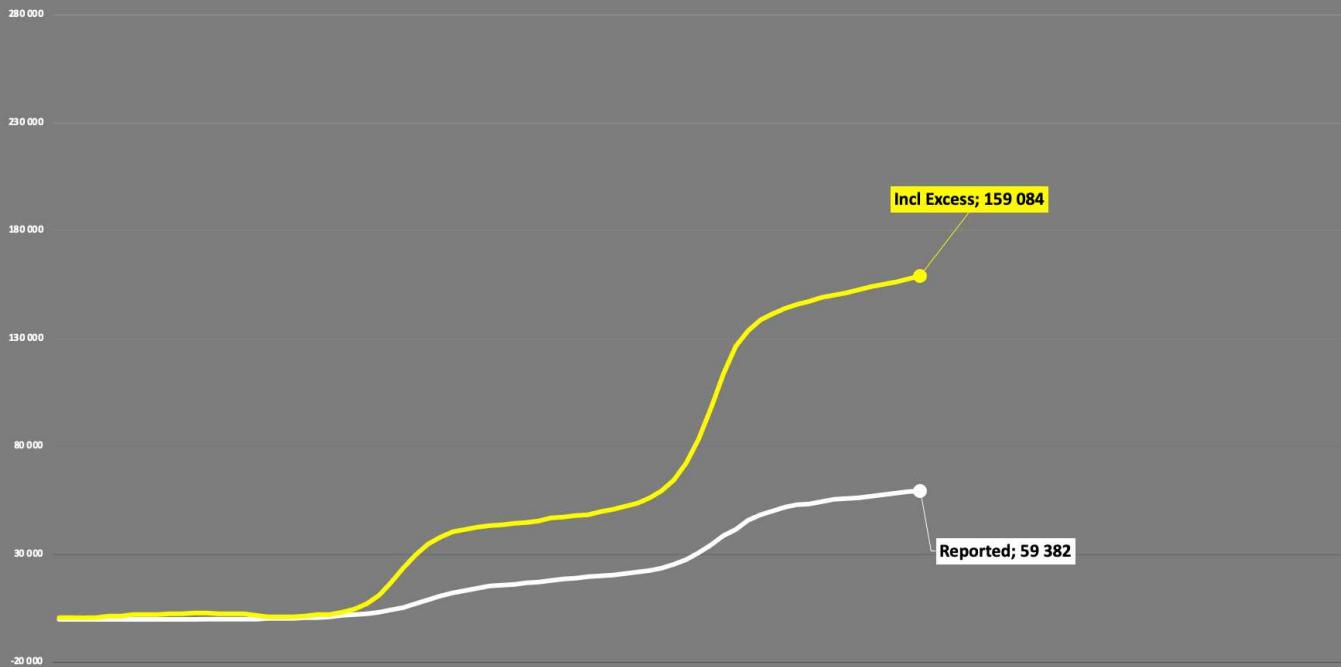
7 Day Moving Average of Daily Reported Deaths & Cases by World Region

Page 3.0

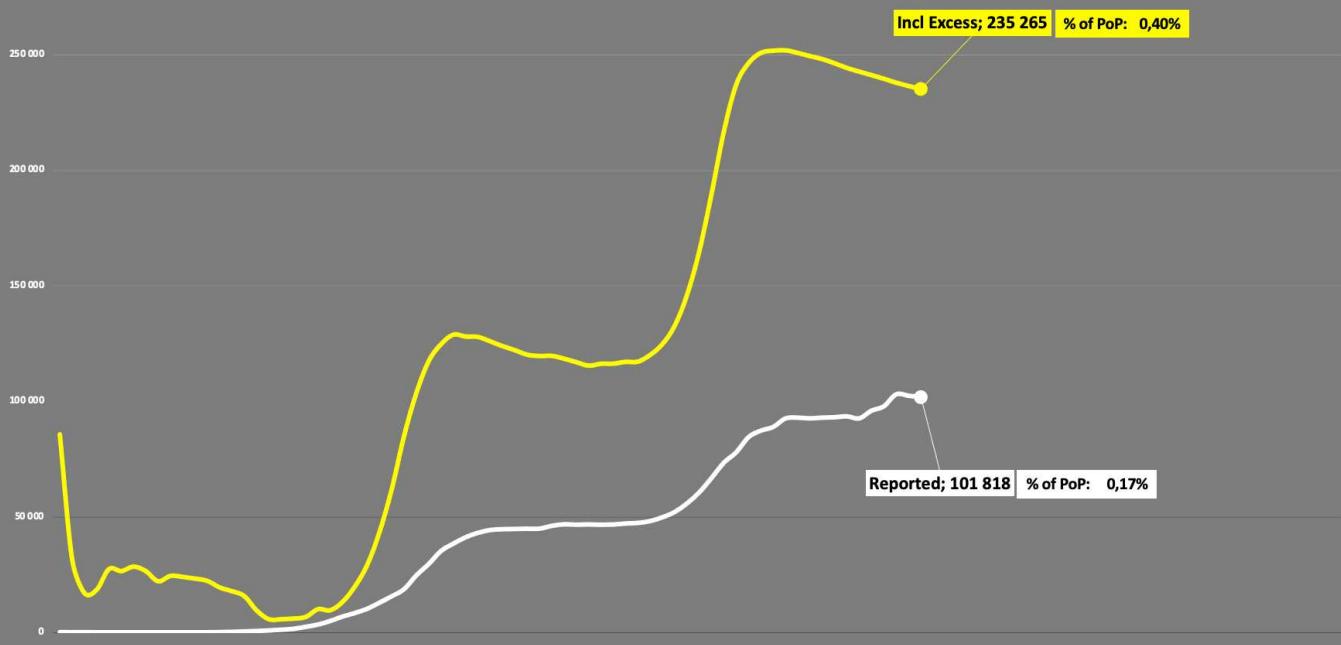


RSA CUM DEATHS (updated weekly)

Assuming 80% of Excess Deaths are Covid related.

**RSA CUM DEATHS PROJECTED TO end 2021 (updated weekly)**

Assuming 80% of Excess Deaths are Covid related.

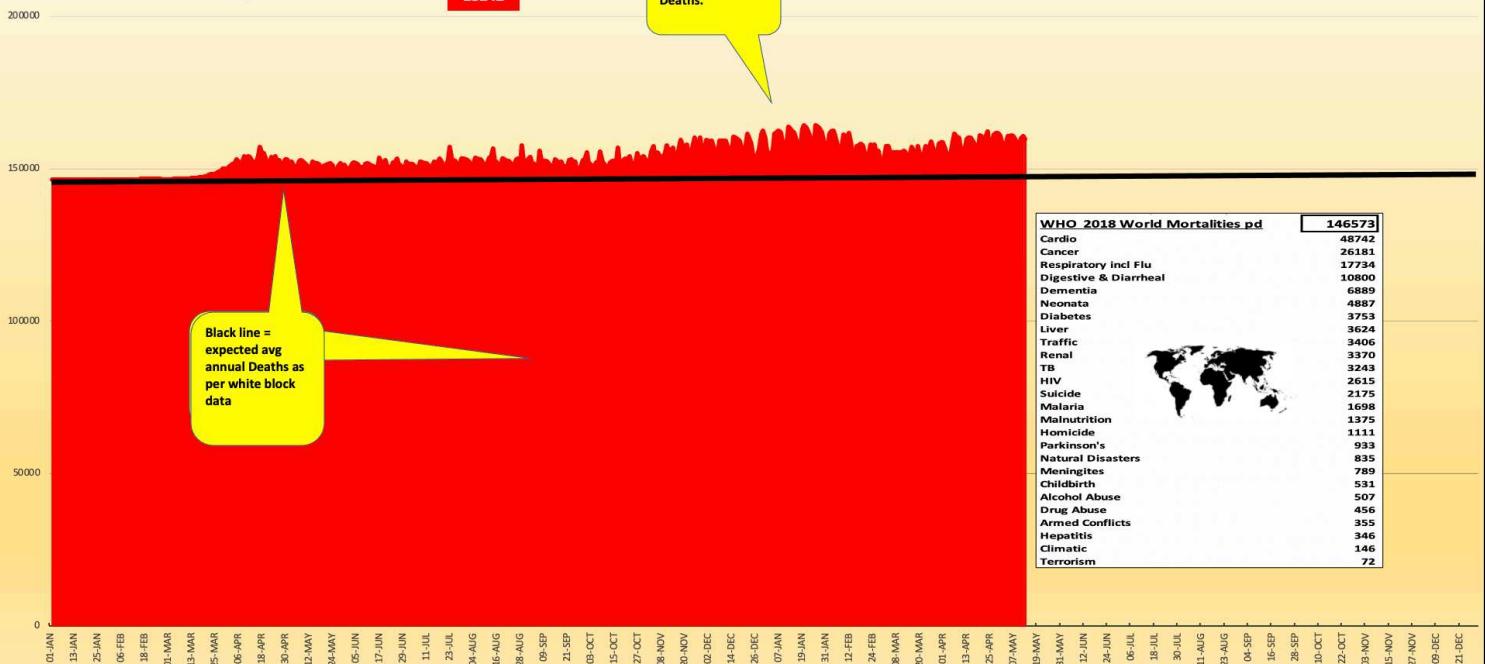


Avg "normal" DAILY WORLD Mortalities v COVID Reported Daily Deaths

(Linear Scales)

Avg Daily Covid Deaths 2020 to date: **6882**
 Highest Daily Covid Deaths 2020 to date: **17654**
 Latest Daily Covid Deaths 2020 to date: **13242**

Red line =
Reported Covid
Deaths.



The two graphs WORLD (above) and RSA (below) attempt to put the number of Covid Deaths into some sort of perspective graphically.

The big RED blocks below the black lines are TOTAL Daily Avg Deaths from ALL causes.

The RED area/lines on top of the red blocks are the INCREMENTAL Actual Daily Deaths due to Covid as officially reported.

The BLUE line in the bottom RSA graph shows the SAMRC Excess Deaths weekly numbers.

Avg "normal" DAILY RSA Mortalities v COVID Daily Deaths (Linear Scales)

Avg Daily Covid Deaths since 1st Death 2020 to date: **106**
 Highest Daily Covid Deaths 2020 to date: **1374**
 Latest Daily Covid Deaths 2020 to date: **74**

Weekly Excess
Deaths at
7 May

Blue line =
Weekly Excess
Deaths
(see Pg 5)

Red line =
Reported daily
Covid Deaths.

Black line =
expected avg
daily Deaths as
per white block

	StatsSA 2017 RSA Mortalities per day
Natural Causes	1223
Unnatural Causes	140
Cardio	96
Pneumon. incl Flu	88
TB	79
Diabetes	69
Cancers	61
HIV	59
Hypertensive	55
Other Viral	46

Data as at:

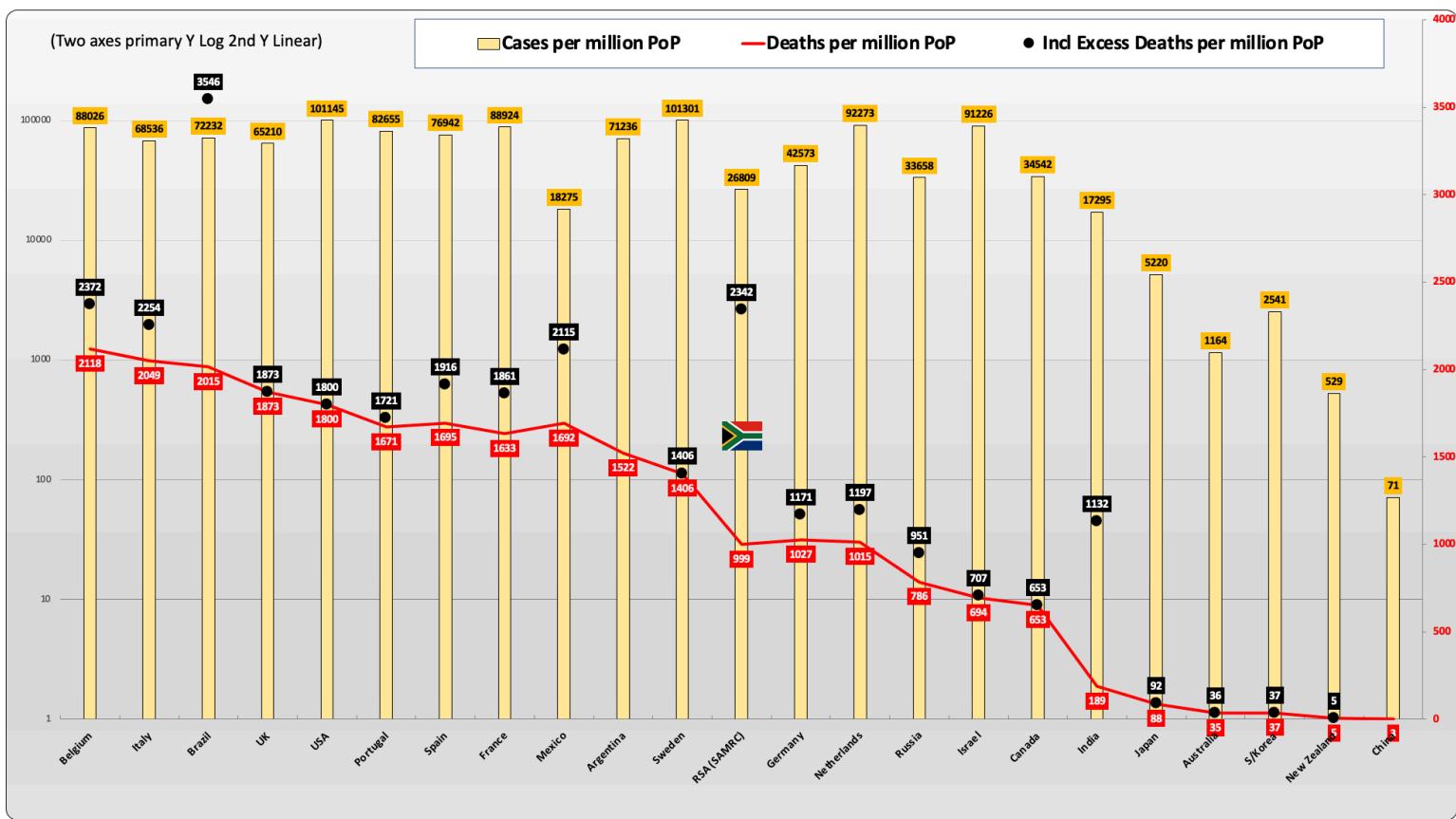
13 May 2021

Unless otherwise indicated

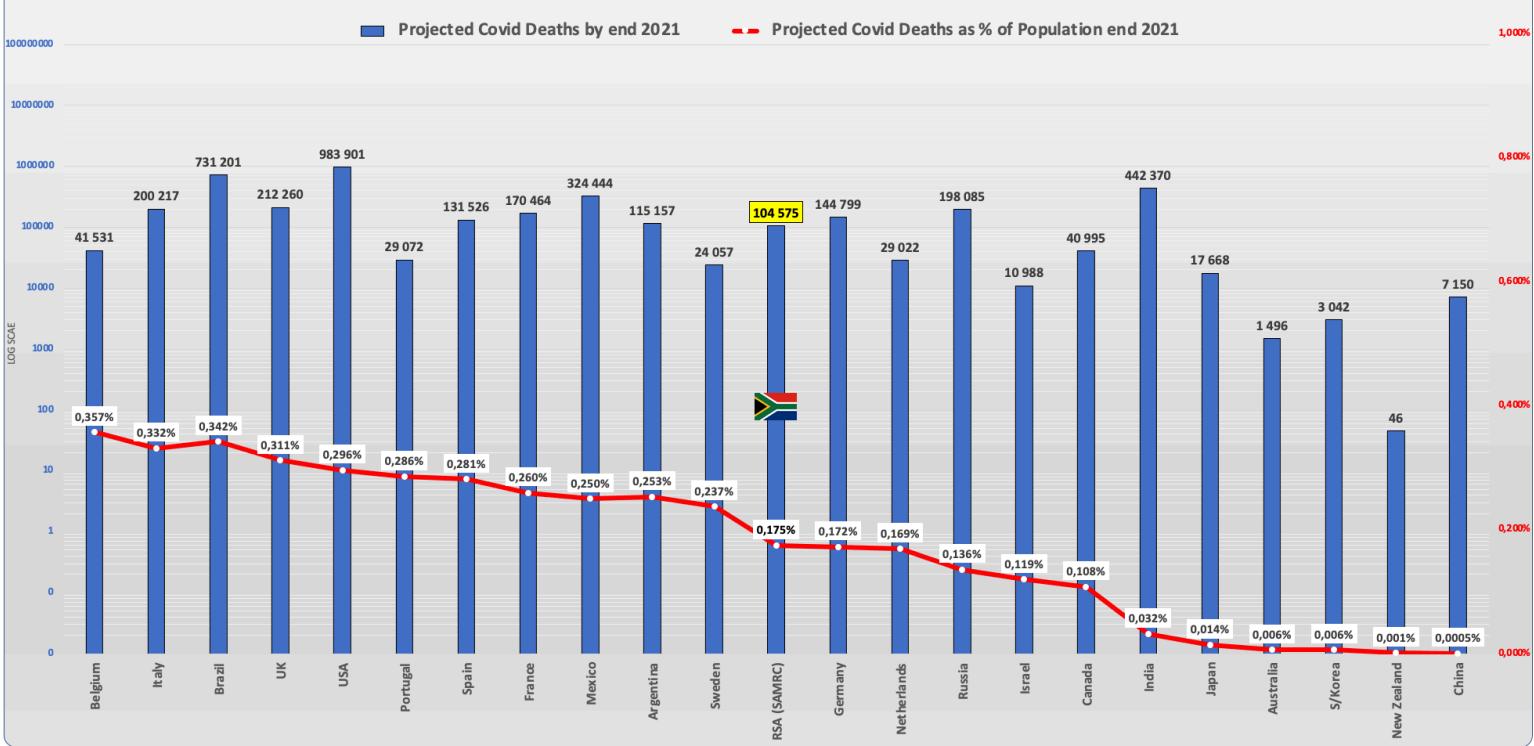
hdg 14 May 2021

Selected Countries' Current Reported Cases, Reported Deaths & Excess Deaths

Page 4



Projected Deaths by end 2021 per country and % Deaths of Country Populations at current officially reported Deaths Numbers



Data as at: 13 May 2021

Unless otherwise indicated

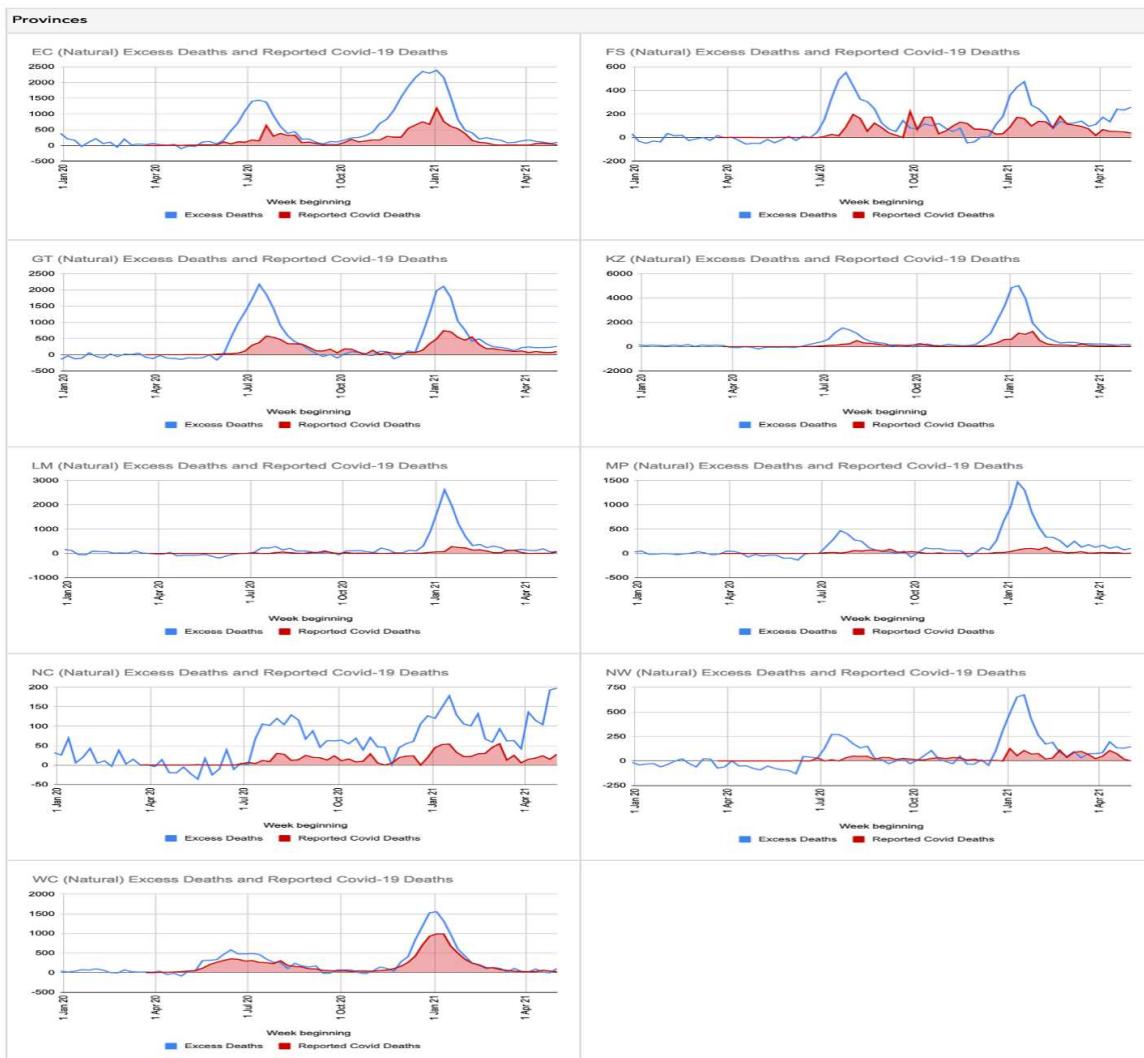
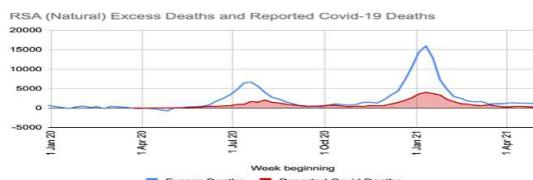
hdg 14 May 2021

RSA Excess Deaths as per SA Medical Research Council

as at: 07 May 2021

Page 5

One approach to aid understanding of the emerging COVID-19 mortality is to compare the estimated weekly excess deaths with the number of COVID-19 deaths reported by the Minister of Health as shown in the figure below. This comparison is hampered to some degree by the fact that excess deaths are classified by week, in which the cause of death is not known, while COVID-19 deaths are classified by date, so the numbers are reported to the Department. If all excess natural deaths were due to COVID-19, and all COVID-19 deaths were perfectly identified and reported, the two series would be identical. The number of estimated excess deaths has begun to decrease, consistent with the trend in the number of confirmed COVID-19 deaths. Although more data are needed on the underlying causes of death, this observation is strongly supportive that a significant proportion of the current excess mortality being observed in South Africa is likely to be attributable to COVID-19.



The red lines are weekly Covid deaths as reported by Dept of Health.
The blue lines are total Natural Deaths as reported by Dept of Home Affairs.
The gaps are the socalled "Excess Deaths" which can largely be ascribed to Covid, either directly (home/rural deaths) and/or indirectly (limited access to hospitals).

Data as at:

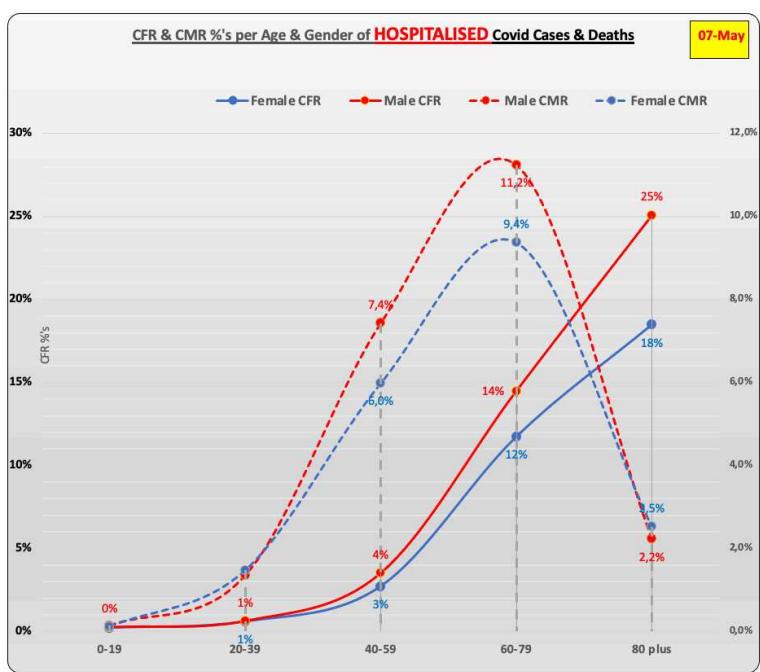
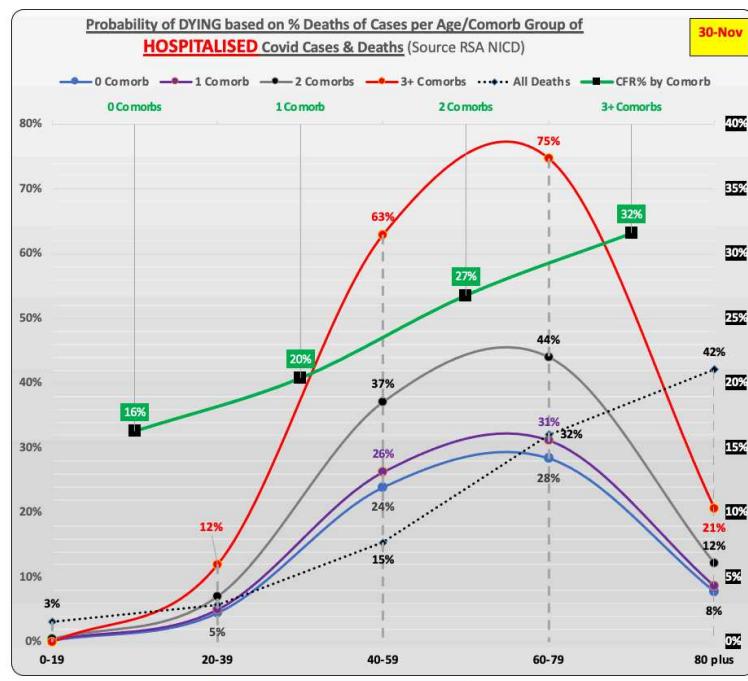
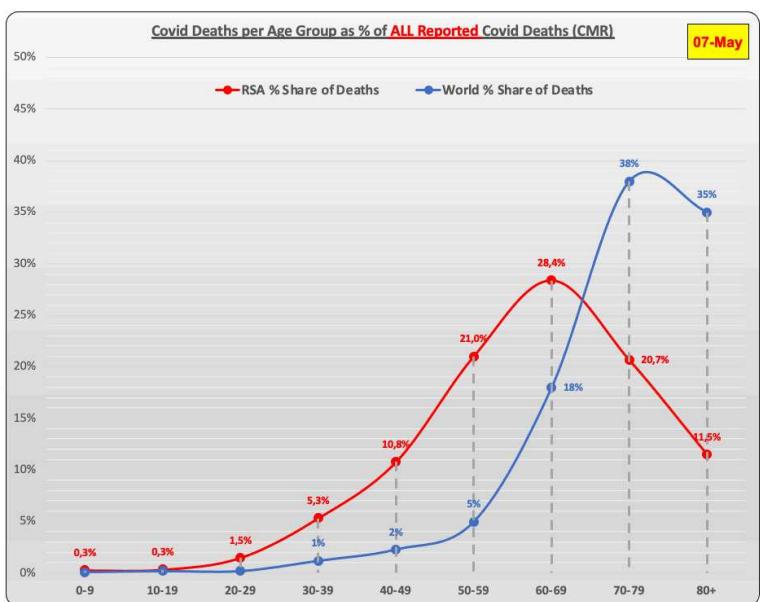
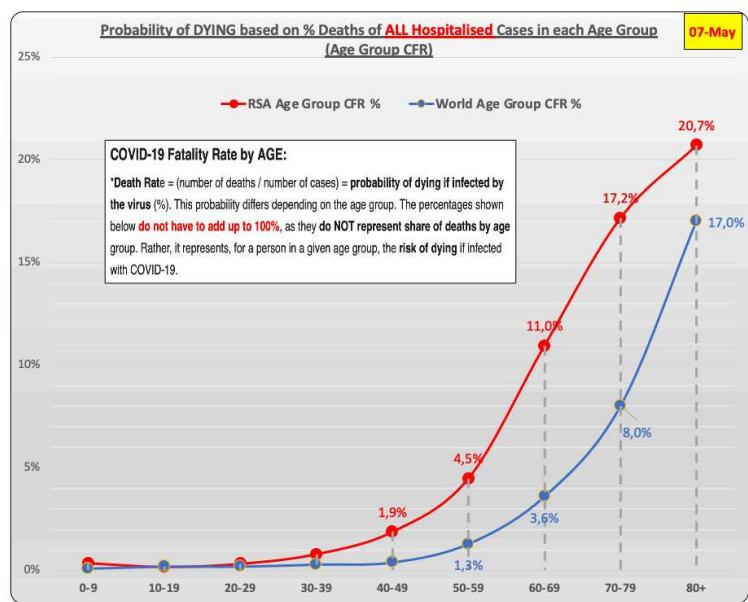
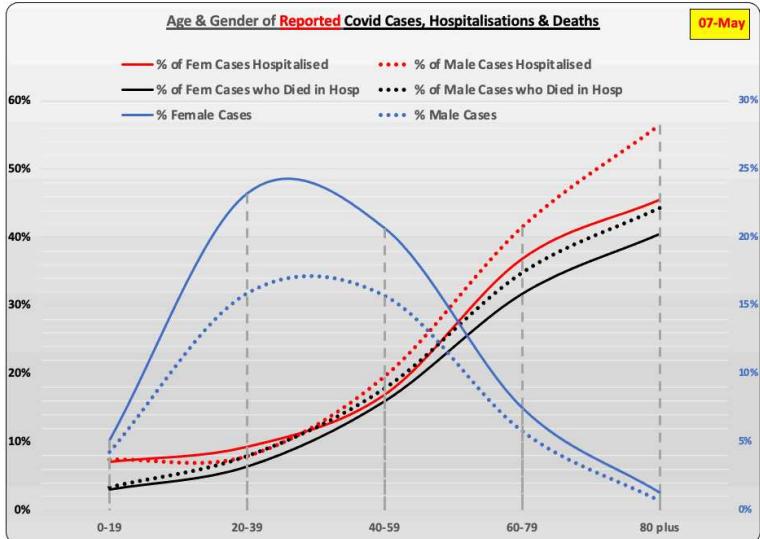
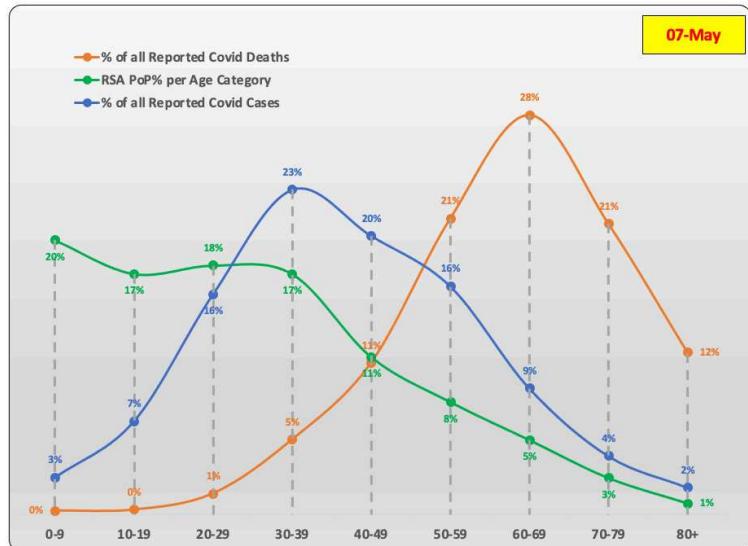
Latest Available

hdg

14 May 2021

RSA Age & Gender Stats

Page 5.1



Data as at: As indicated per graph

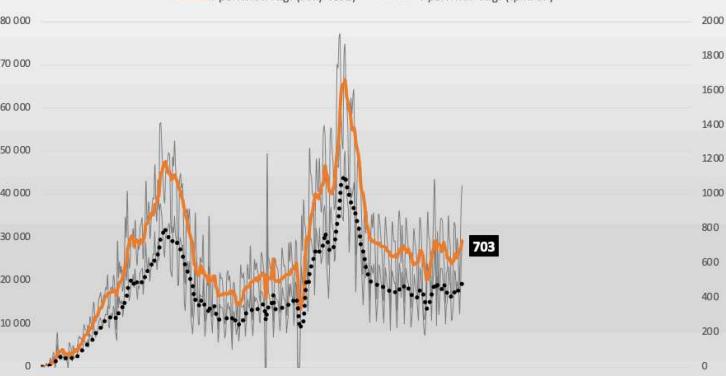
hdg 14 May 2021

RSA Key Ratios & Comparators (all graphs from Jan 2020)

Page 5.2

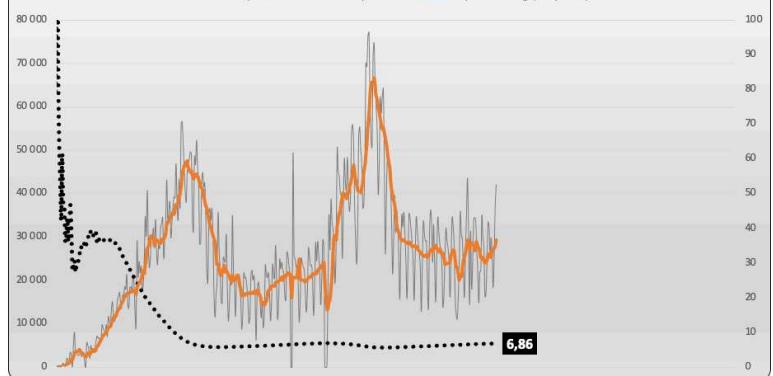
RSA: Daily Tests per million PoP

— 7 per. Mov. Avg. (Daily Tests) ••••• 7 per. Mov. Avg. (TpPoP)



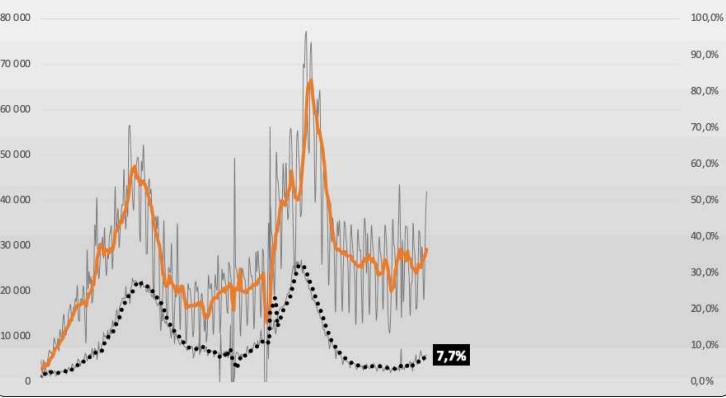
RSA: Daily Tests per +Case

— Daily Tests ••••• Tests per Case — 7 per. Mov. Avg. (Daily Tests)



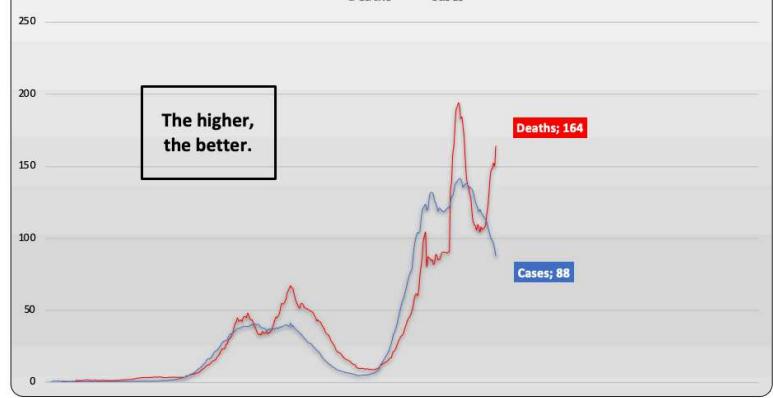
RSA: Daily Tests Positivity %

— 7 per. Mov. Avg. (Daily Tests) ••••• 7 per. Mov. Avg. (DtR)

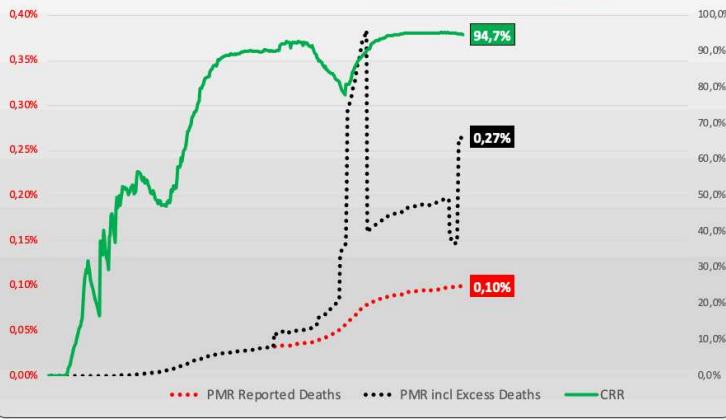


RSA Doubling Times in Days

— Deaths — Cases

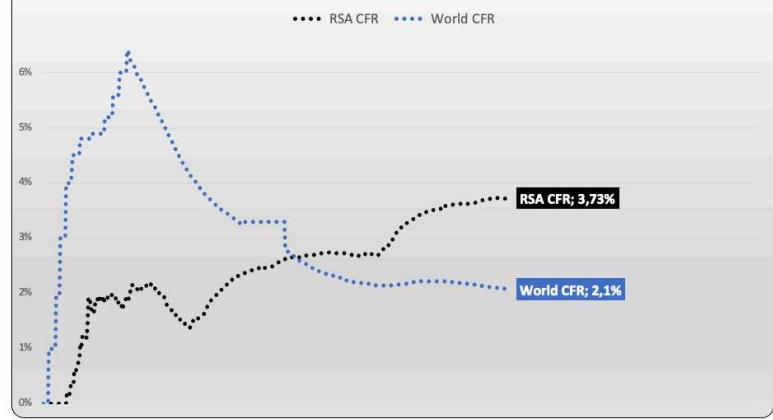


RSA: Case Recovery Rate & PoP Covid Mortality Rate



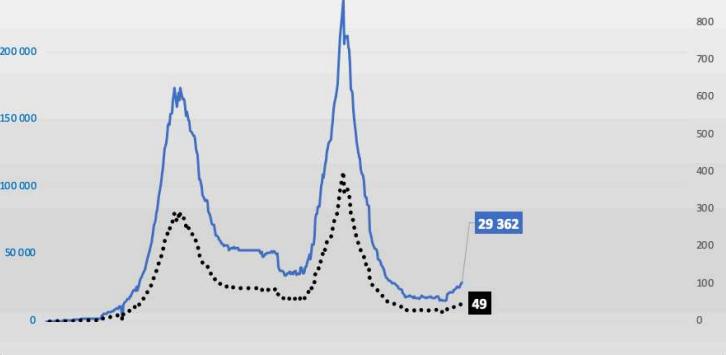
Covid Reported Deaths as % of Reported Cases (CFR)

•••• RSA CFR ••••• World CFR



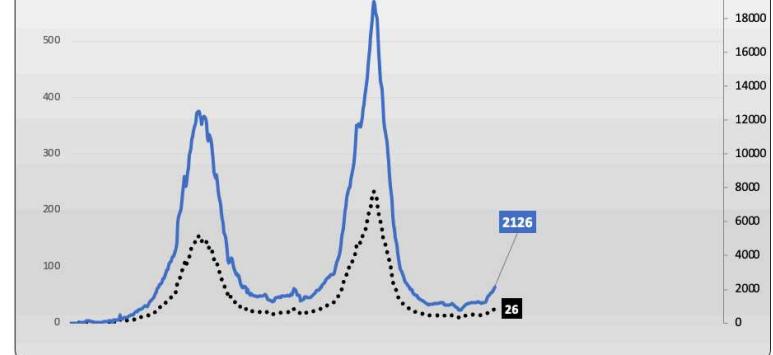
RSA: Still Active Reported Cases per 100k PoP

— Still Active Cases ••••• ActCp100kPoP



RSA: Avg New Reported Cases per week per 100k PoP

••••• Avg New Cases per Week per 100k PoP — 7 day MA New Cases per day



Data as at:

13 May 2021

Unless otherwise indicated

hdg

14 May 2021

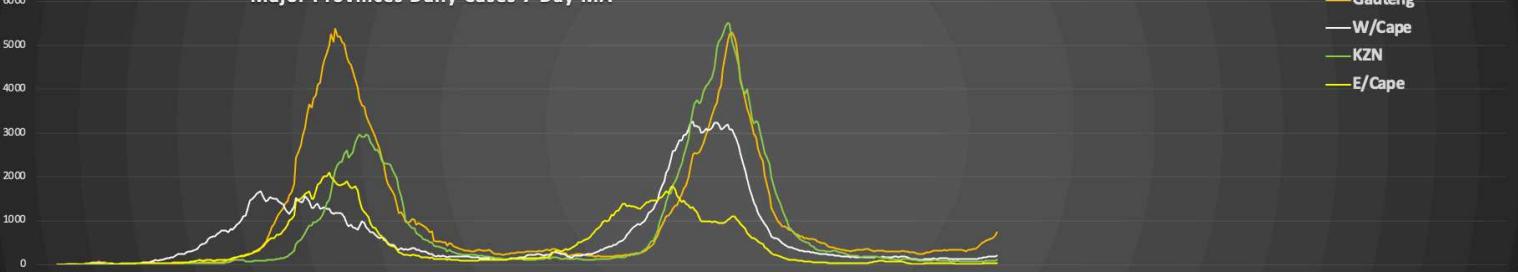
RSA & Provinces Key Data Sets

All linear scales

Page 5.3

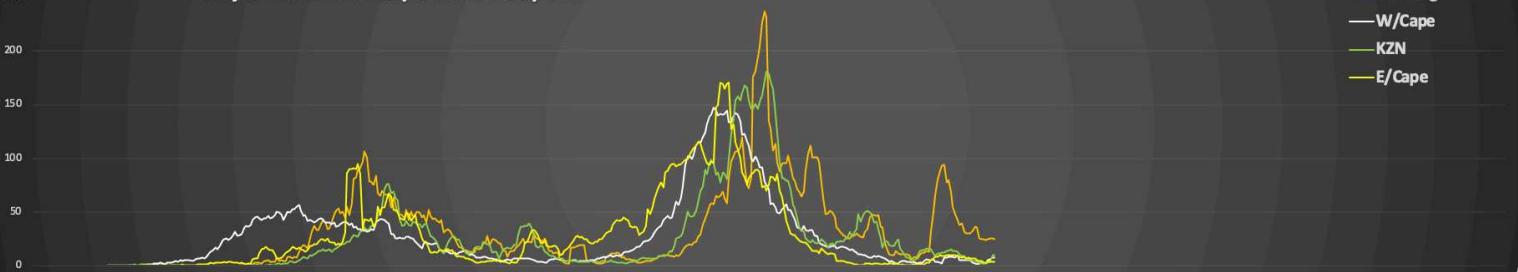
Major Provinces Daily Cases 7 Day MA

Gauteng
W/Cape
KZN
E/Cape



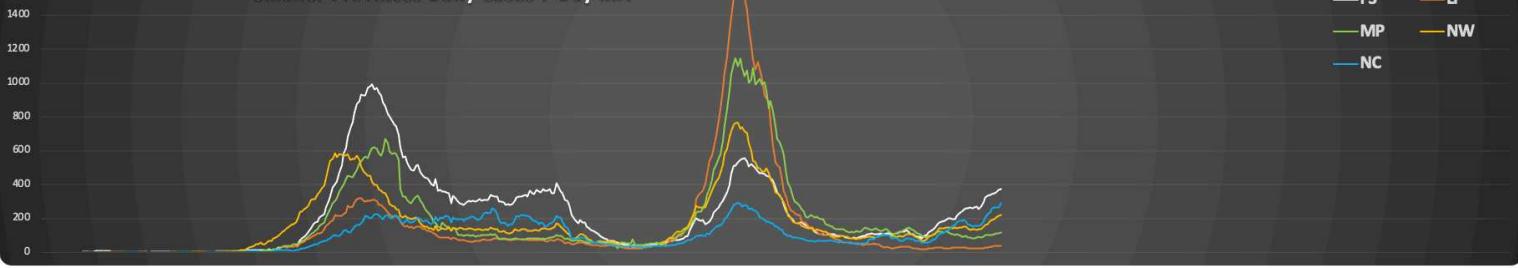
Major Provinces Daily Deaths 7 Day MA

Gauteng
W/Cape
KZN
E/Cape



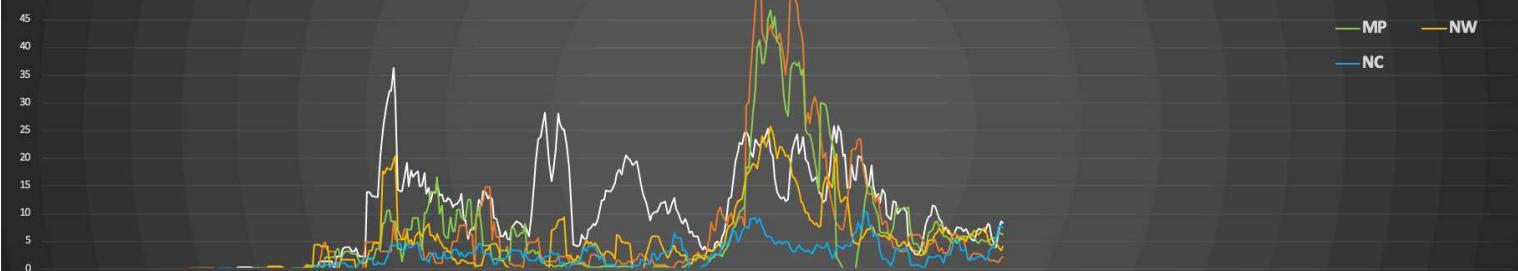
Smaller Provinces Daily Cases 7 Day MA

FS
LP
MP
NW
NC



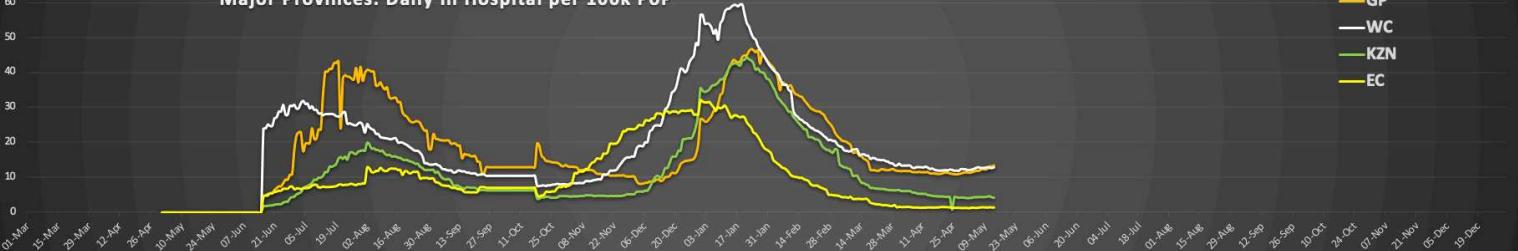
Smaller Provinces Daily Deaths 7 Day MA

FS
LP
MP
NW
NC



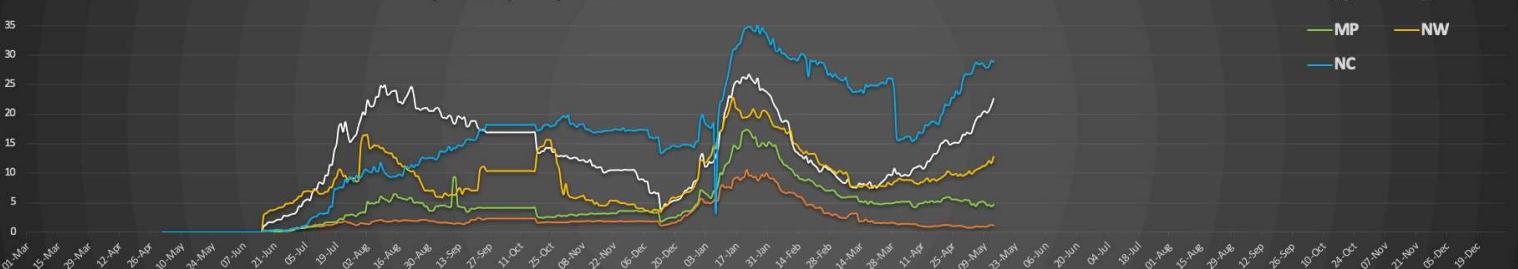
Major Provinces: Daily In Hospital per 100k PoP

GP
WC
KZN
EC



Smaller Provinces: Daily In Hospital per 100k PoP

FS
LP
MP
NW
NC



Data as at:

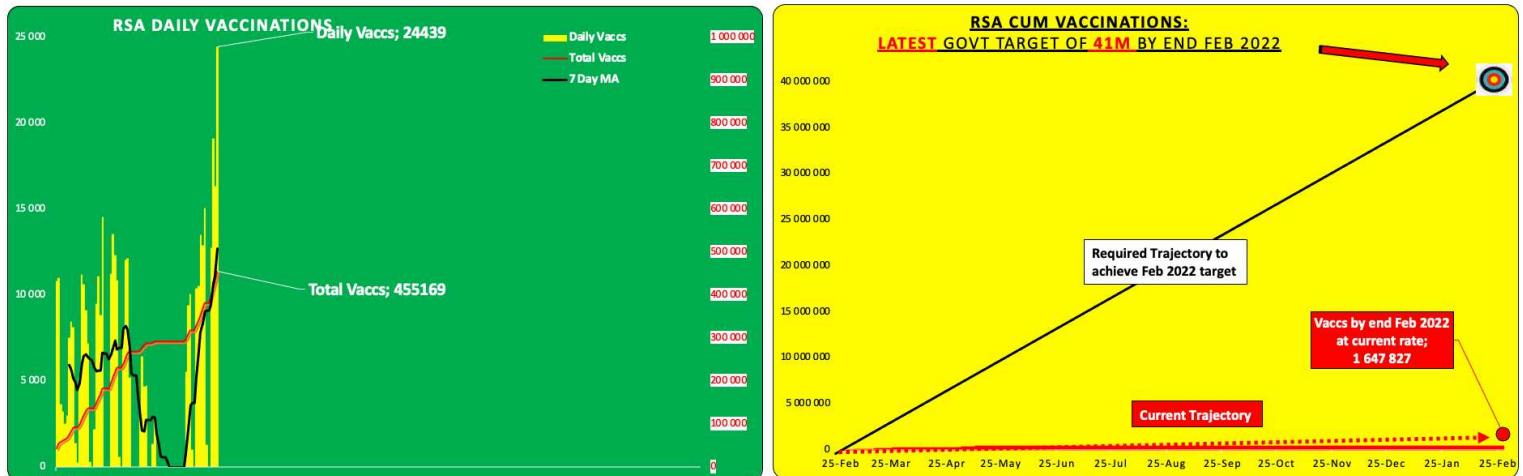
13 May 2021

Unless otherwise indicated

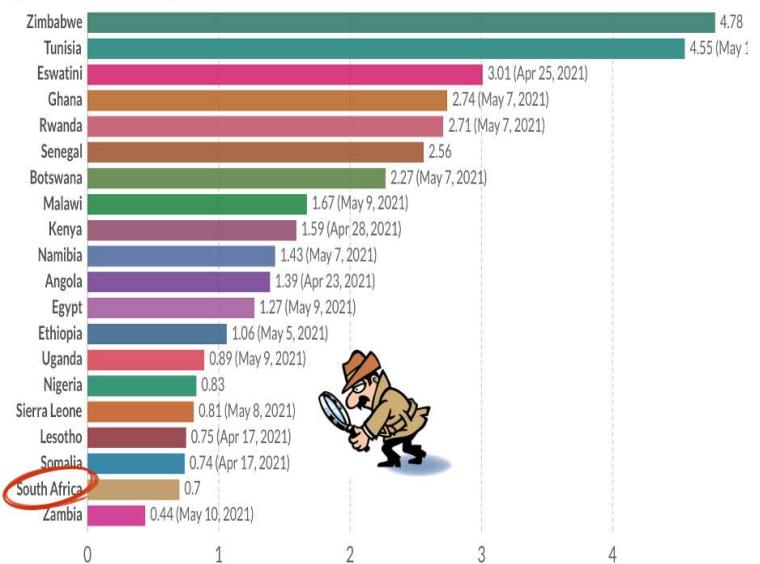
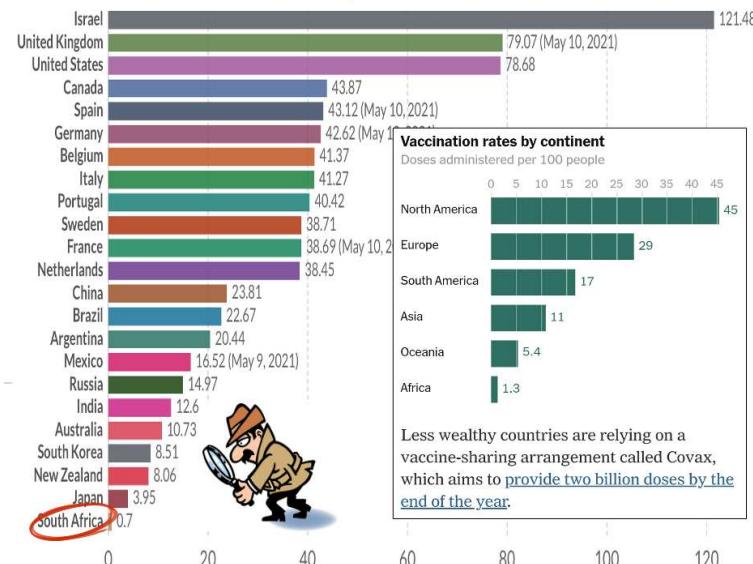
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14 May 2021

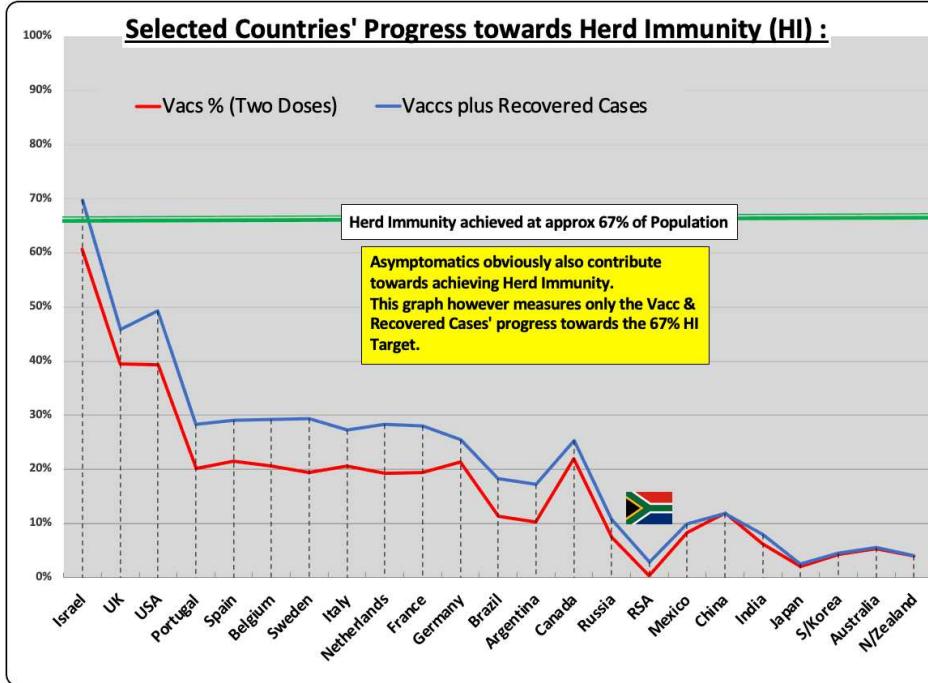
Vaccination Data



Selected countries who publish their VAC data : Vaccs per 100 Population (# >100 means into 2nd doses)



Selected Countries' Progress towards Herd Immunity (HI) :



How long will it take for RSA to achieve Herd Immunity Target at current rate of Vaccination ?

Vaccs to date: 455 169 (single dose) Avg Vaccs per day : 5 762

Herd Immunity Target : 40 400 000 approx 67% of RSA adult PoP
Revised up by Govt from 41m to 40.4m on 7 May 2021

19,2 Years



Excludes the contribution to Herd Immunity by Recovered and Asymptomatic Cases.

South Africa's vaccination plan

Page 6.1

Updated 7 May 2021



[Green square] = Sisonke Trial [Grey square] = National Rollout

VACCINATION ROLLOUT

28 April 2021

The Sisonke study, which uses the Johnson & Johnson vaccine, resumed after a two-week pause. The health department calls the study Phase 1A of the vaccine roll-out. By 6 May 366 101 of the 500 000 health workers in the trial had been vaccinated.

+60 year olds and health workers

Phase 2 starts on May 17. This phase will run concurrently with Phase 1B, which will cover health workers who were not vaccinated by the Sisonke study. Phase 2 will start with people over 60, which is estimated to be a population of five million. The oldest people, who have registered on the EVDS*, will generally get vaccinated first.

*Go to vaccine.enroll.gov.za to register

+40 year olds

From July, people over 40 will be included in Phase 2 of the vaccination roll-out, as well as people in congregate settings such as old-age homes (1.1 million people are estimated to reside in congregate settings)

Everyone over 18 years of age

In November, everyone else (those 18 years and older) will get their turn to get vaccinated in Phase 3 of the roll-out. This will be about 22.6 million people.

February 2022

The target, at this stage, is to have all people of 18 years and older vaccinated by February 2022. The health department says this will be up to 40.4 million people.

2021



PLANNED VACCINE DELIVERIES

2 May 2021 Pfizer

The first batch of 325,260 doses of Pfizer-BioNTech vaccine arrived in South Africa. This two-shot vaccine will be used to start vaccinating the remaining 700,000 health workers not covered by the Sisonke trial, as well as people over 60.

May to June 2021 Pfizer

Health Minister Zweli Mkhize says 5.9 million doses from Pfizer will arrive in weekly shipments of 325,260 doses until 30 May. For the five weeks after that 636,480 doses will be delivered weekly. Another 1.4 million doses of Pfizer-BioNTech vaccine are expected from Covax.

Mid-May to June 2021 J&J

1.1 million paid-for Johnson & Johnson vaccines are expected to arrive in mid-May, then two deliveries of 900,000 doses each are expected by the end of June. This is dependent on when Aspen releases the jabs. The health department says the shots have been made, but can be released only once a safety verification process by international regulatory authorities has been completed. **

July to December 2021 Pfizer

In Parliament on 28 April, Mkhize said by the end of June another 2 million doses of Pfizer-BioNTech are expected and another 8 million are expected by the end of September. The president omitted these doses in parliament on 6 May.

28.2 million Johnson & Johnson doses are expected between July and the end of the year. J&J

Total Vaccines by end of 2021

J&J Johnson & Johnson = 31.2 million **
(mainly for use in rural districts)
Pfizer Pfizer-BioNTech = 31.4 million (for use in metros)

** The Health Department's presentation to Parliament 28 April stated 3 million Johnson & Johnson shots would be delivered in Q2 2021. In previous statements the department has indicated that 2.9 million shots will be delivered in that period. This timeline is based on the most recent information available on 6 May. We will update the timelines and re-circulate them when the information changes.

Africa Daily Reported New Cases & Deaths 7 Day MA

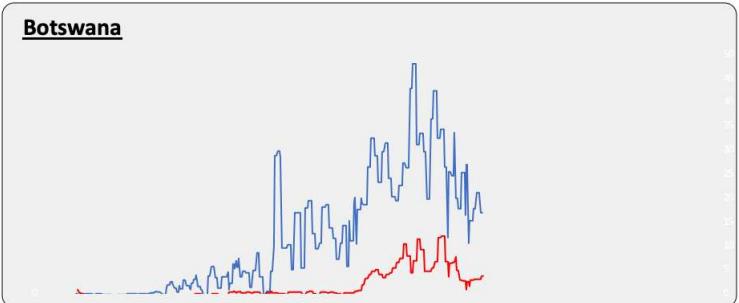
Page 6.2

 Noteworthy: Regular data shows adverse trends

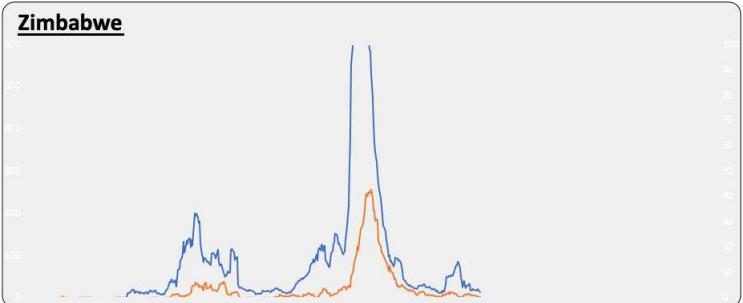
(Jan 2020 to Present)

CASES DEATHS

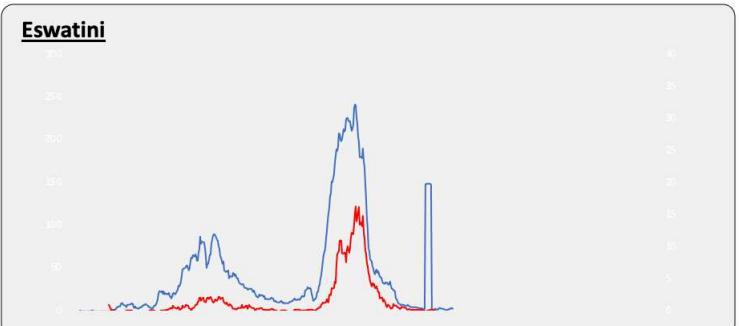
Botswana



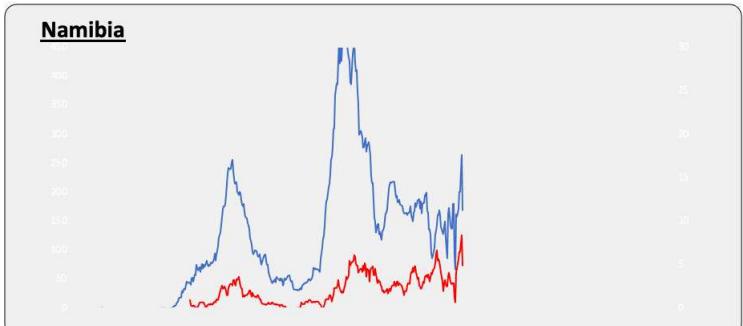
Zimbabwe



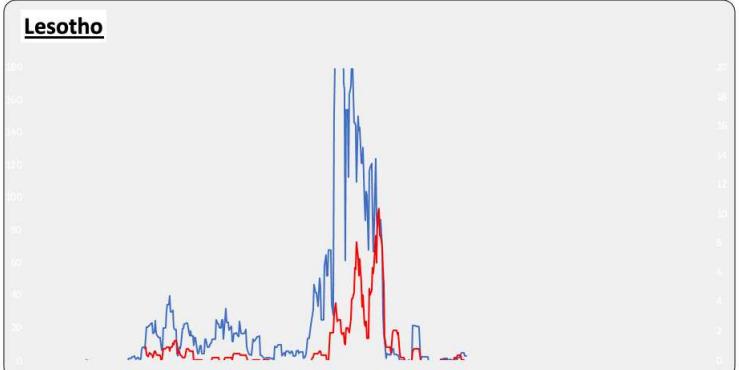
Eswatini



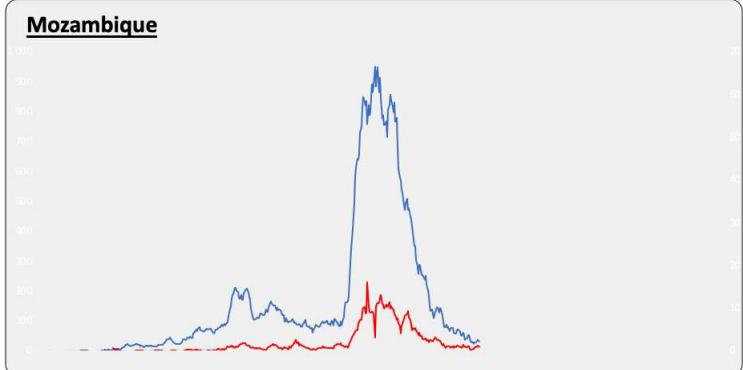
Namibia



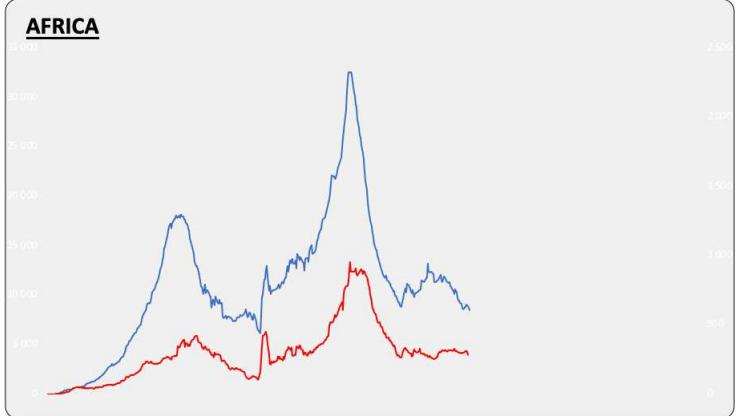
Lesotho



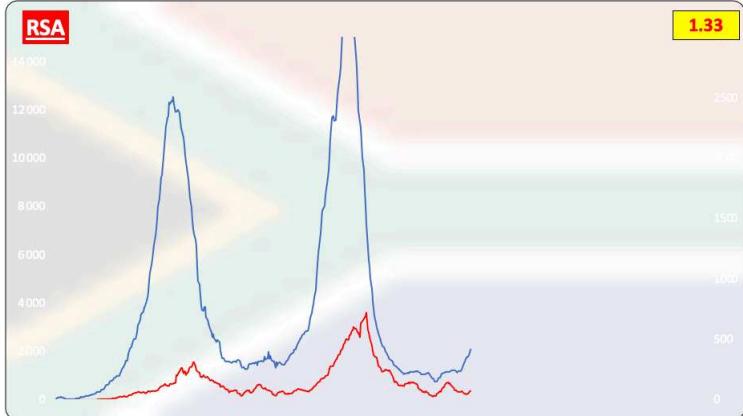
Mozambique



AFRICA



RSA



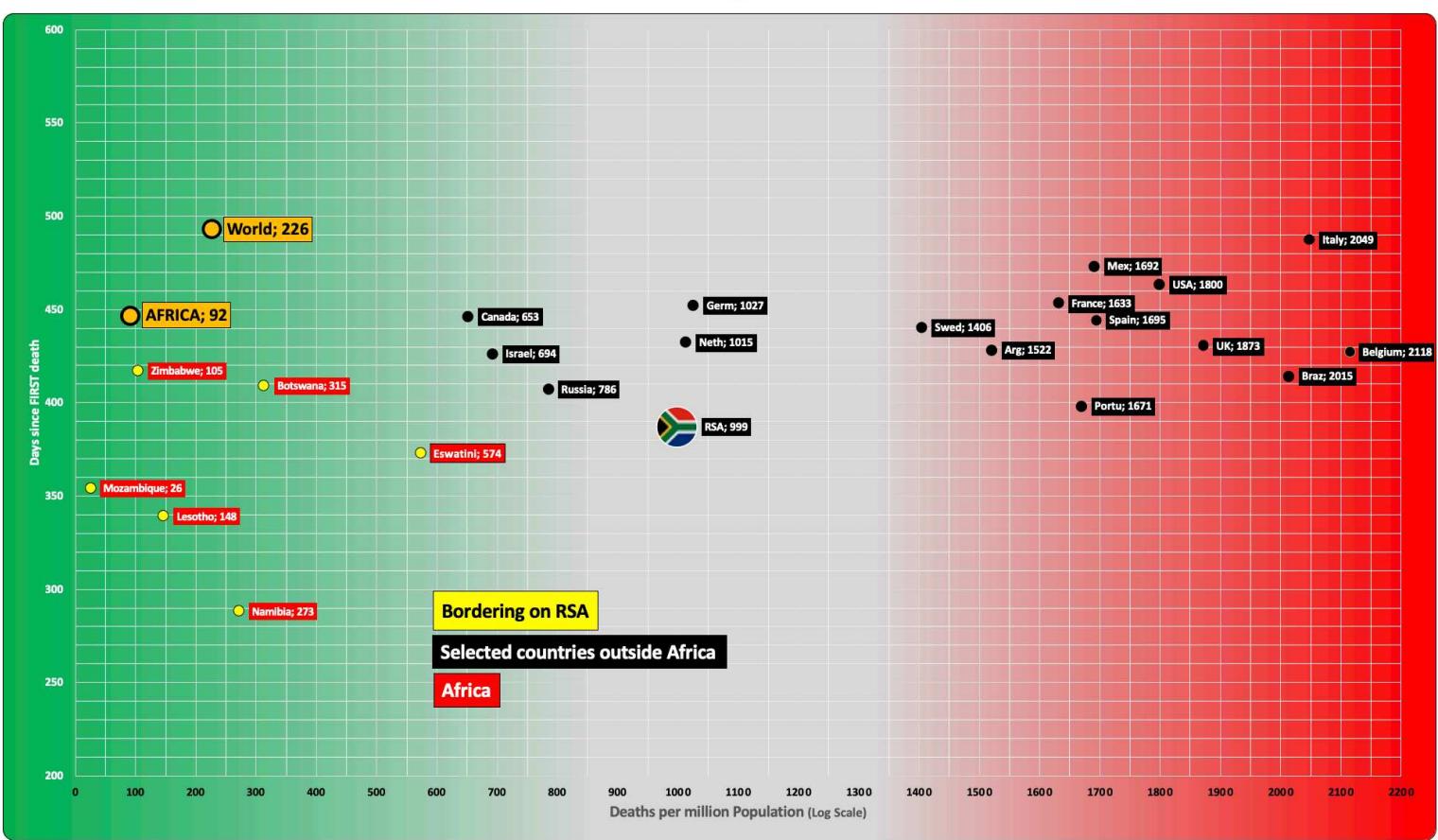
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13 May 2021

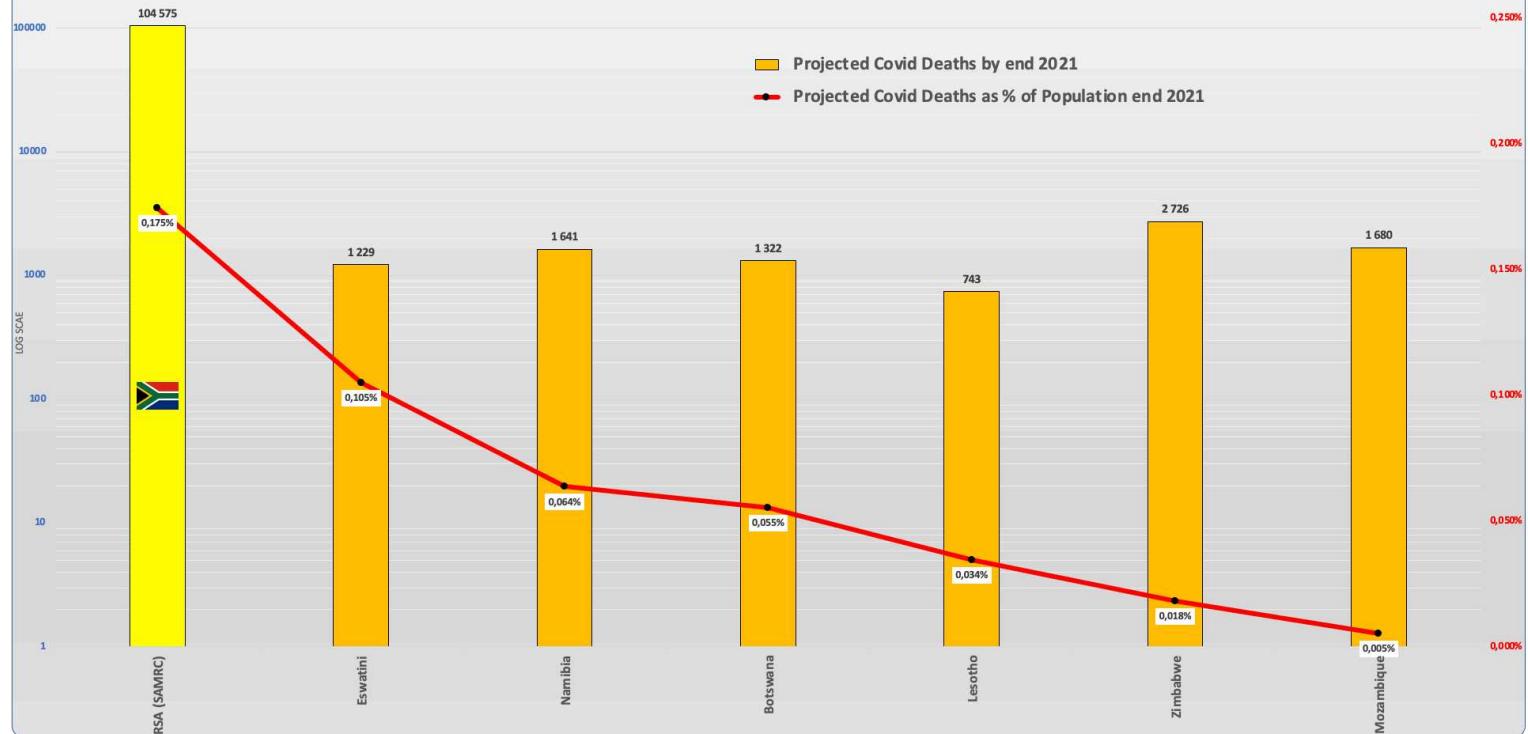
Unless otherwise indicated

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14 May 2021



Projected Deaths by end 2021 per country and % Deaths of Populations at current officially **reported** Death Numbers



Some food for thought.....

