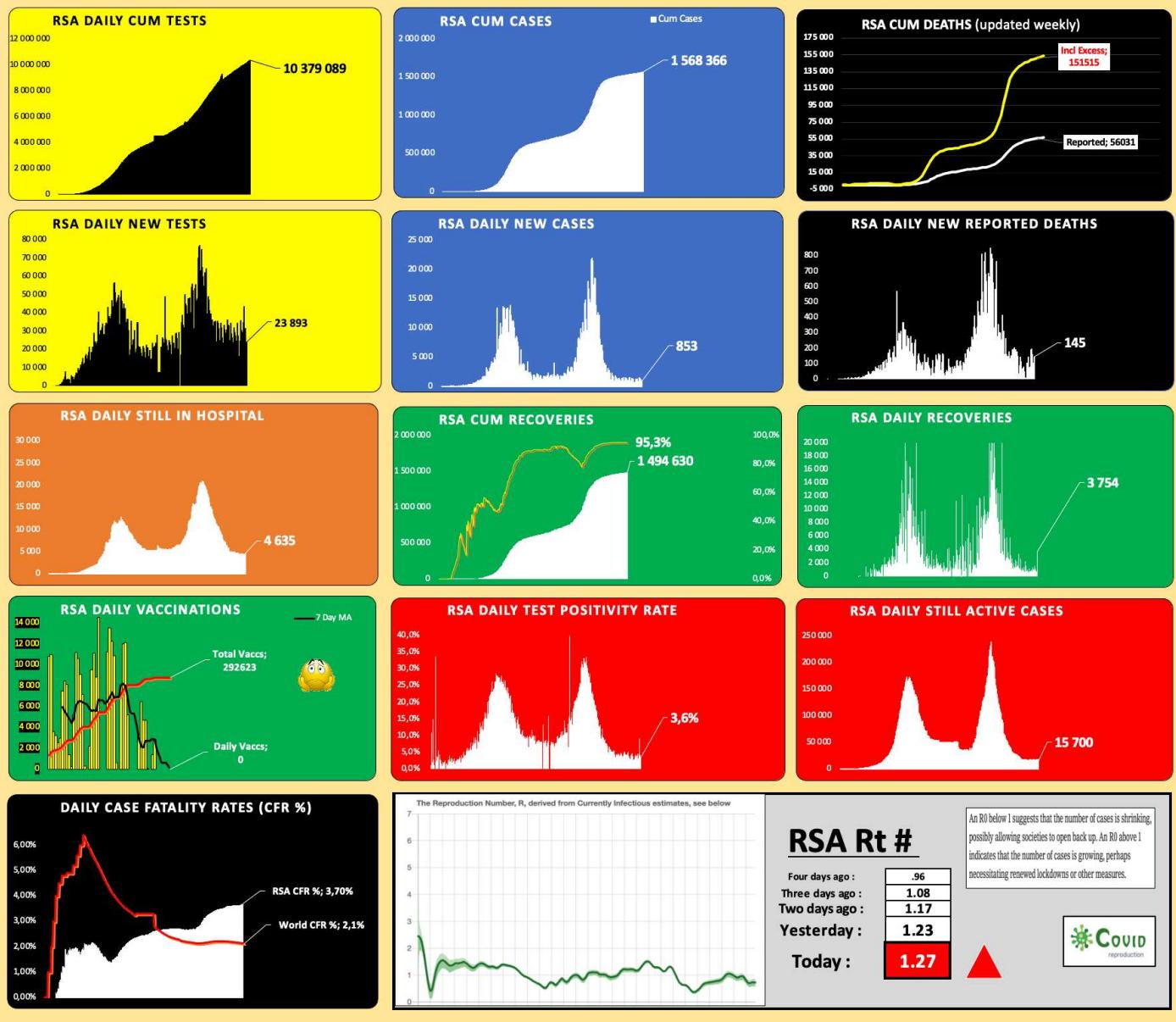


HarryG COVID-19 Dashboard

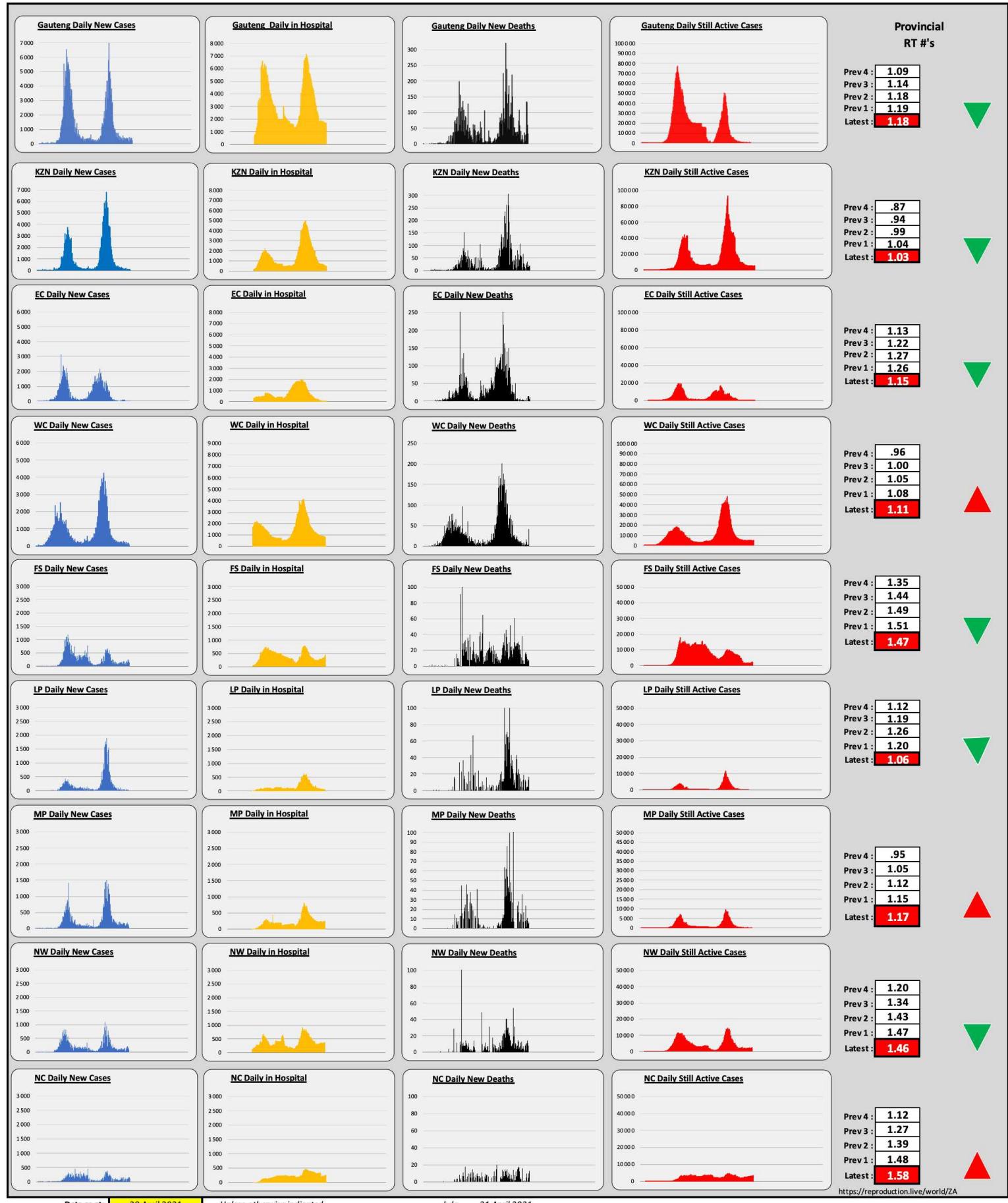
Page 1

Cum Cases		Daily Cases		RSA COVID-19 DASHBOARD		Daily Still in Hospitals	% of Reported Cum Cases who Died (CFR)	Vaccinations:		
Still Active +Cases	Cum Cases p mill PoP	Cum Deaths p mill PoP		20 April 2021		4635	3,70%	Total	Yesterday	Avg
15 700	26 193	969						292 623	0	5 225
Deaths Ages Avg	Deaths Median	Deaths Min Age	Deaths Max Age	Cum Deaths	Daily	58 036	145	% of RSA PoP who have died to date: Reported	0,097%	0,194%
62,4	57,9	0,2	105	Cases	Deaths	CFR	Hospitalised	Incl Excess		
Female :		57,8%	52,1%	3,07%	55,7%	1 494 630	95,3%	Cum Recoveries:		
Male :		42,2%	47,9%	3,86%	44,3%			Daily Test Positivity Rate:		
14-Apr										



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

Page 1.1



Data as at: 20 April 2021

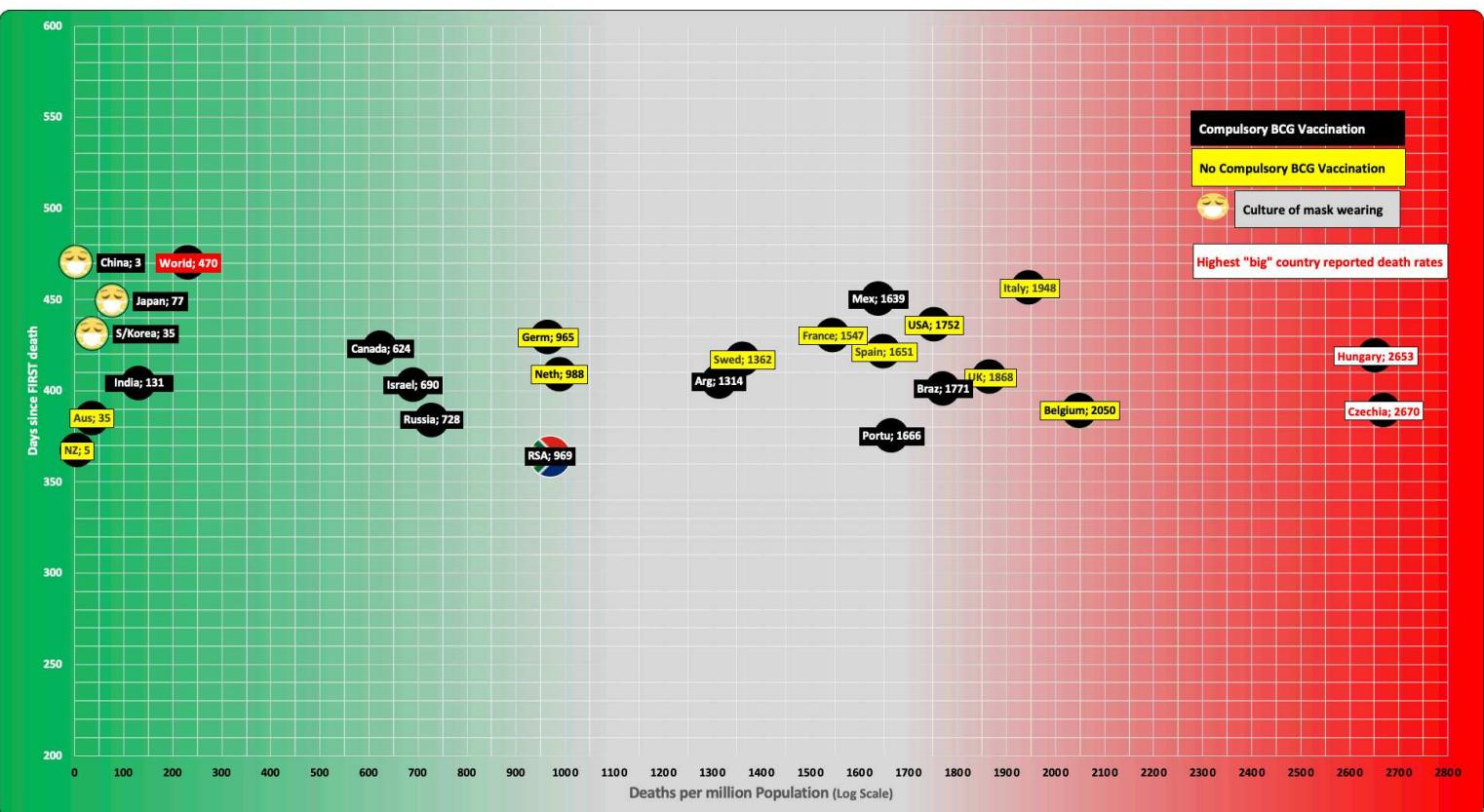
Unless otherwise indicated

hdg 21 April 2021

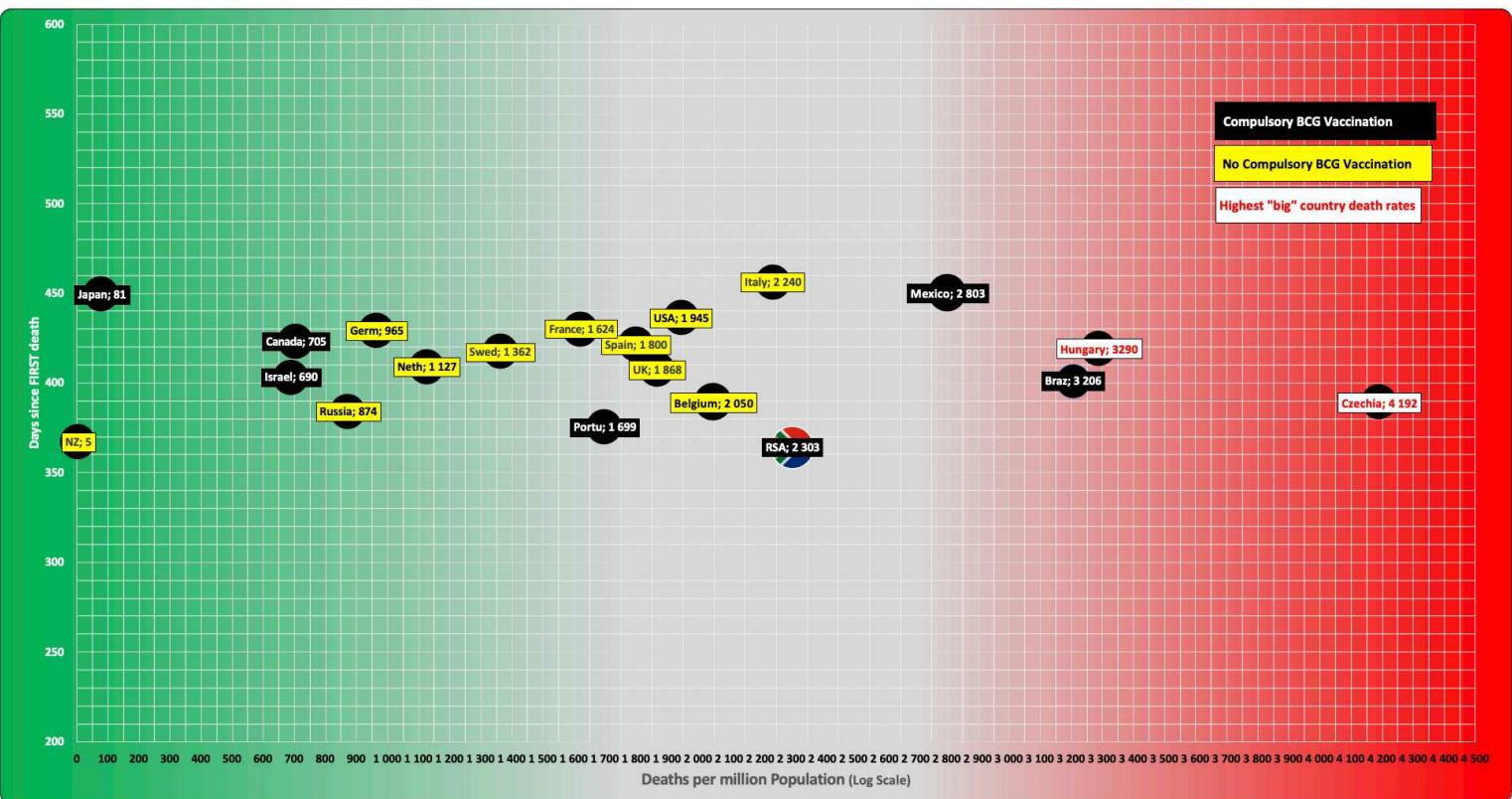
<https://reproduction.live/world/ZA>

Selected Countries' Reported Deaths per mill PoP

Page 2



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



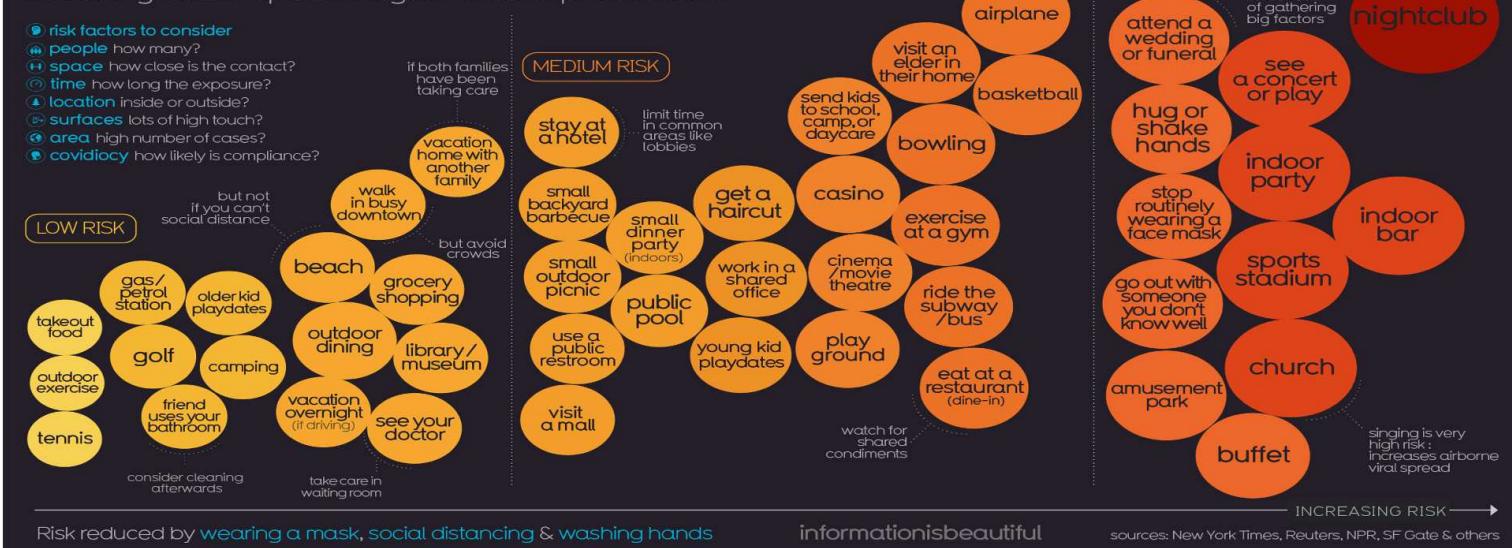
Data as at: 20 April 2021

Unless otherwise indicated

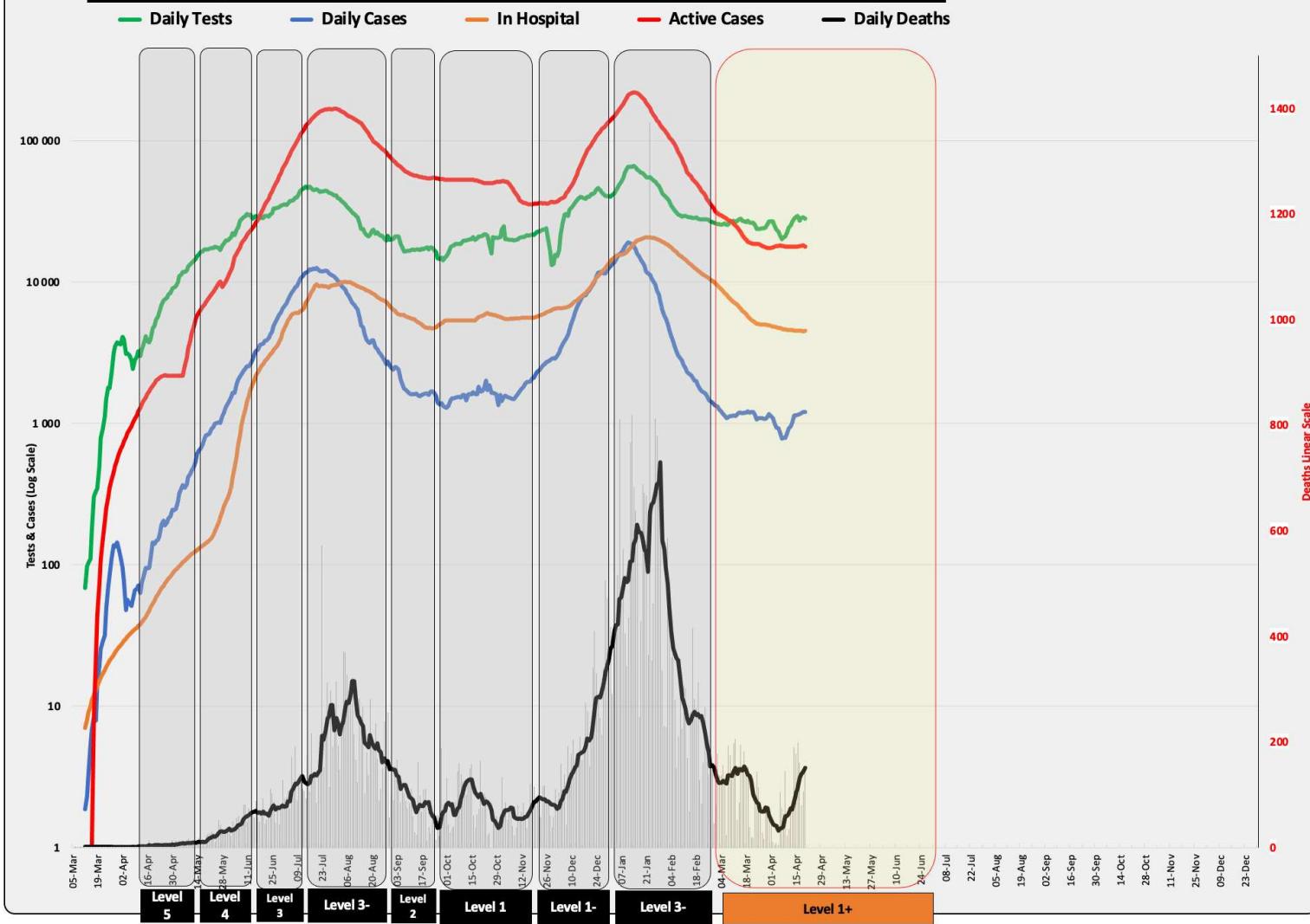
hdg 21 April 2021

Coronavirus Riskiest Activities

According to 500+ epidemiologists & health professionals

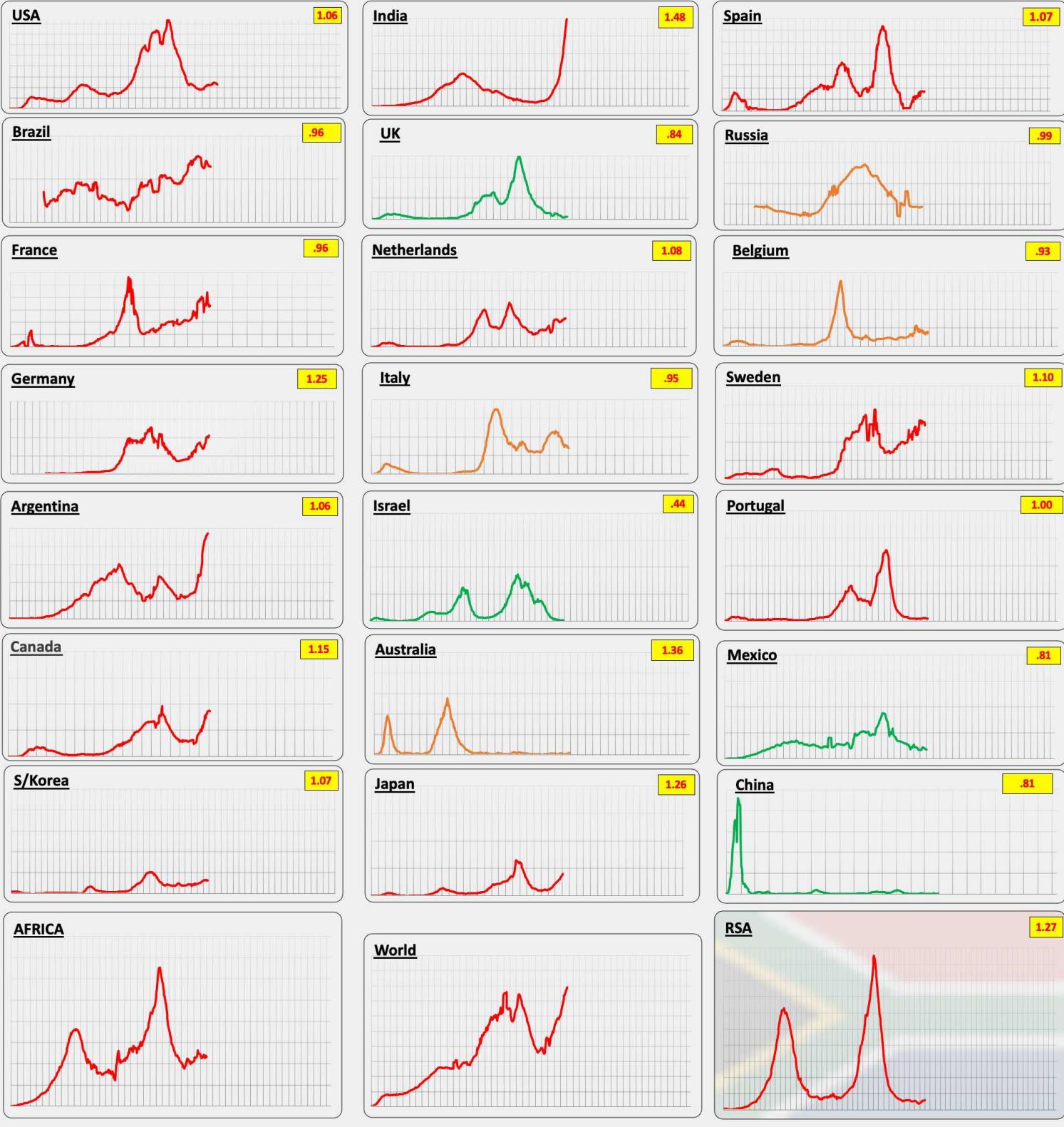


RSA Daily Testing v Daily Cases v Daily Deaths 7 Day MA



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 



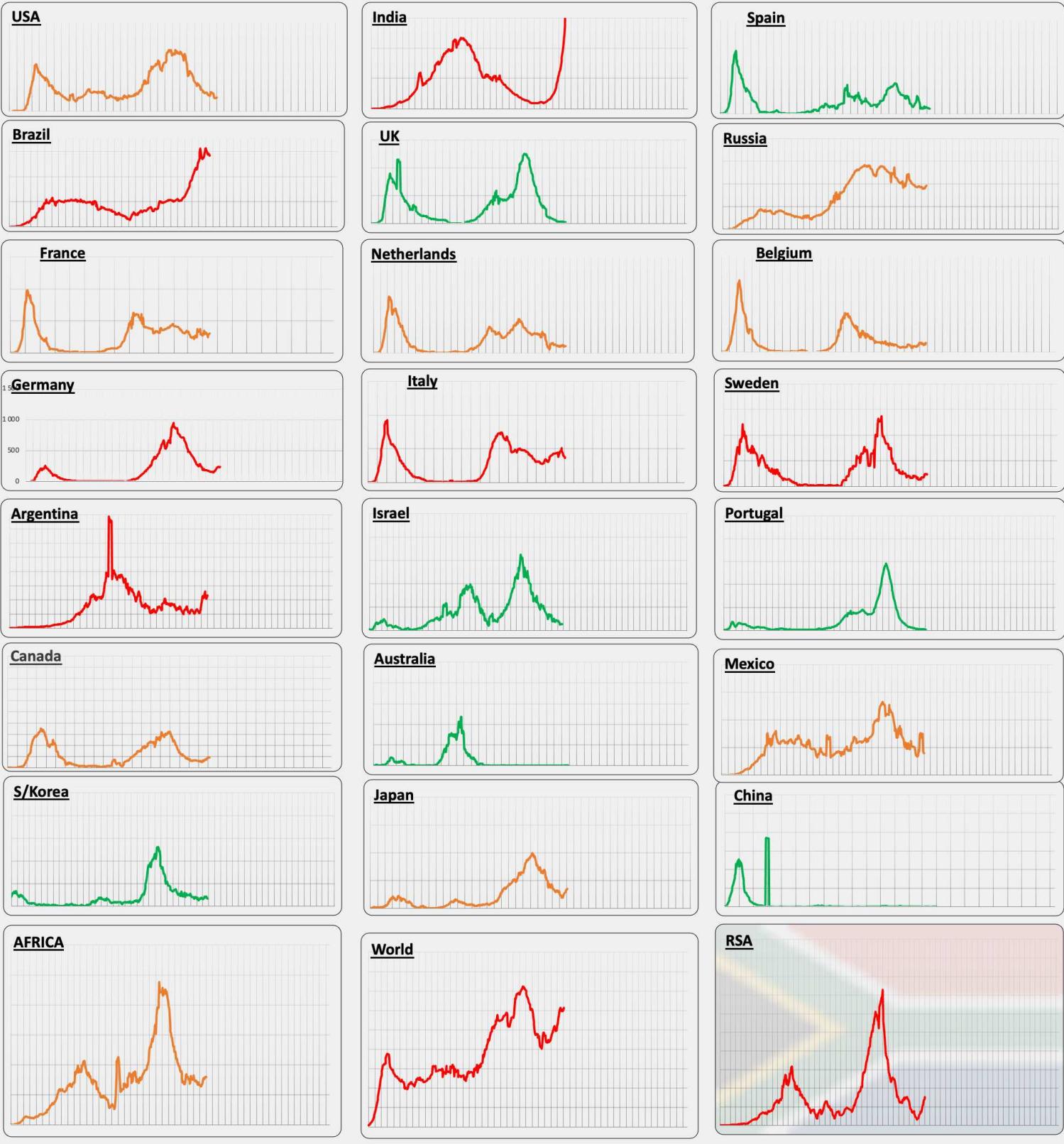
World Daily Reported Deaths 7 Day MA

Page 2.3

7 Day MA Rising

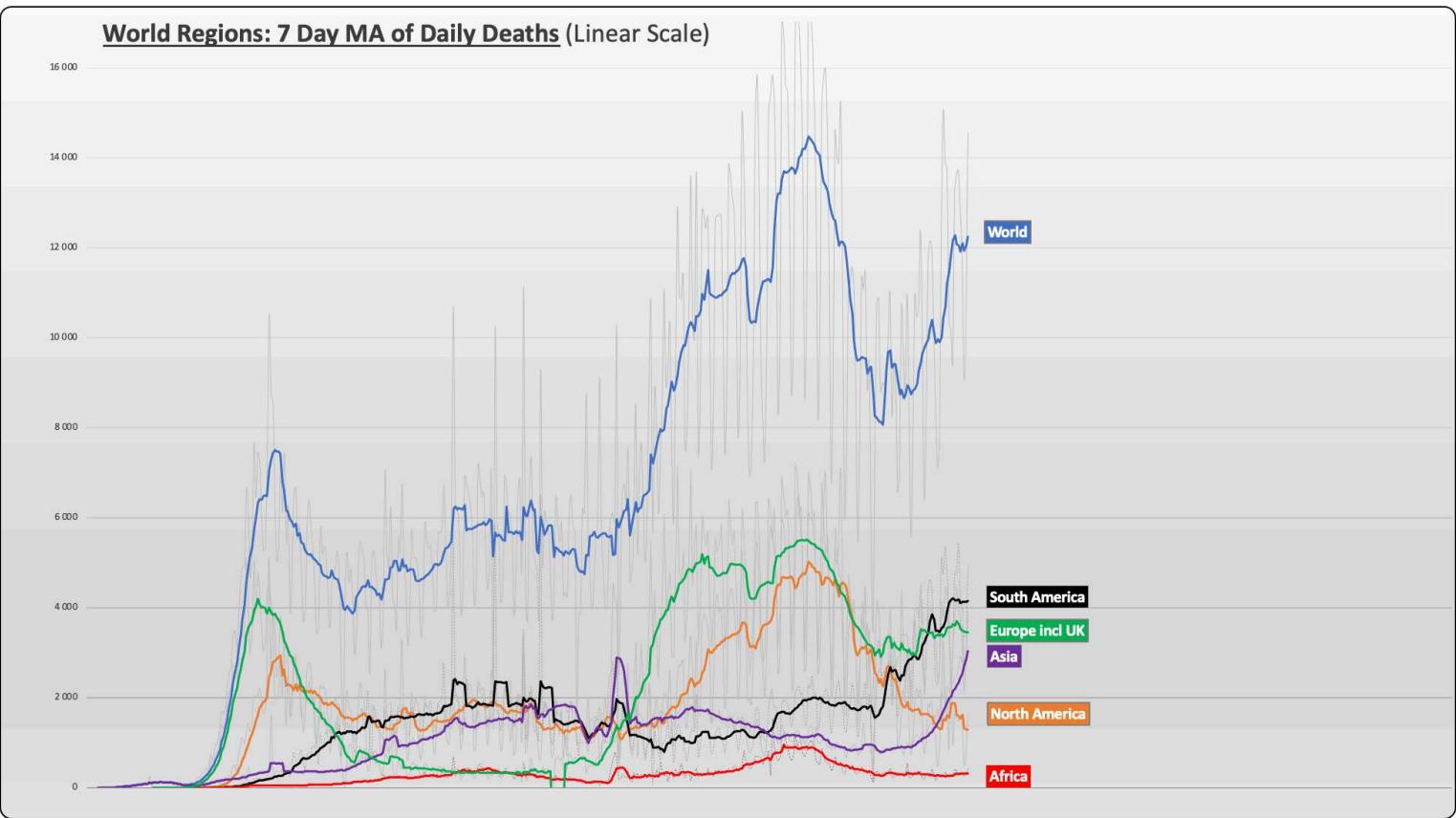
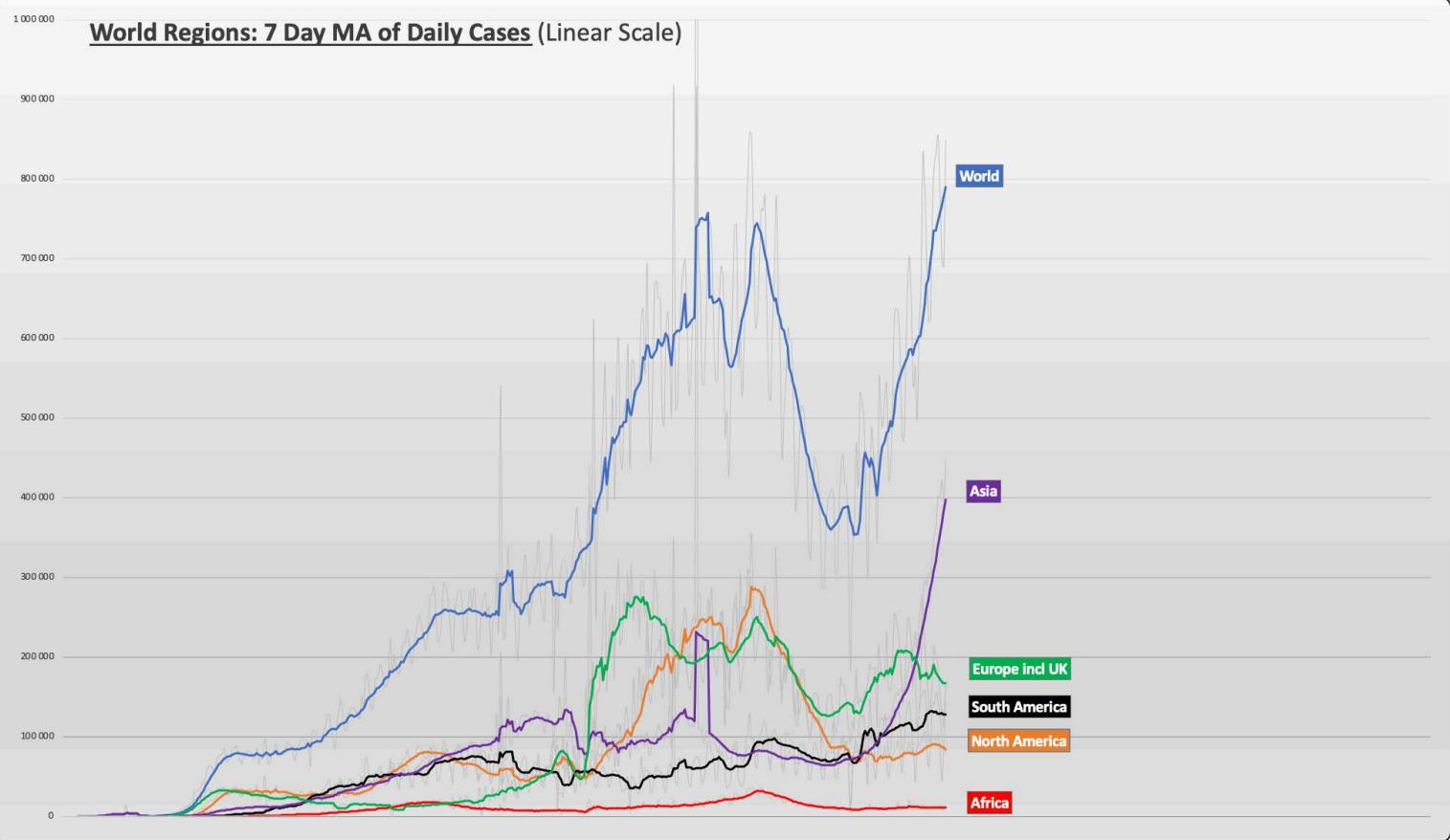
7 Day MA Declining but still high

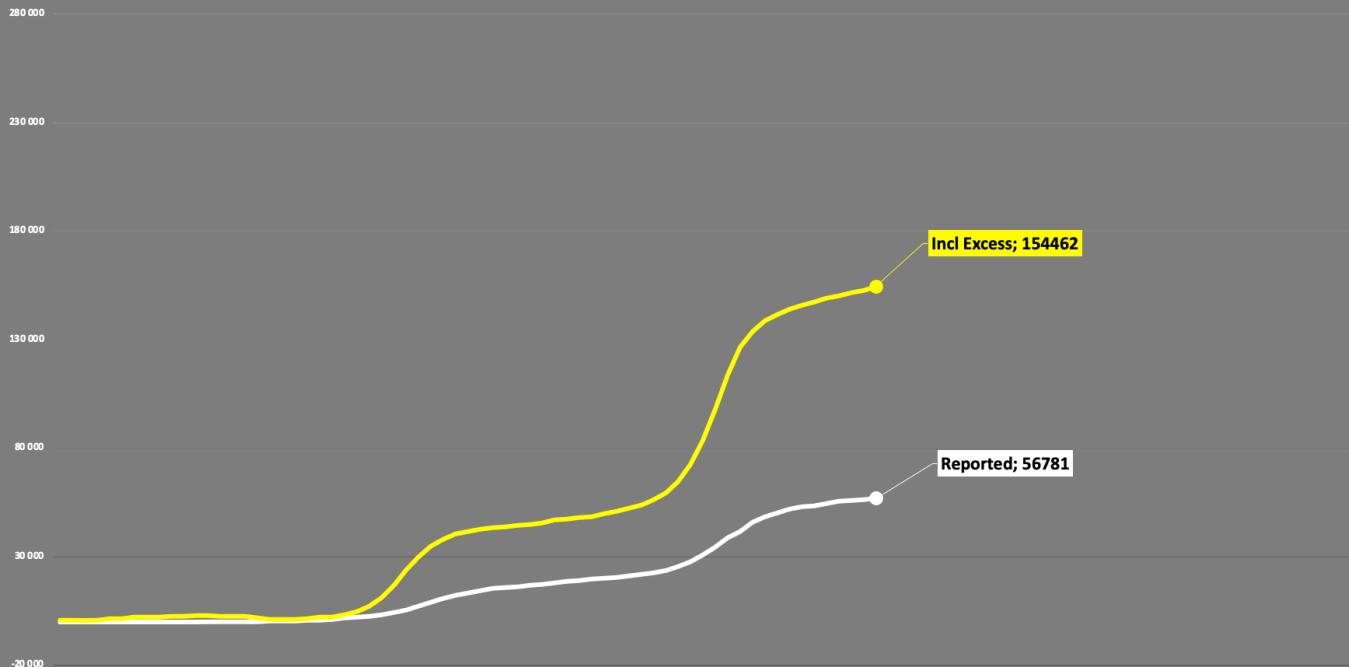
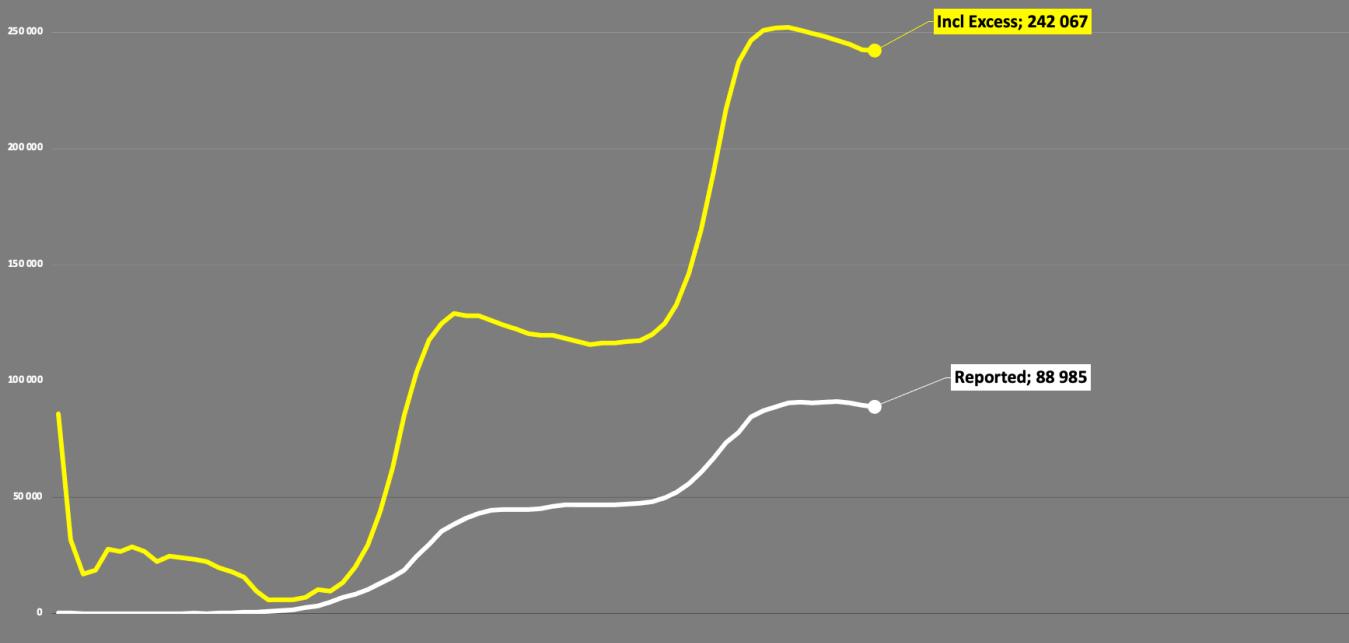
7 Day MA Low and stable



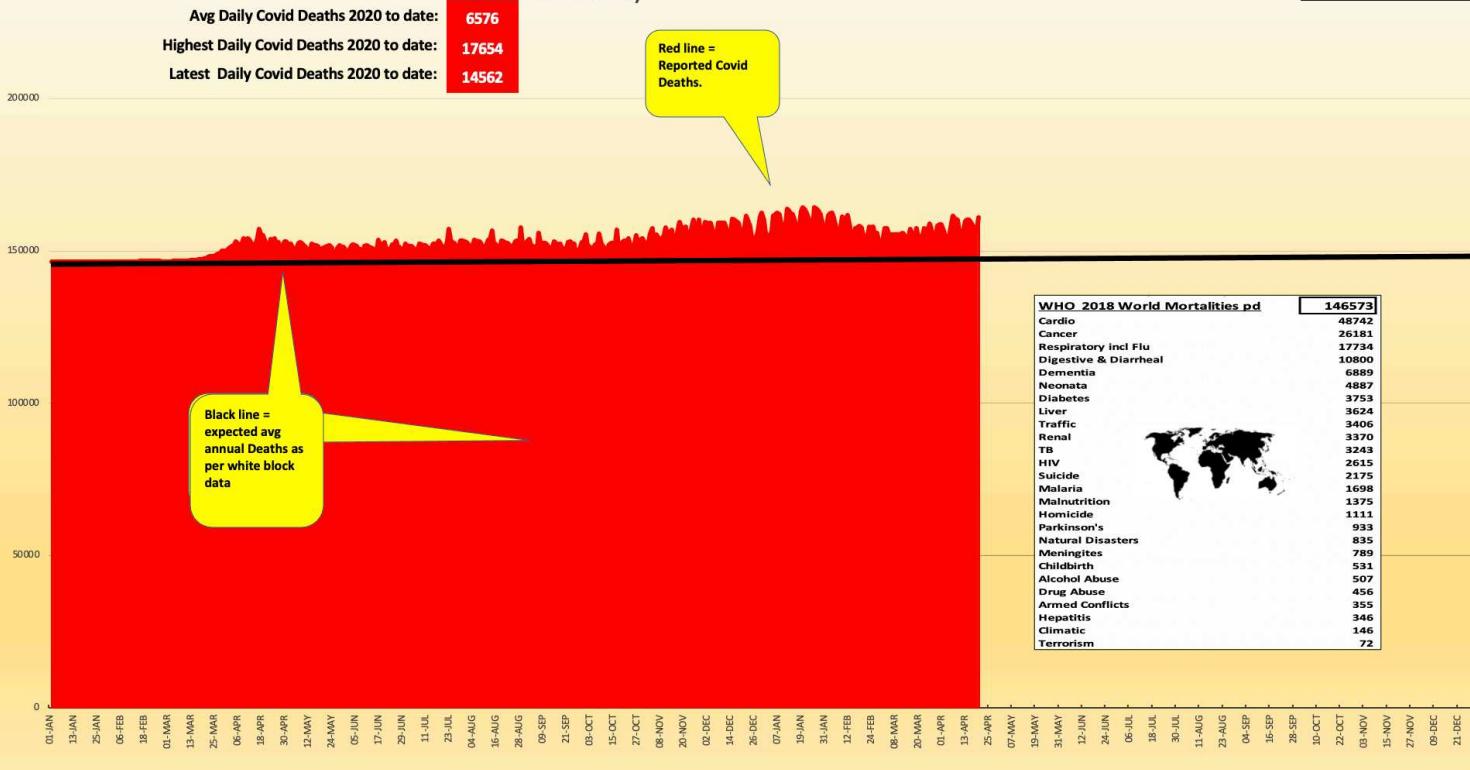
7 Day Moving Average of Daily Reported Deaths & Cases by World Region

Page 3.0



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

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



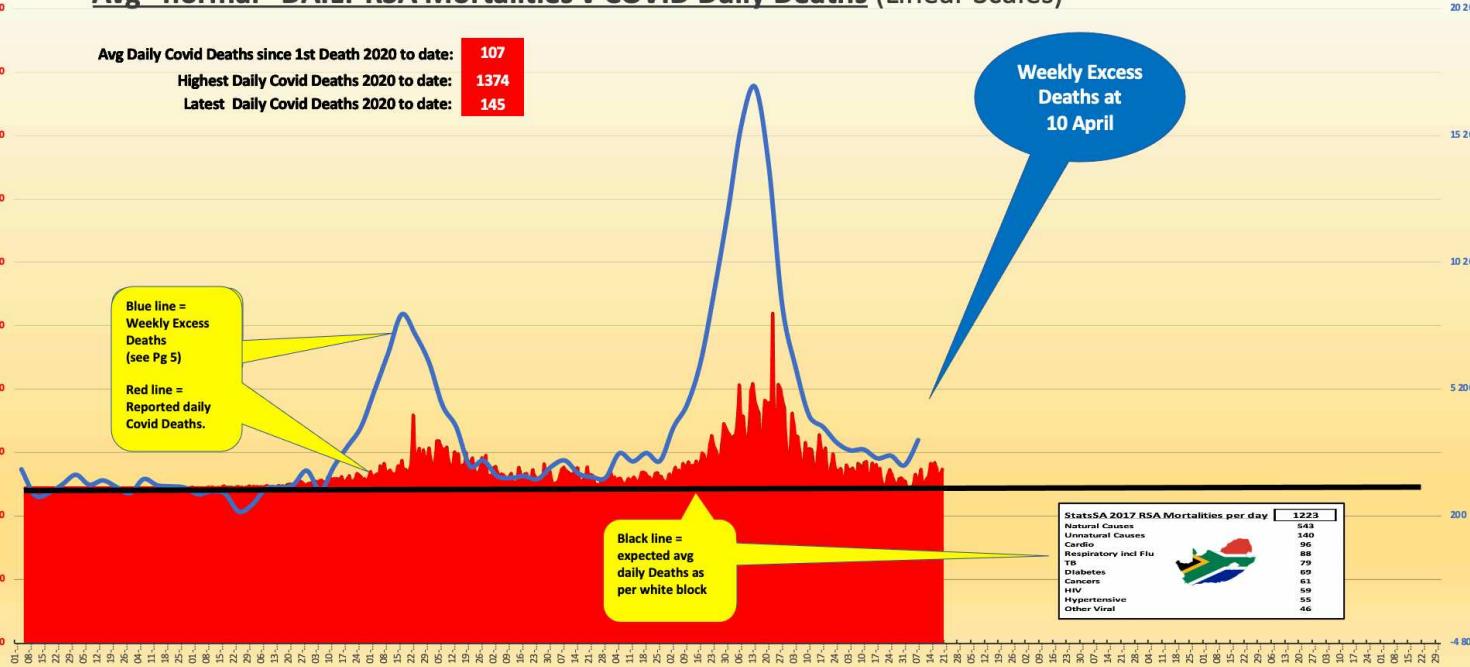
The two graphs WORLD (above) and RSA (below) attempt to put the number of Covid Deaths into some sort of perspective graphically.

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.

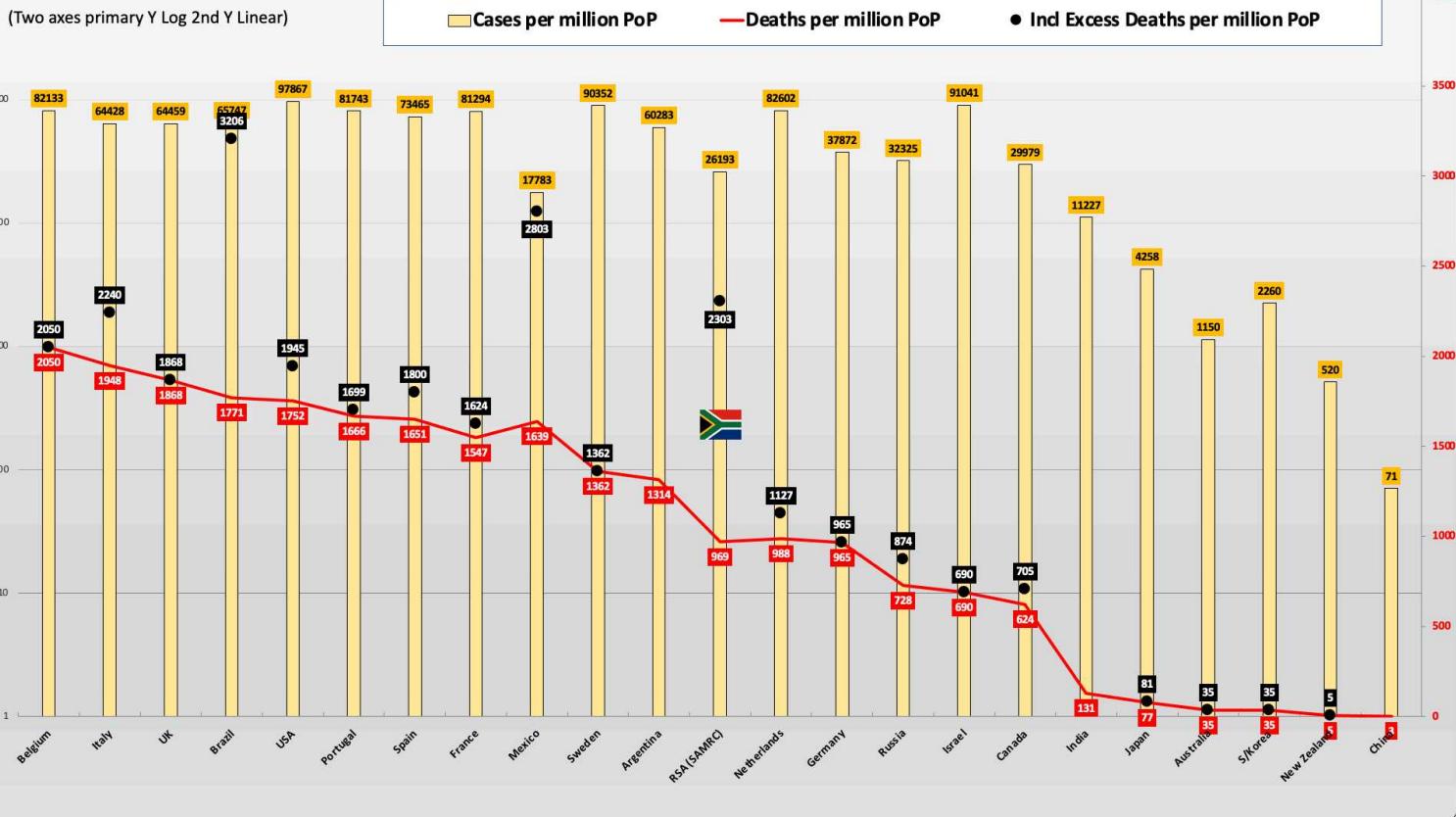
The BLUE line in the bottom RSA graph shows the SAMRC Excess Deaths weekly numbers.

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

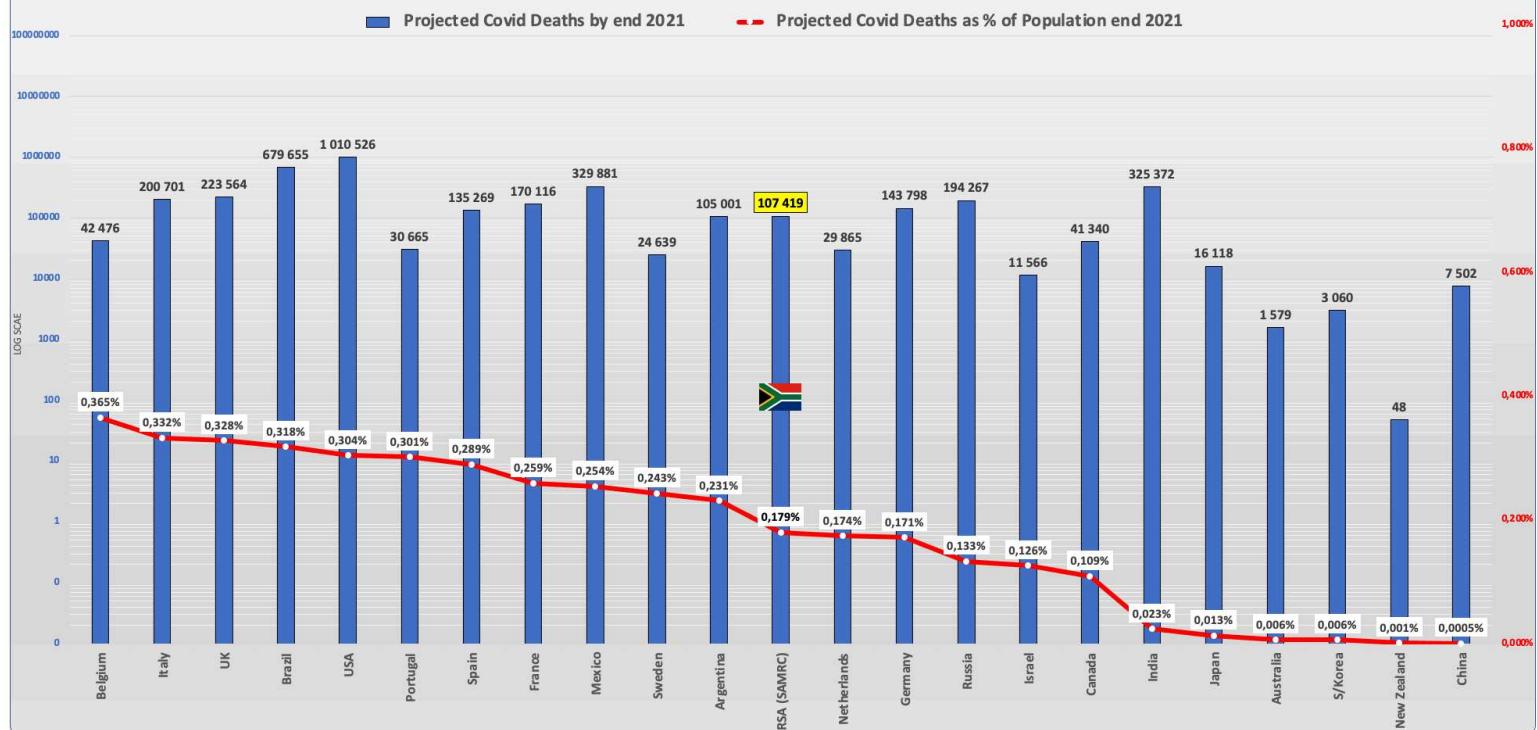


Selected Countries' Current Reported Cases, Reported Deaths & Excess Deaths

Page 4



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



Data as at: 20 April 2021

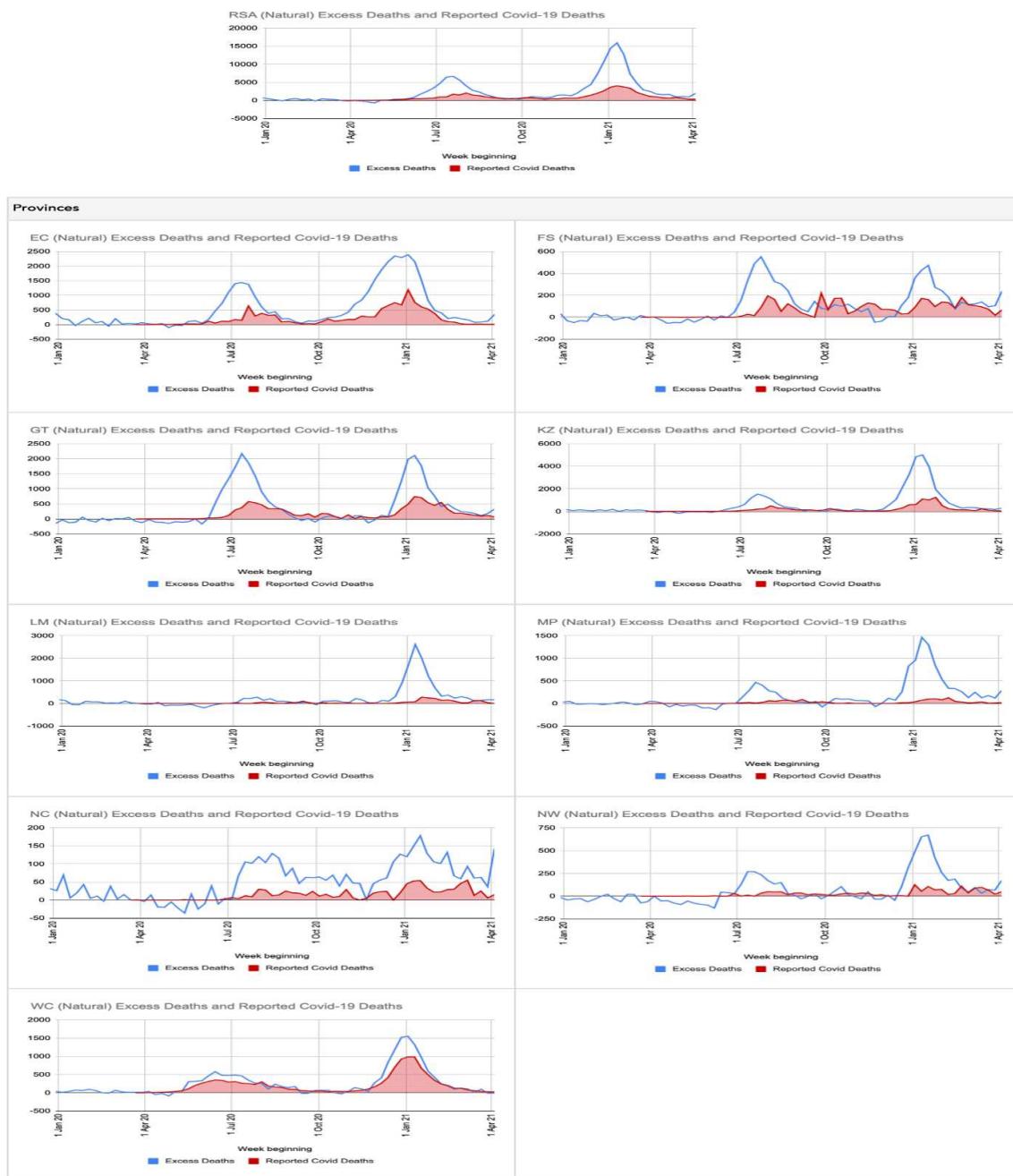
Unless otherwise indicated

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RSA Excess Deaths as per SA Medical Research Council

as at: 10 April 2021

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 the excess deaths are classified by week in which the death occurred; the reported COVID-19 deaths are classified by date 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.



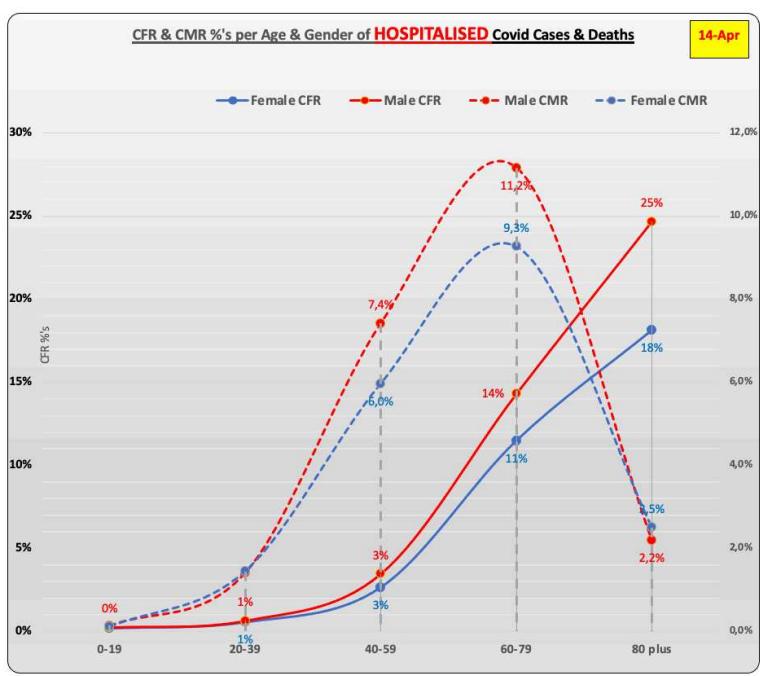
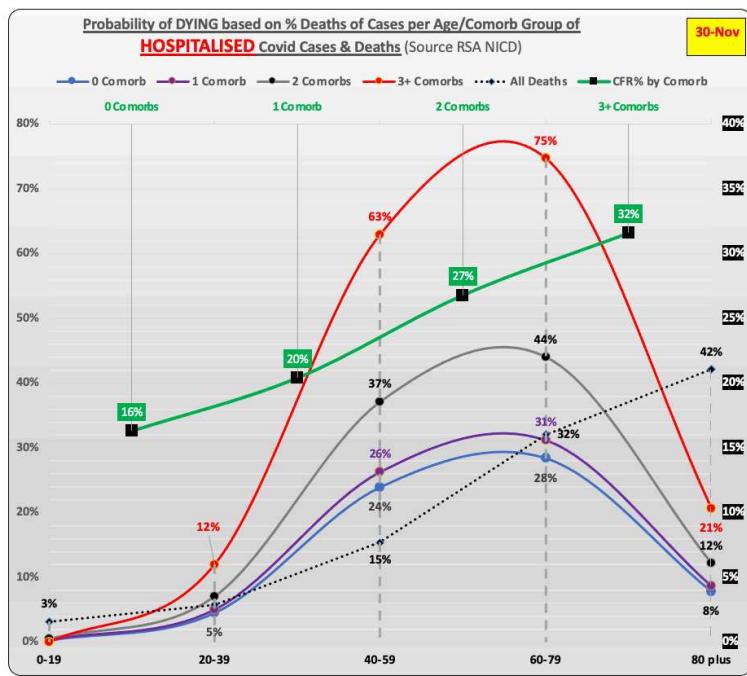
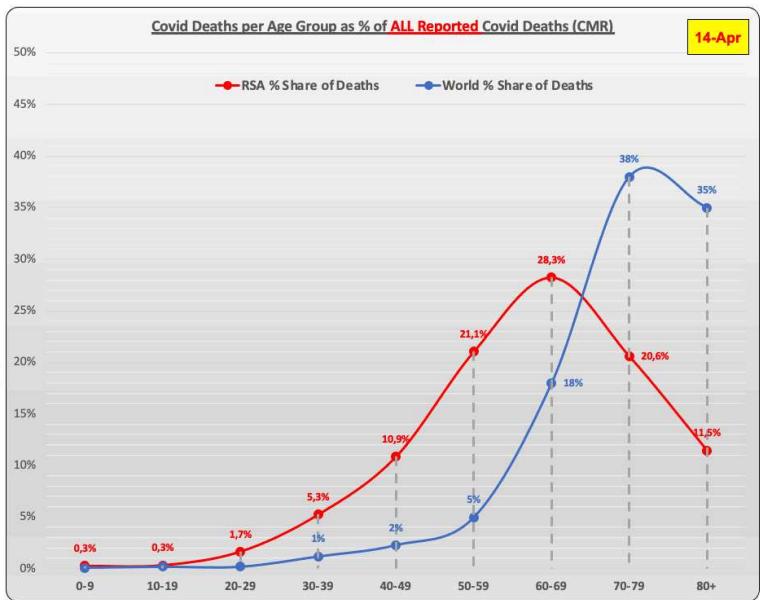
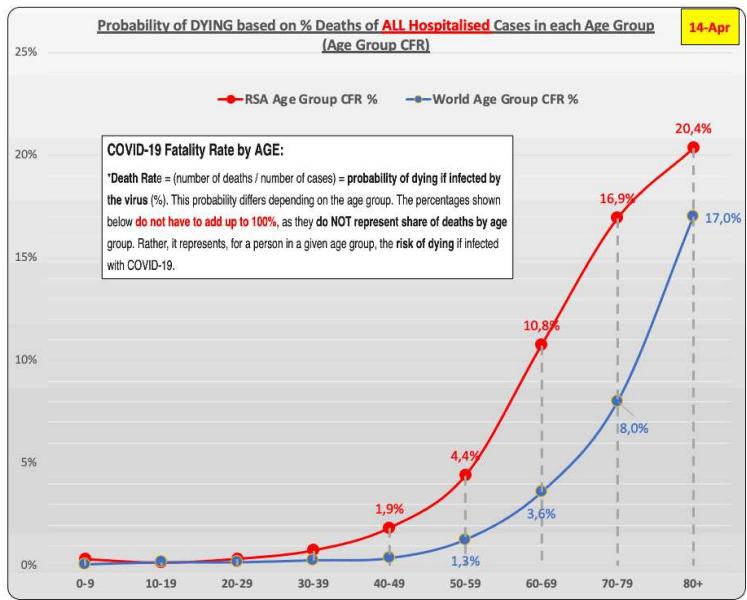
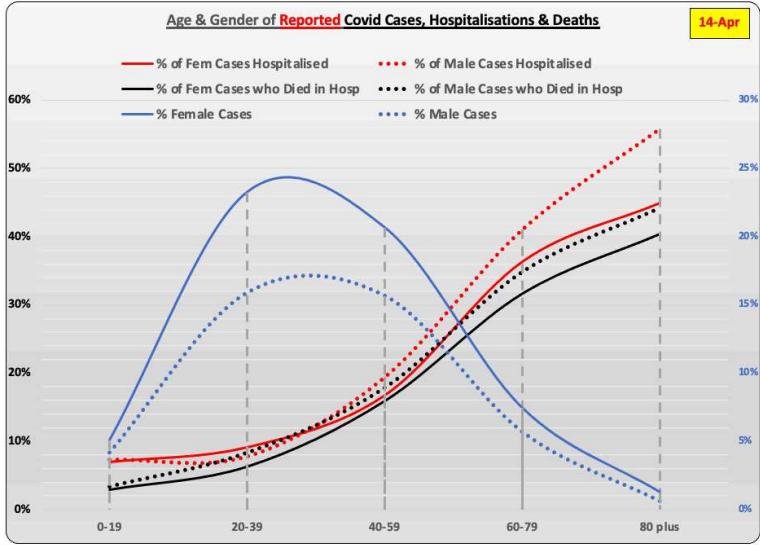
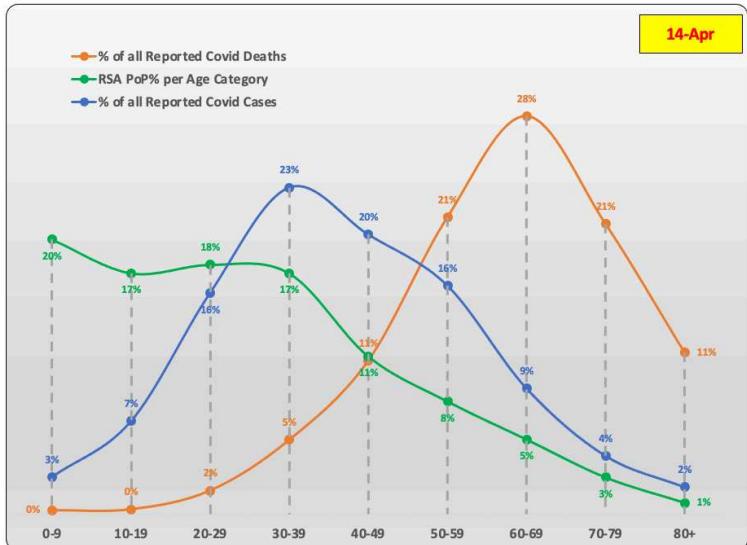
The red lines are weekly Covid deaths as reported by Dept of Health.

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, directly (home/rural deaths) and indirectly (limited access to hospitals due to fear of Covid or no space).

RSA Age & Gender Stats

Page 5.1



Data as at: As indicated per graph

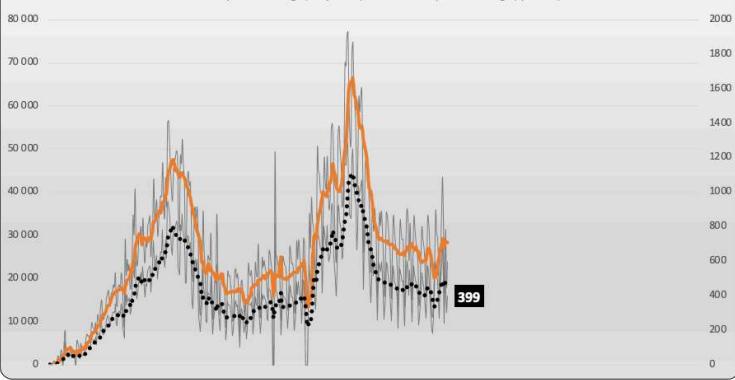
hdg 21 April 2021

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

Page 5.2

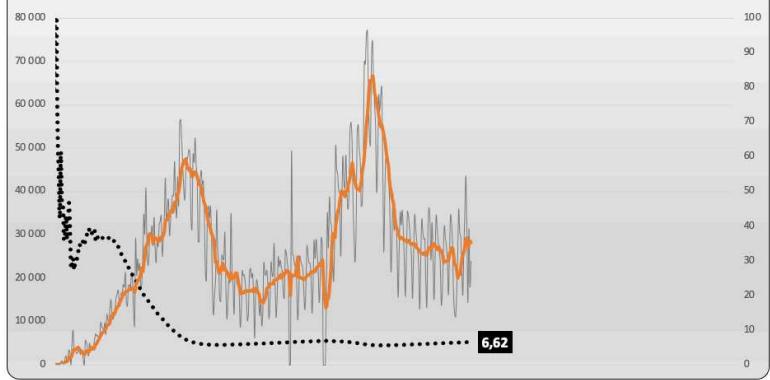
RSA: Daily Tests per million PoP

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



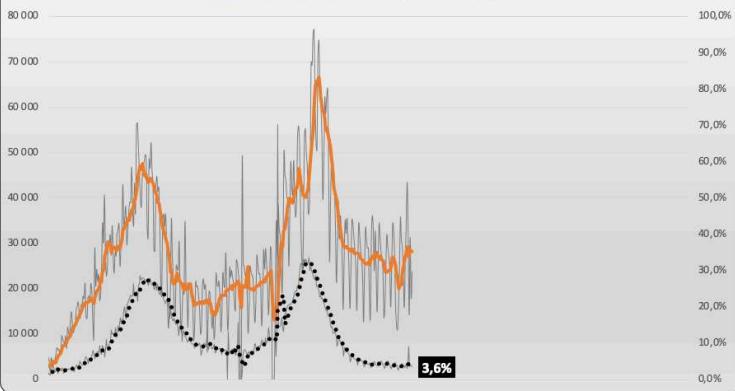
RSA: Daily Tests per +Case

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



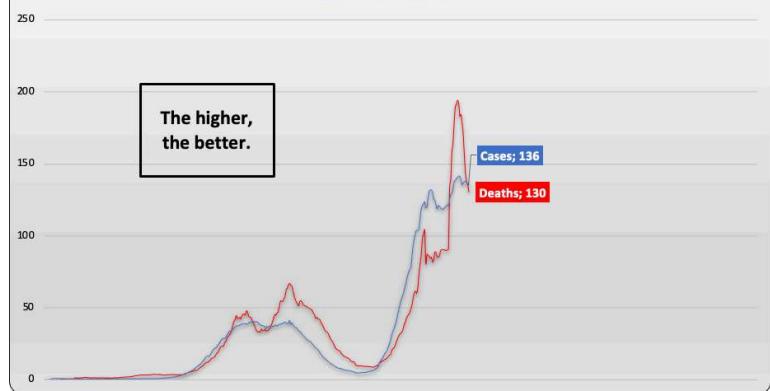
RSA: Daily Tests Positivity %

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

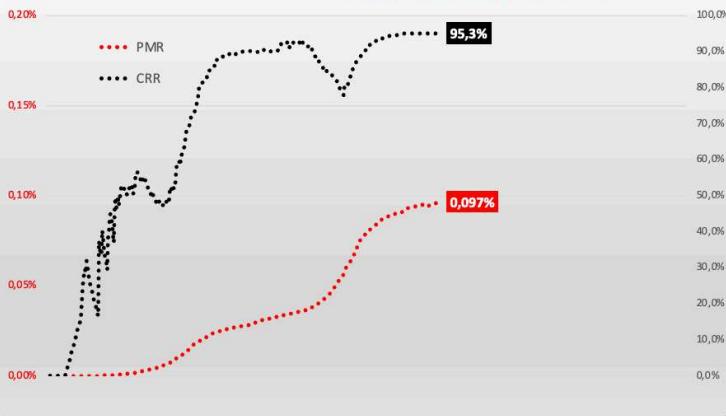


RSA Doubling Times in Days

— Deaths — Cases

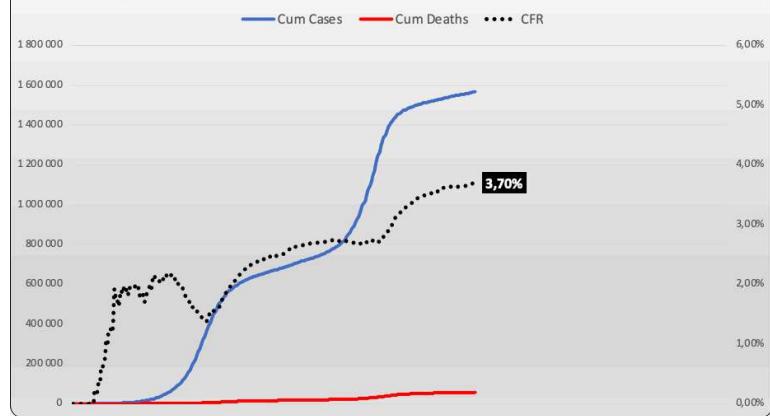


RSA: Case Recovery Rate & PoP Covid Mortality Rate



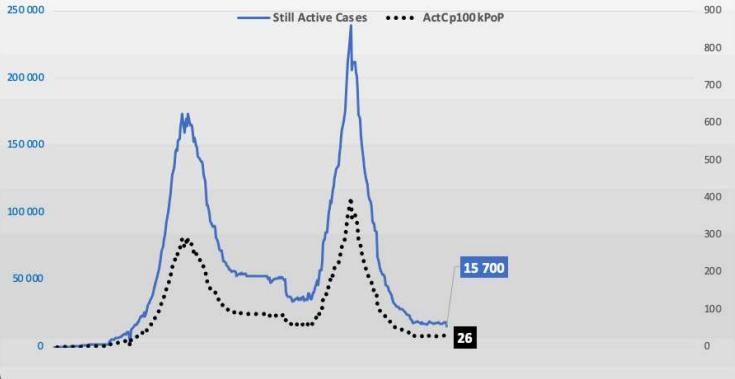
RSA: Covid Reported Deaths as % of Reported Cases (CFR)

— Cum Cases — Cum Deaths ••••• CFR



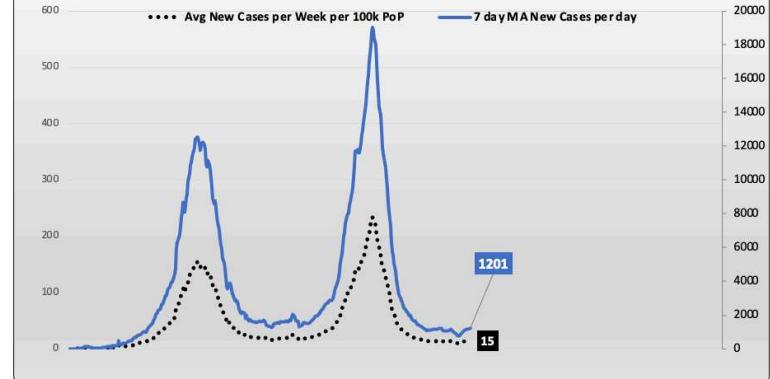
RSA: Still Active Reported Cases per 100k PoP

— 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:

20 April 2021

Unless otherwise indicated

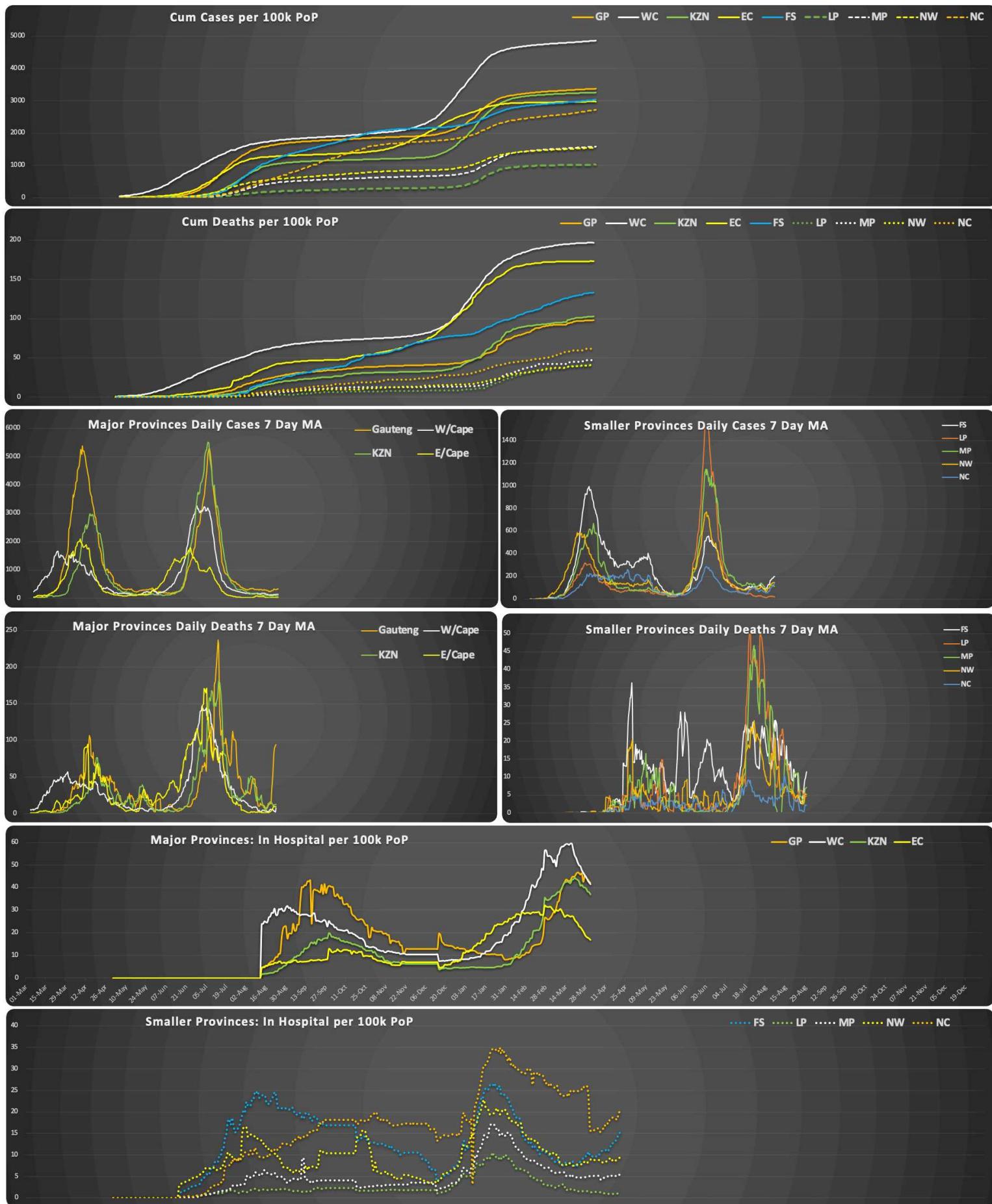
hdg

21 April 2021

RSA & Provinces Key Data Sets

All linear scales

Page 5.3

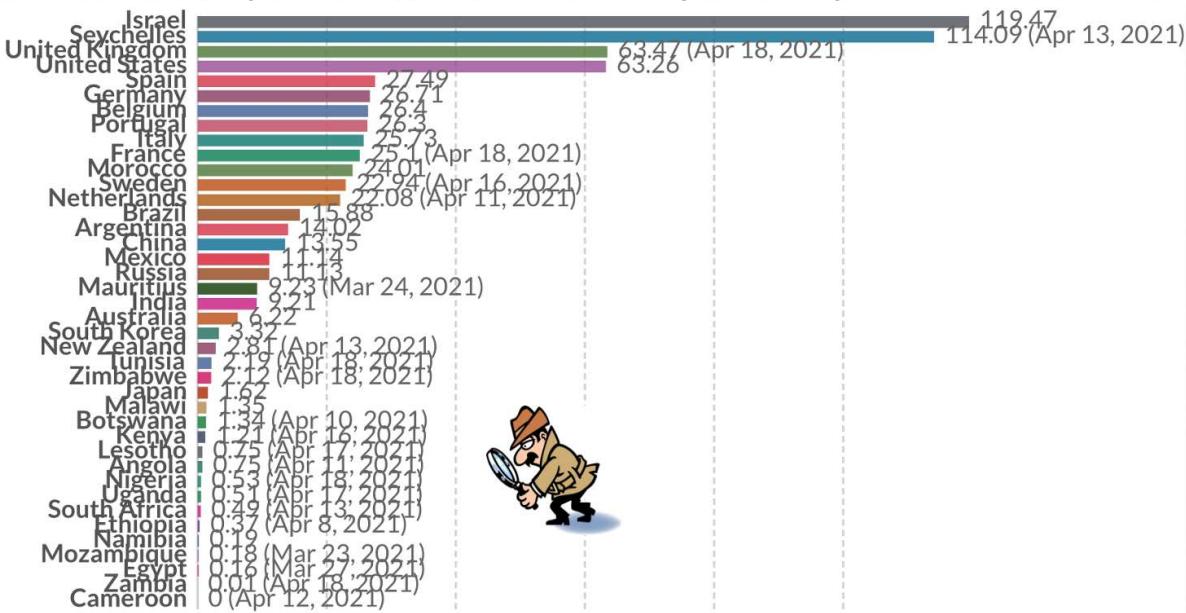


Vaccination Data

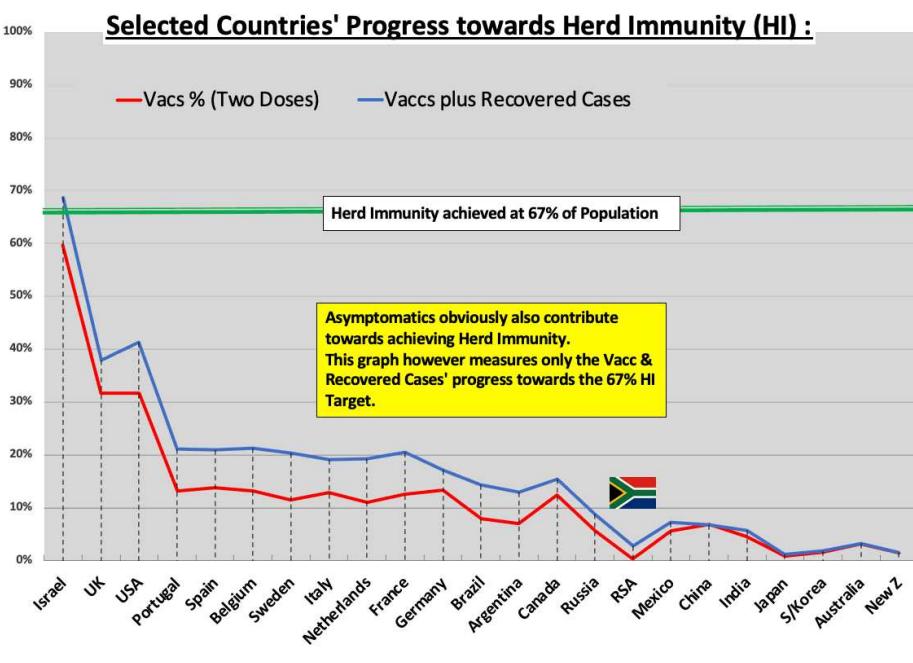
Page 6



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 ?

Vacs to date: 292 623 (single dose) Avg Vacs per day: 5 225

Herd Immunity Target: 41 000 000 approx 67% of RSA adult PoP revised down from 31m to 4.1m on 19 April 2021

21,5 Years



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

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21 April 2021

SA's vaccination plan for the next 10 months



Pfizer BioNTech requires two doses



Johnson & Johnson requires one dose



4 April 2021

About 270,000 health workers had been vaccinated with the one-dose Johnson & Johnson vaccine in the Sisonke trial. The study will cover 500,000 of the 1 to 1.25 million workers.

2021

Apr

May

Jul

Aug

Nov

Dec

Jan

Feb

May 2021

Phase two starts. People over 60 will get their turn for vaccinations. If you're over 60 and a member of Discovery Health, you'll be able to register for a jab from 1 May onwards. They're planning to do 50,000 vaccinations of high-risk people per day. Next will be people with comorbidities and other high-risk groups.

By July 2021

Minster of health Zweli Mkhize said another 900,000 Johnson & Johnson vaccines will arrive in May. In June another 900,000 will be delivered and a further 9 million in July. If all goes according to schedule, this means SA will have 11.8 million Johnson & Johnson jabs by the end of July.

February 2022

Target to have all adults vaccinated by February 2022, this is about 41 million people*

= Sisonke Trial

10 April 2021

The last 200,000 free Johnson & Johnson vaccines will arrive on 10 April as part of the Sisonke trial.

Second half of April 2021

1 million paid-for Johnson & Johnson vaccines will arrive in the second half of April. The health workers who hadn't been covered by the Sisonke trial, will be vaccinated first.

April - June

6.75 million two-dose Pfizer-BioNTech vaccines are expected to arrive between April and June. Exact dates are not known at this stage. 5.5 million of these have been ordered from Pfizer and 1.25 million will come via COVAX.

July - Early 2022

Another 19.2 million Johnson & Johnson and 13.25 million Pfizer doses are expected between July and early 2022.

November 2021

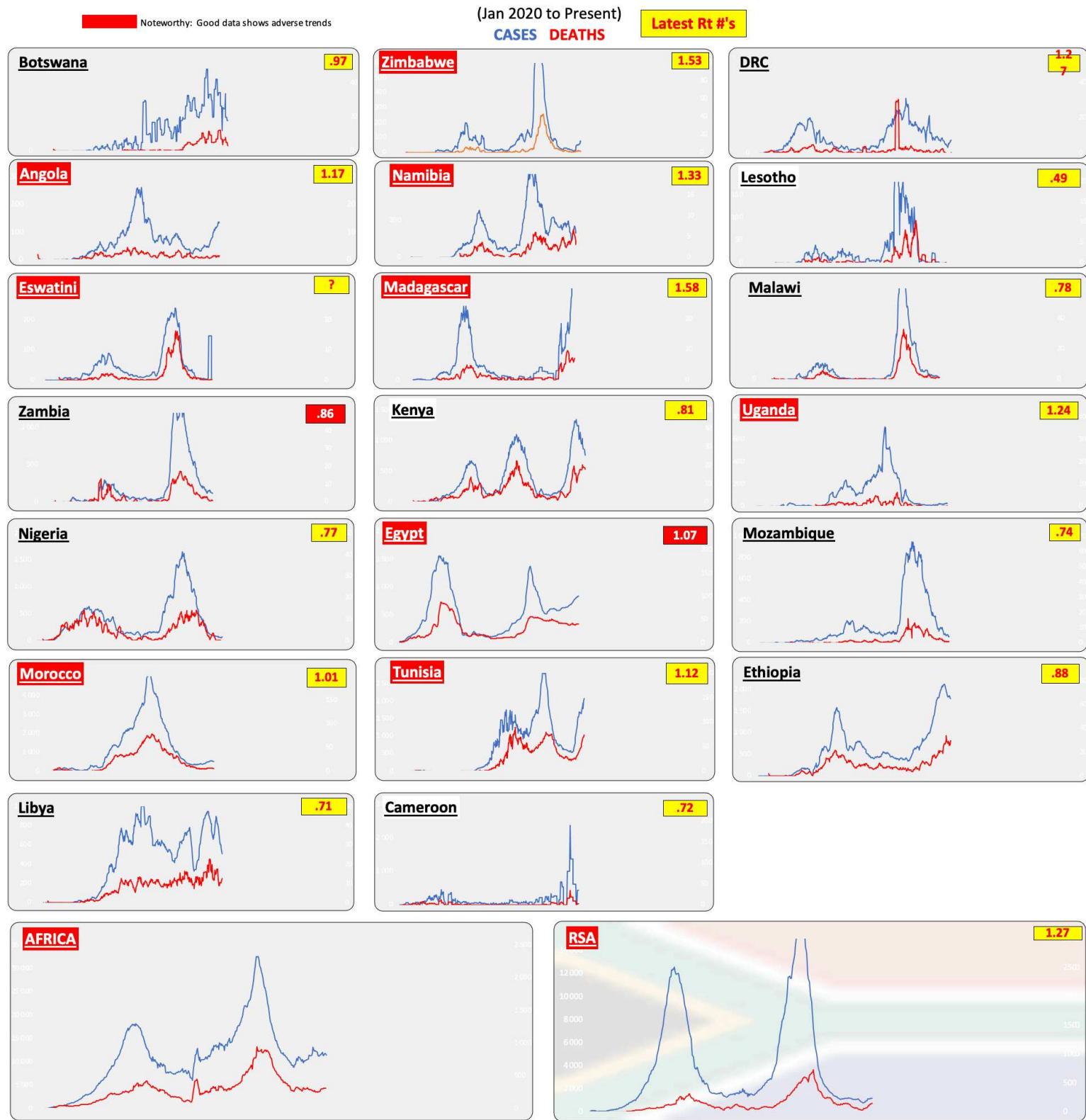
In November, everyone else (those who are 18 years and older) will get their turn to get vaccinated against COVID19.

Total Vaccines by Early 2022

Johnson & Johnson = 31.5 million
Pfizer-BioNTech = 20 million

Africa Daily Reported New Cases & Deaths 7 Day MA

Page 6.2



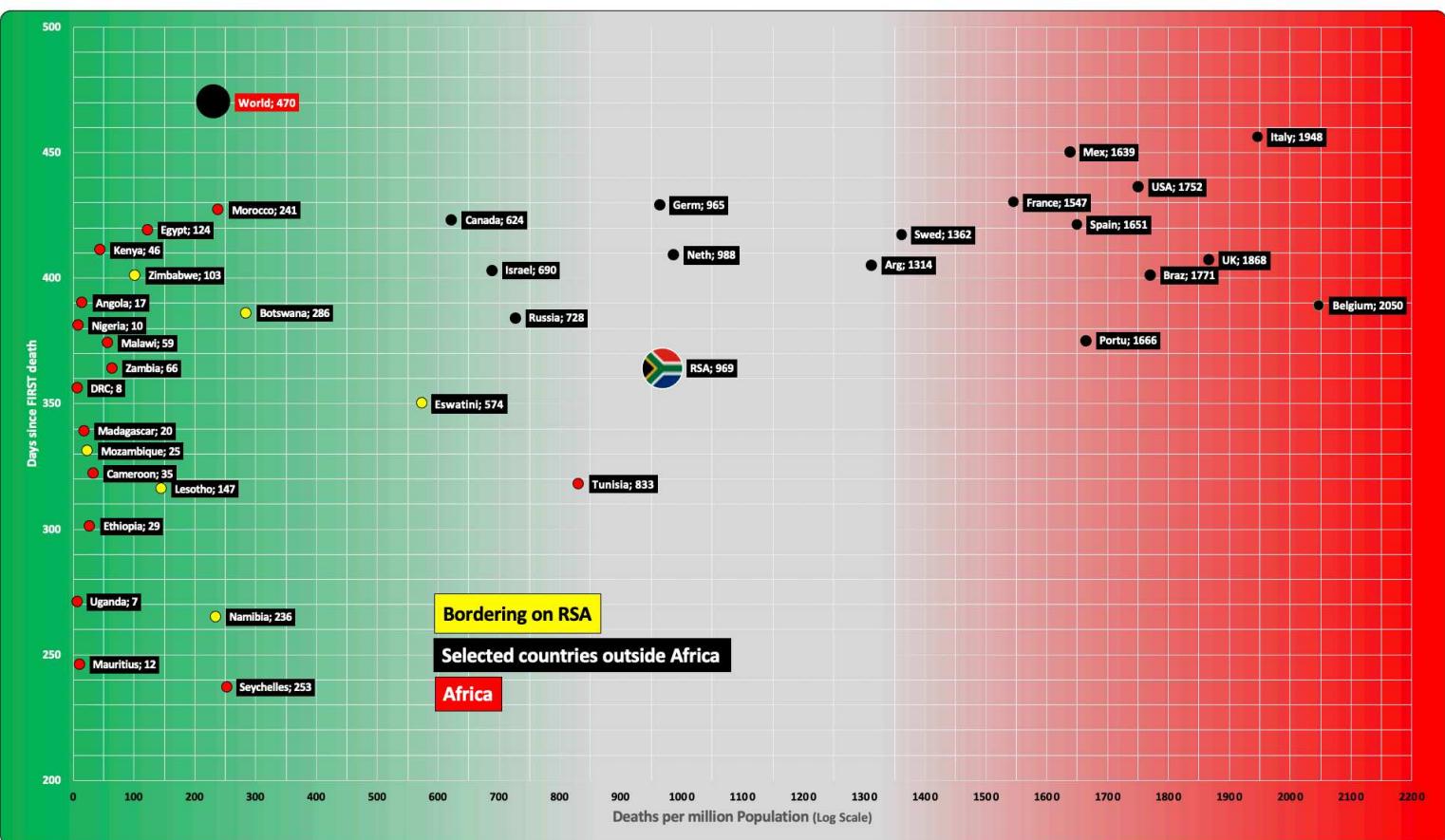
Data as at: 20 April 2021

Unless otherwise indicated

hdg 21 April 2021

Africa v Selected other Countries' **Reported** Deaths per mill PoP

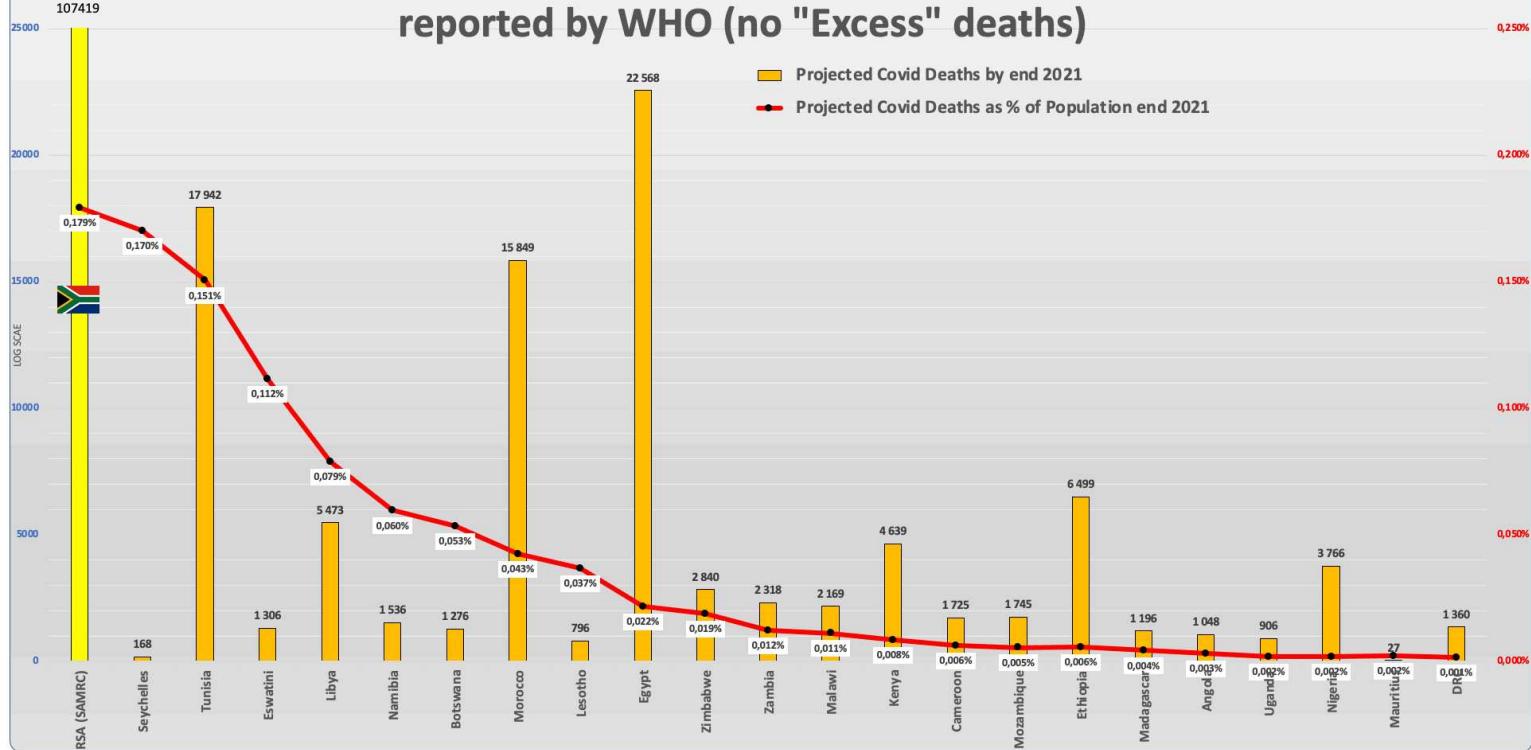
Page 6.3



Projected Deaths by end 2021 per country and % Deaths of Country

Populations at current officially reported Death Numbers as

reported by WHO (no "Excess" deaths)



Data as at: 20 April 2021

Unless otherwise indicated

hdg

21 April 2021

A smile is the best vaccine....



**After Corona is over. We have to
wear mask like this for 2 months to
get our ears back in place!**

