HarryG COVID-19 Dashboard

Cum +Cases	Daily Change
930 711	8 789

Active +Cases	+Cases per mill PoP	Deaths per mill PoP
109 458	15 693	421,1

Deaths Avg Age	Deaths Min Age	Deaths Max Age
61,8	0,2	105

RSA COVID-19 DASHBOARD

22 December 2020

Cum Deaths	⇧
24 977	218

	Cases	Deaths	CFR
Female :	58,0%	50,0%	2,02%
Male :	42,0%	50,0%	2,79%

17-Dec

% +Cases who Died (CFR)
2,68%

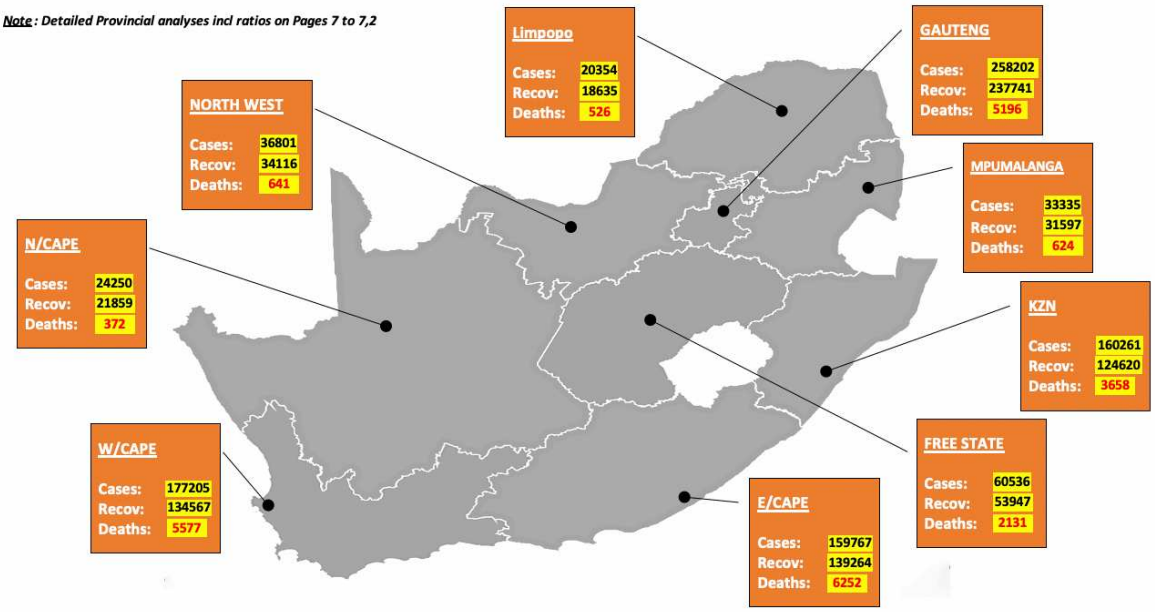
% of RSA PoP who Died (CMR)
0,0421%

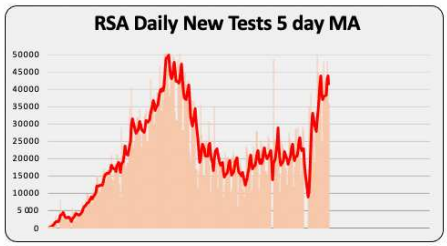
Deaths Median Age
62,9

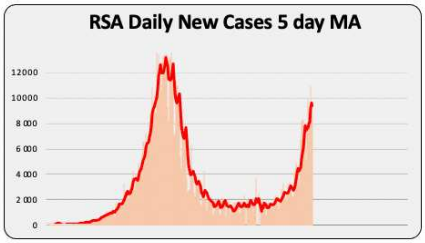
Cum Recoveries
796 346

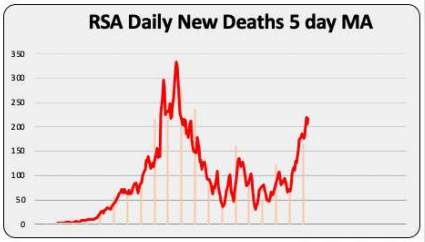
Cum Tests
6 176 683

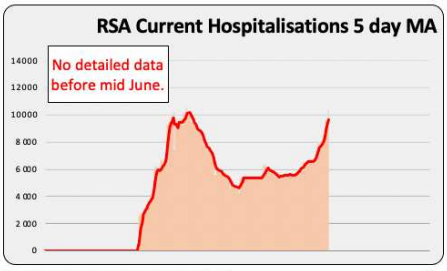
Note : Detailed Provincial analyses incl ratios on Pages 7 to 7,2

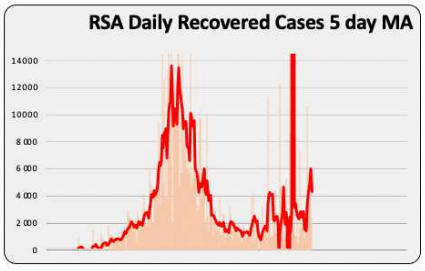


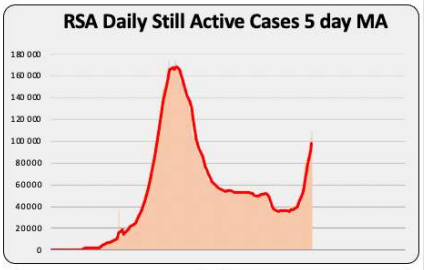


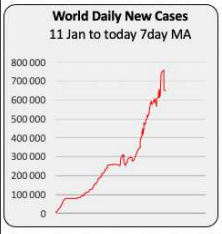


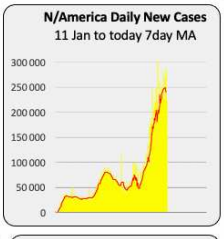


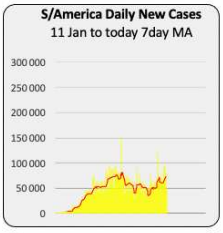


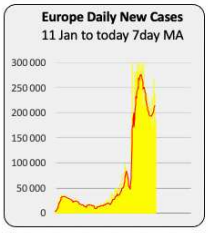


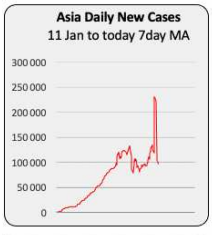


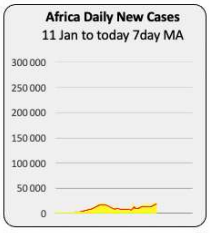


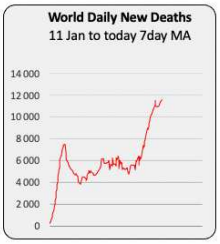


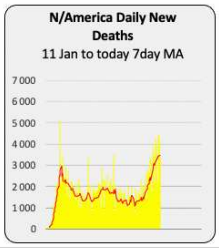


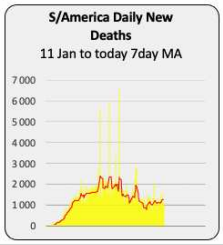


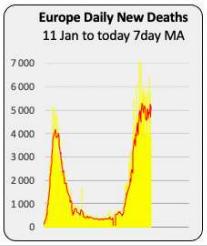


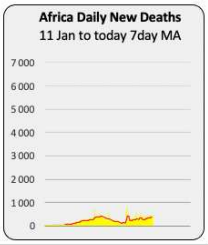




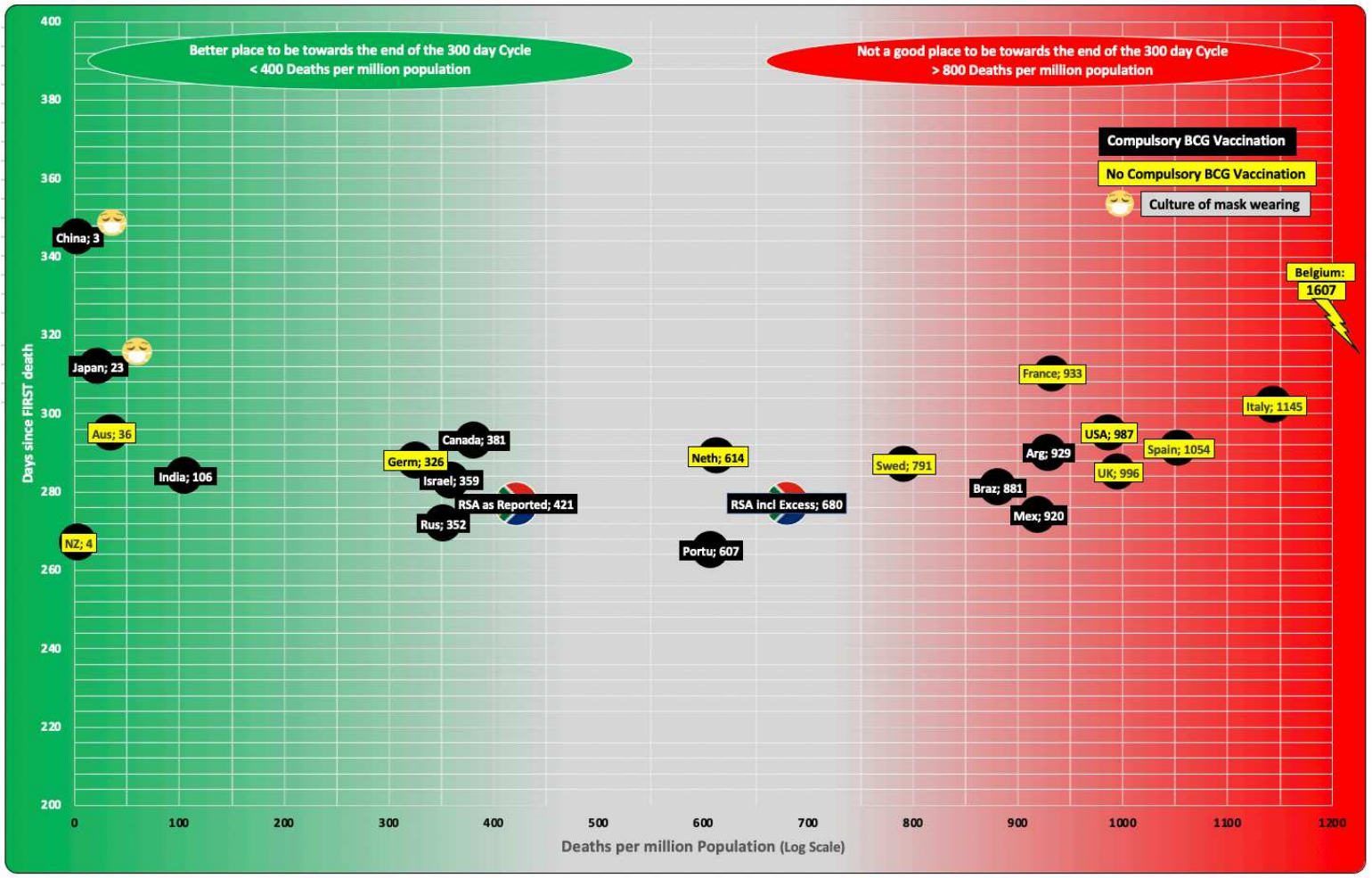


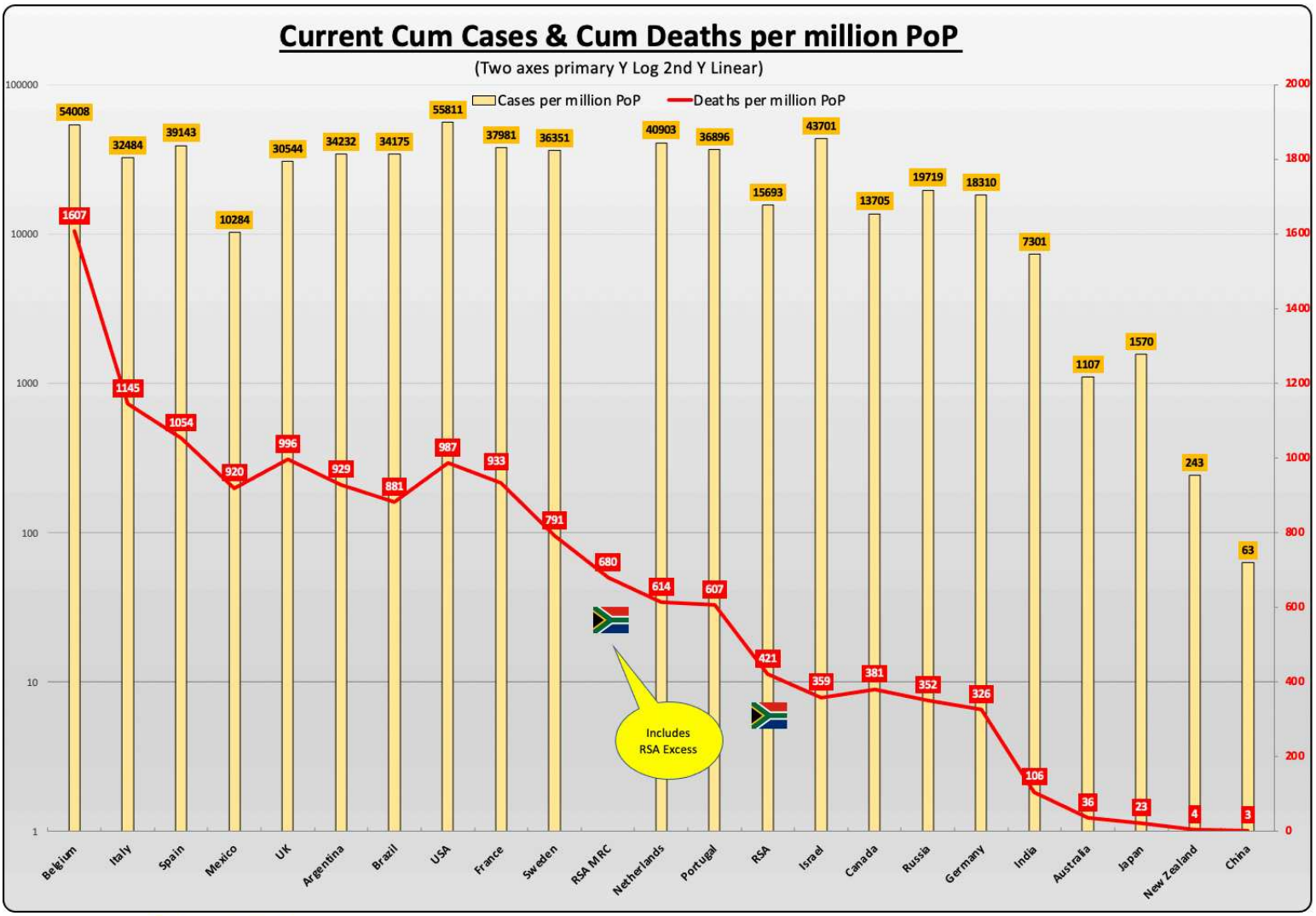






Covid Reported Deaths per million Population & Days since 1st Covid Death





Data as at: 21 December 2020 *Unless otherwise indicated*

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Daily Deaths Curves & Rate of Onset/next Wave "Inclinometers"

5 day MA Trendline from date of 1st death (all on Log Scale)

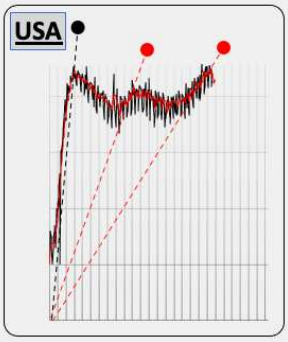
Peaked but spiking again

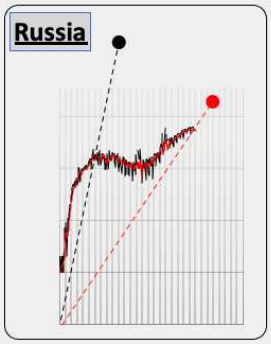
Passed peak but could rebound OR next wave

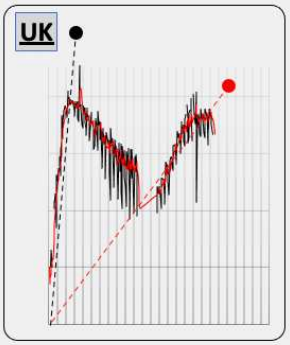
Well past peak, unlikely to rebound

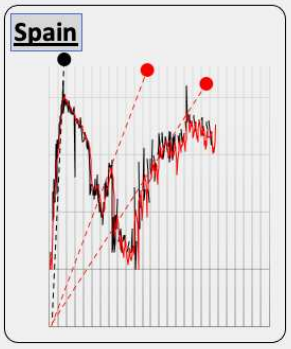
Onset/1st wave

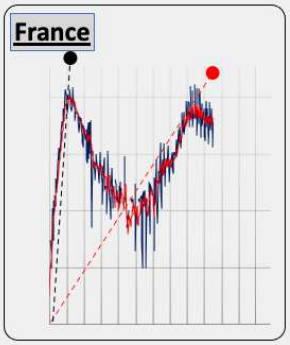
2nd & 3rd waves

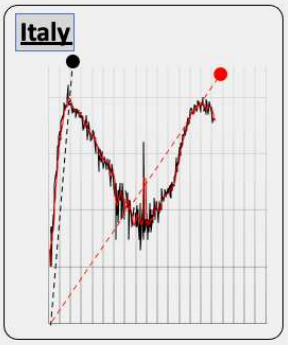


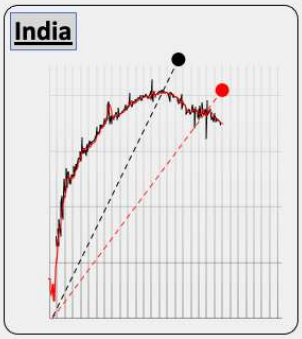


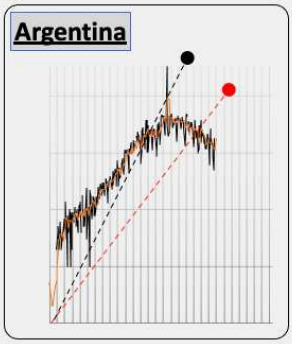


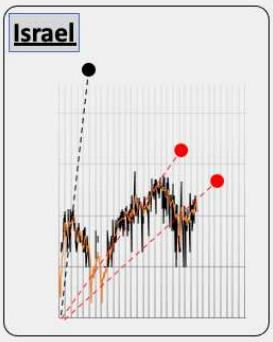


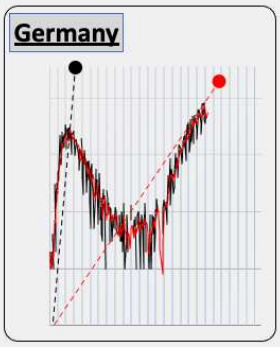


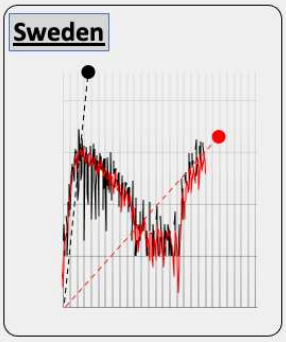


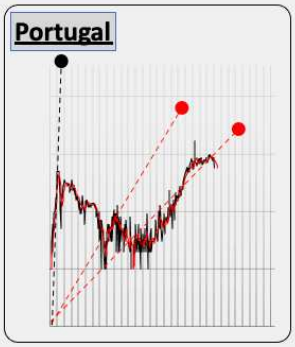


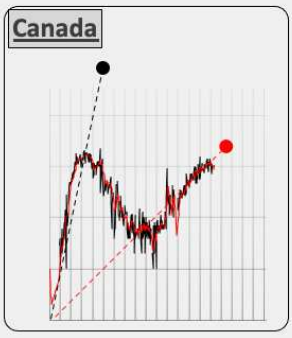


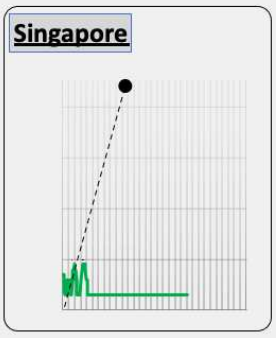


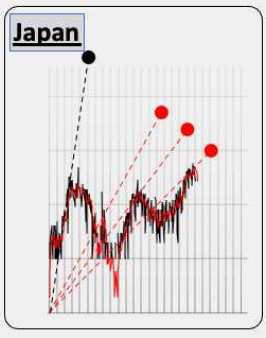


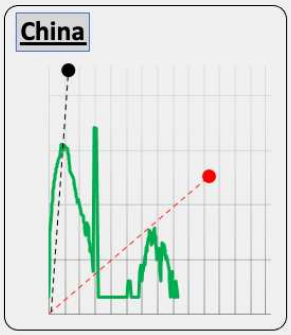


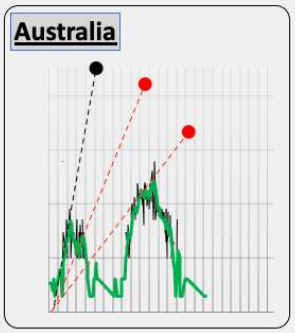


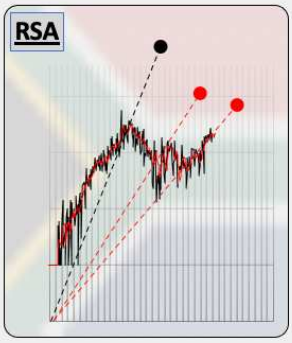


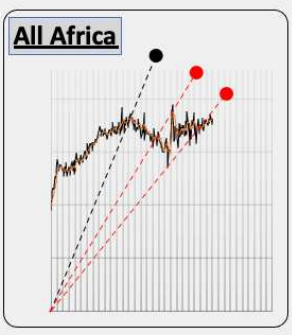


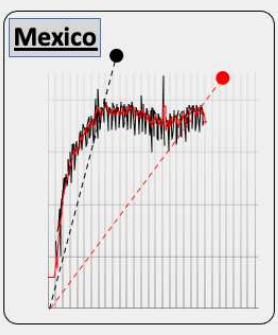


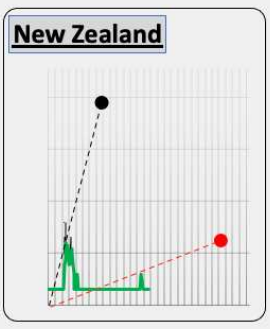












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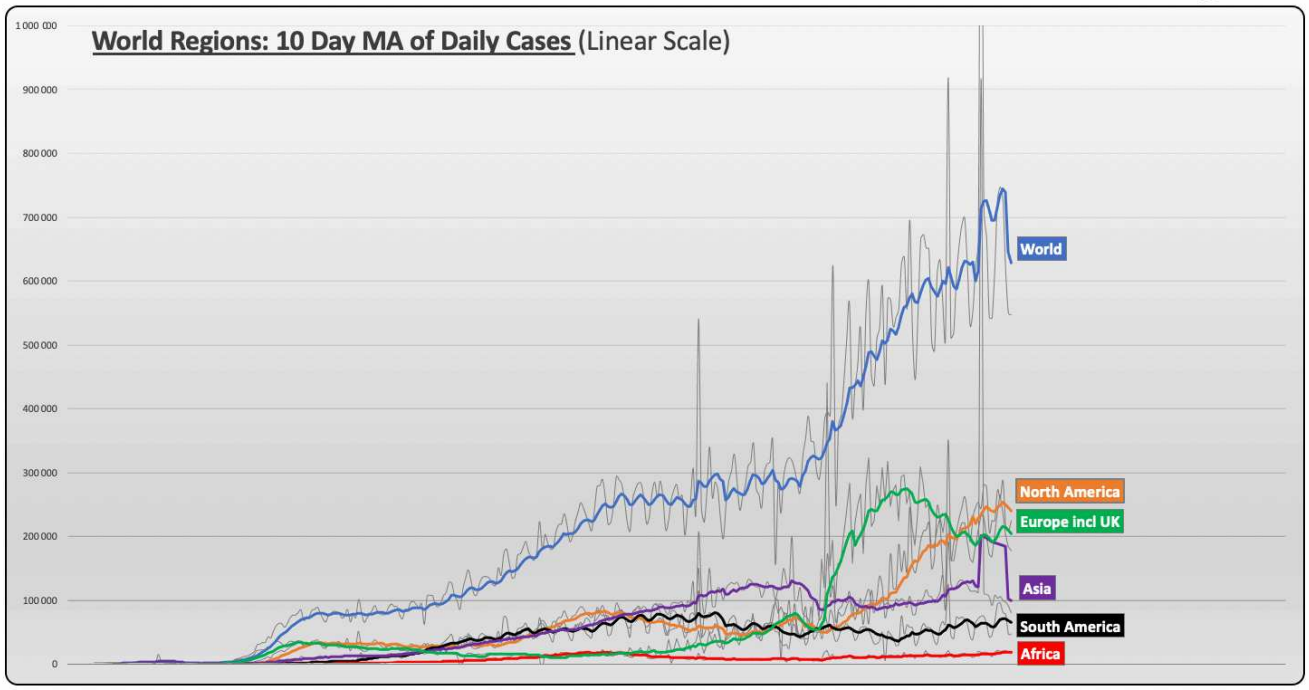
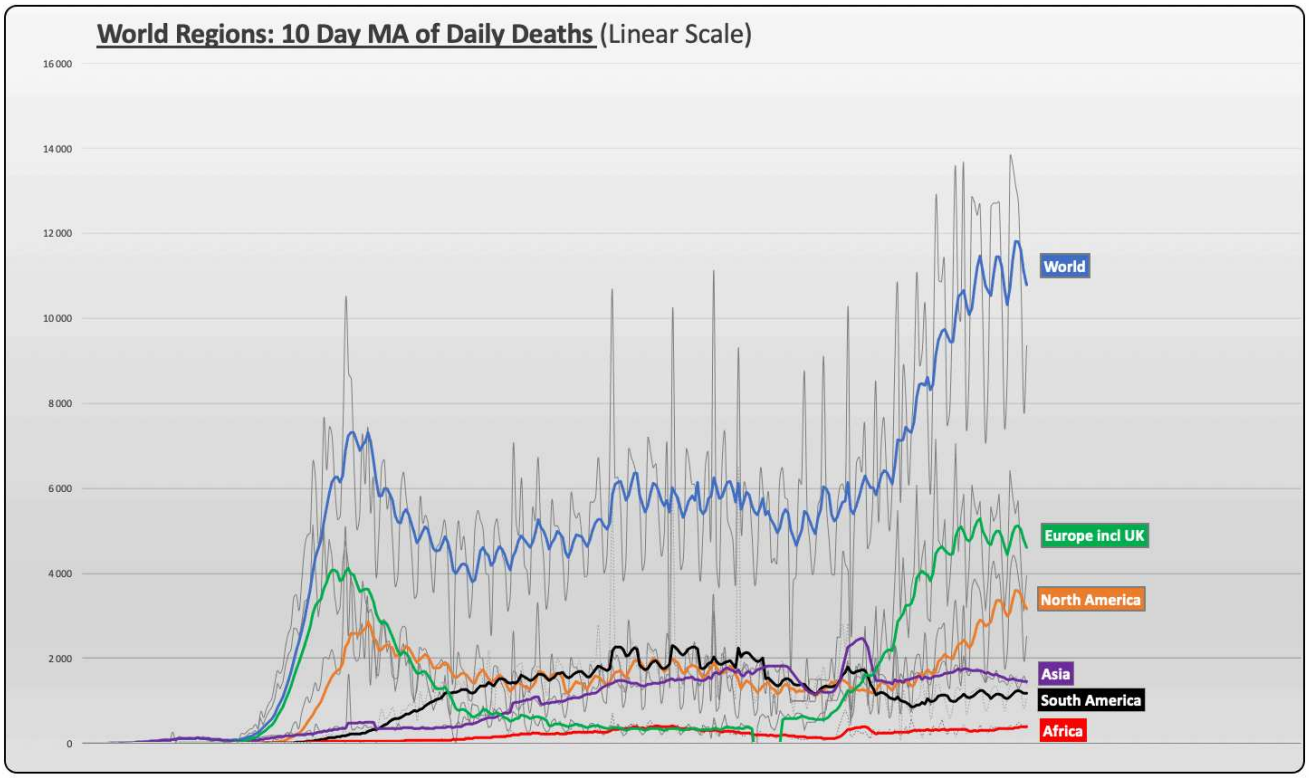
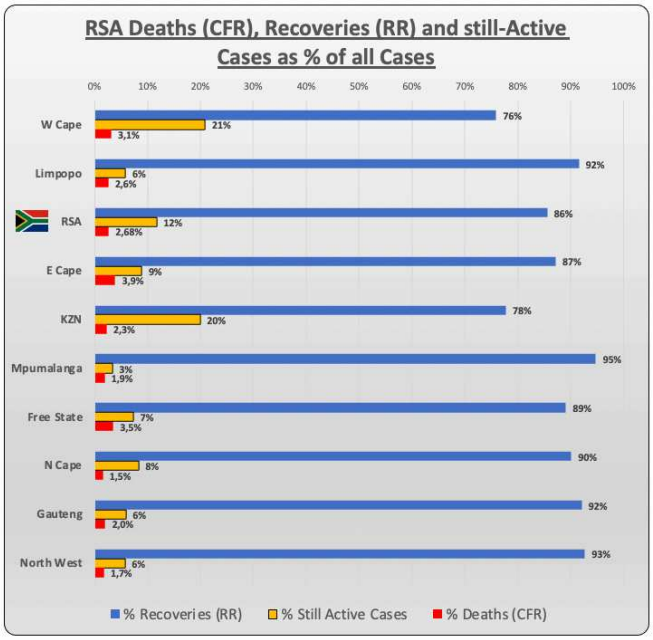
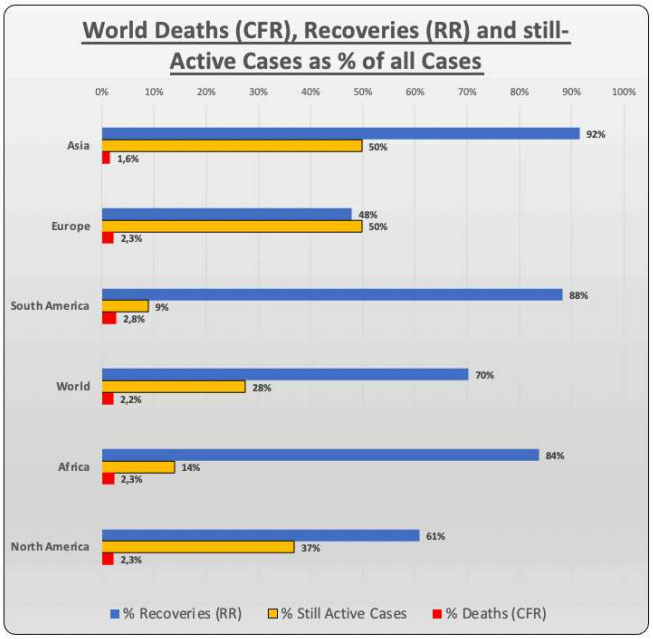
Data as at: 21 December 2020 *Unless otherwise indicated*

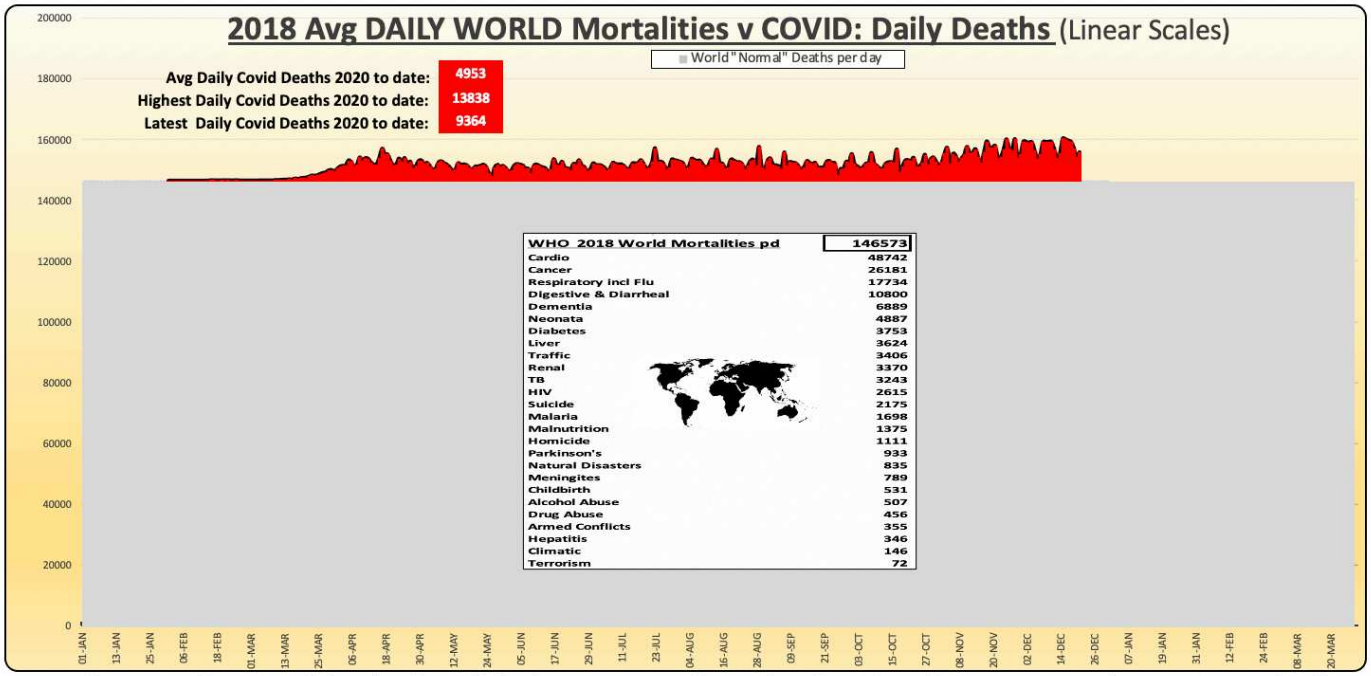
10 Day Moving Average Deaths & Cases by World Region



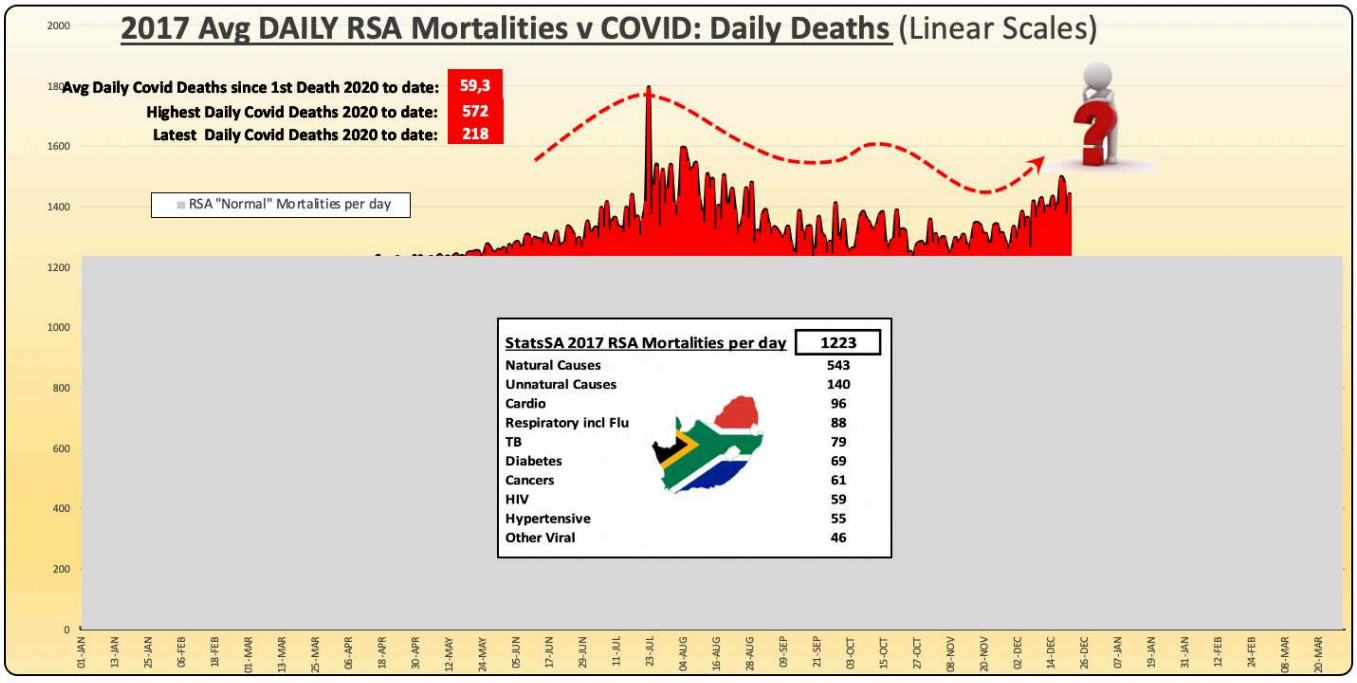


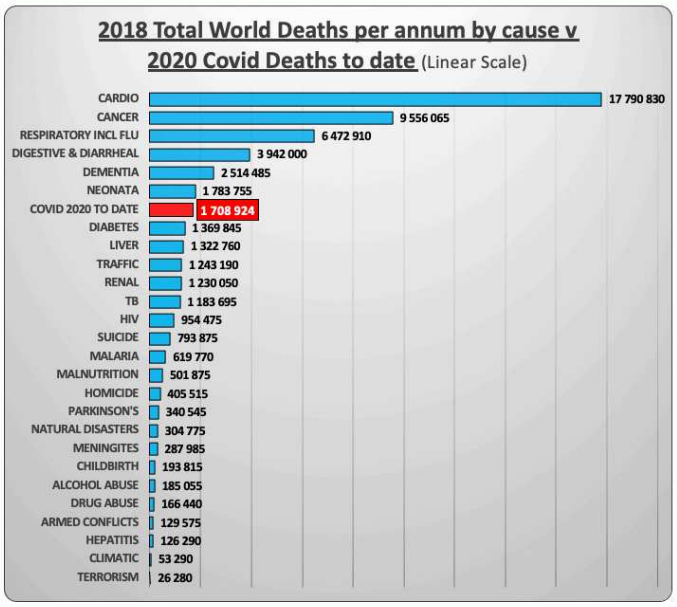


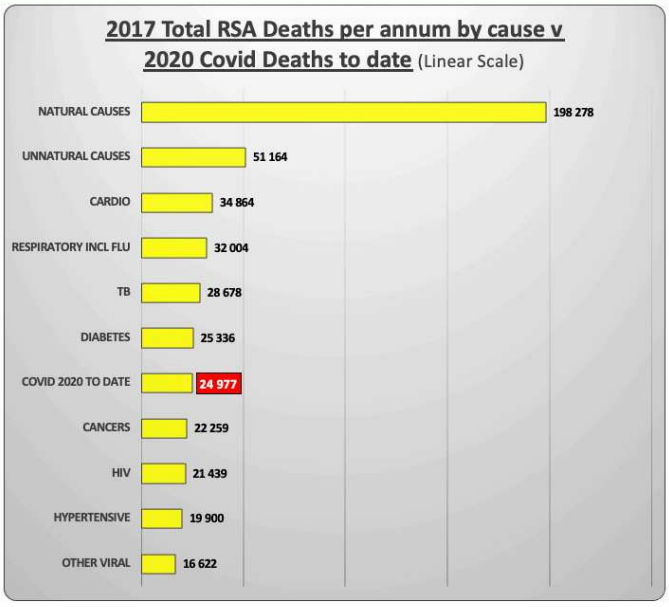




The two graphs WORLD (above) and RSA (below) attempt to put the number of Covid Deaths into some sort of perspective graphically.
The big GREY blocks are TOTAL Daily Avg Deaths from ALL causes over a full calendar year.
The RED area/lines on top of the Grey blocks are the INCREMENTAL Actual Daily Deaths due to Covid.
Obviously some of the Covid Deaths will "overlap" with the "normal" Deaths due to comorbidities.

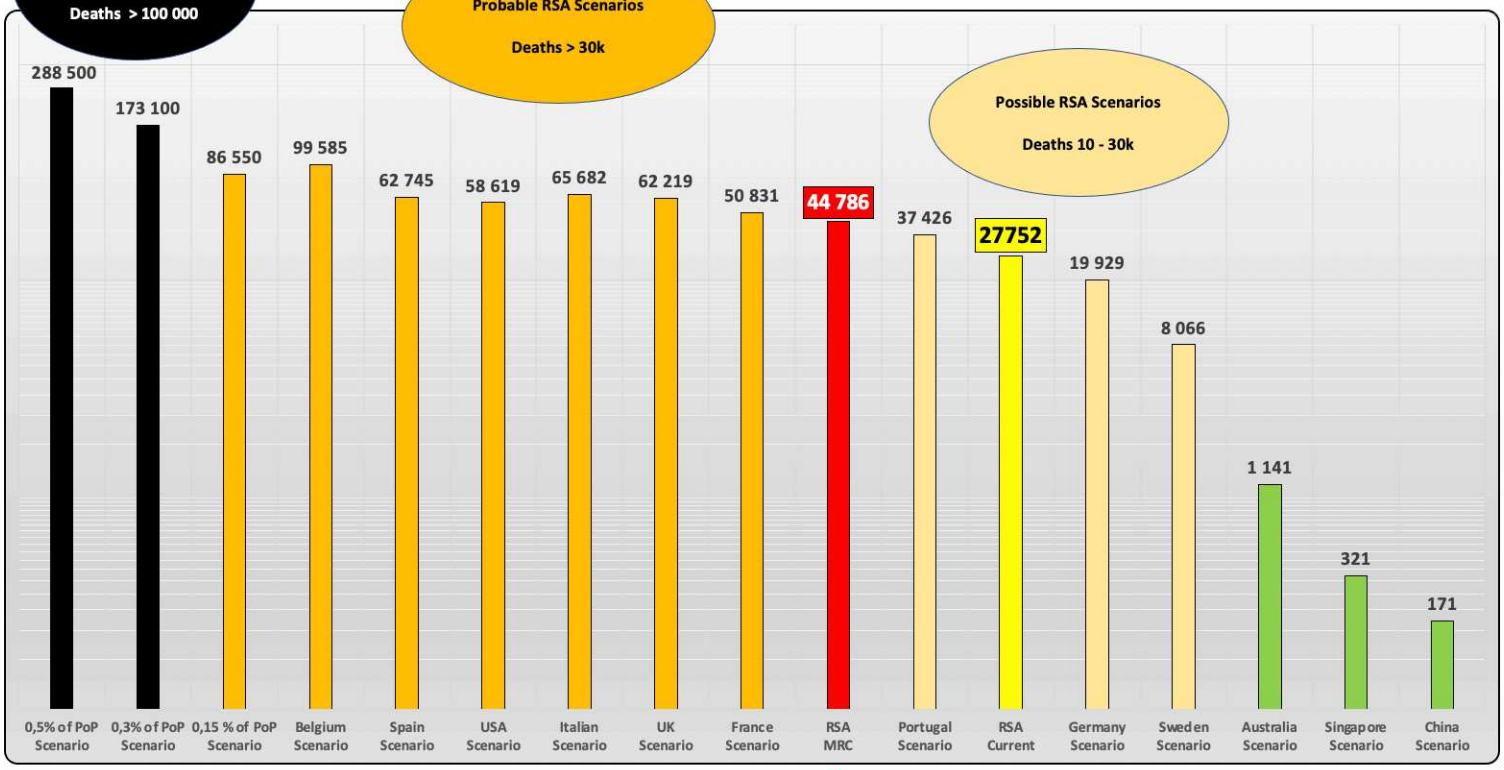






RSA Covid Mortality Scenarios & Projections for end Dec 2020 (300 day cycle)

15 Scenarios and 2 Projections (Log Scale)



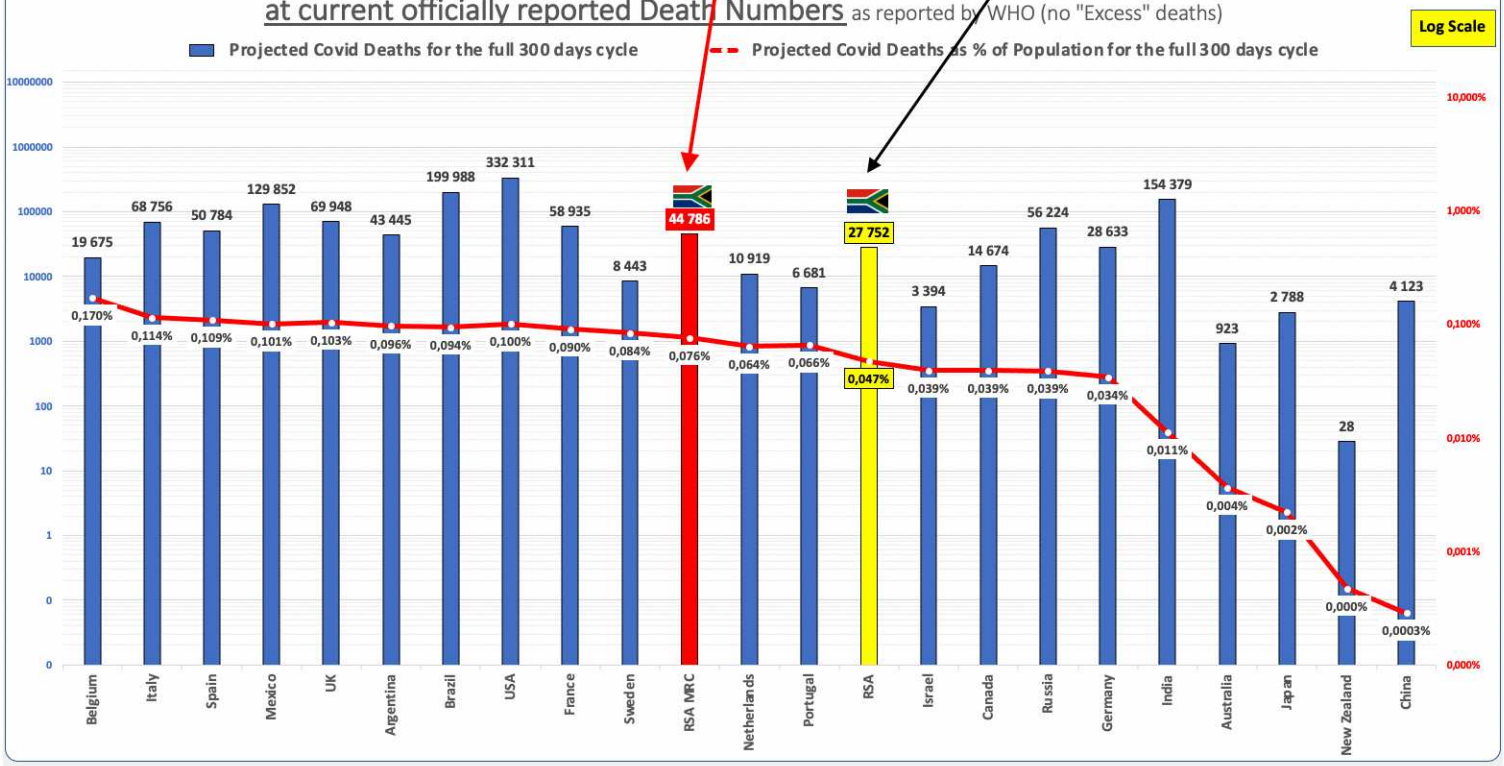
Key:

All Scenarios duly adjusted for population size and for the different timelines into the deemed 300 day pandemic cycle.

This projection uses the SA Medical Research Council data on "Excess Deaths". The assumption is that 90% of their reported Excess Deaths are probably due to Covid. The ratios are updated bi-weekly by the MRC but I apply these ratios to the official stats on a daily basis for this projection.

This number is simply the avg daily Deaths as reported to date x 300 (deemed cycle).

Projected Deaths by end Dec 2020 per country and % Deaths per Country Populations at current officially reported Death Numbers as reported by WHO (no "Excess" deaths)



Note: Above Mortality %'s are overall projected mortality of the populations (PMR), NOT deaths of only those infected (CFR).

Data as at: 21 December 2020 *Unless otherwise indicated*

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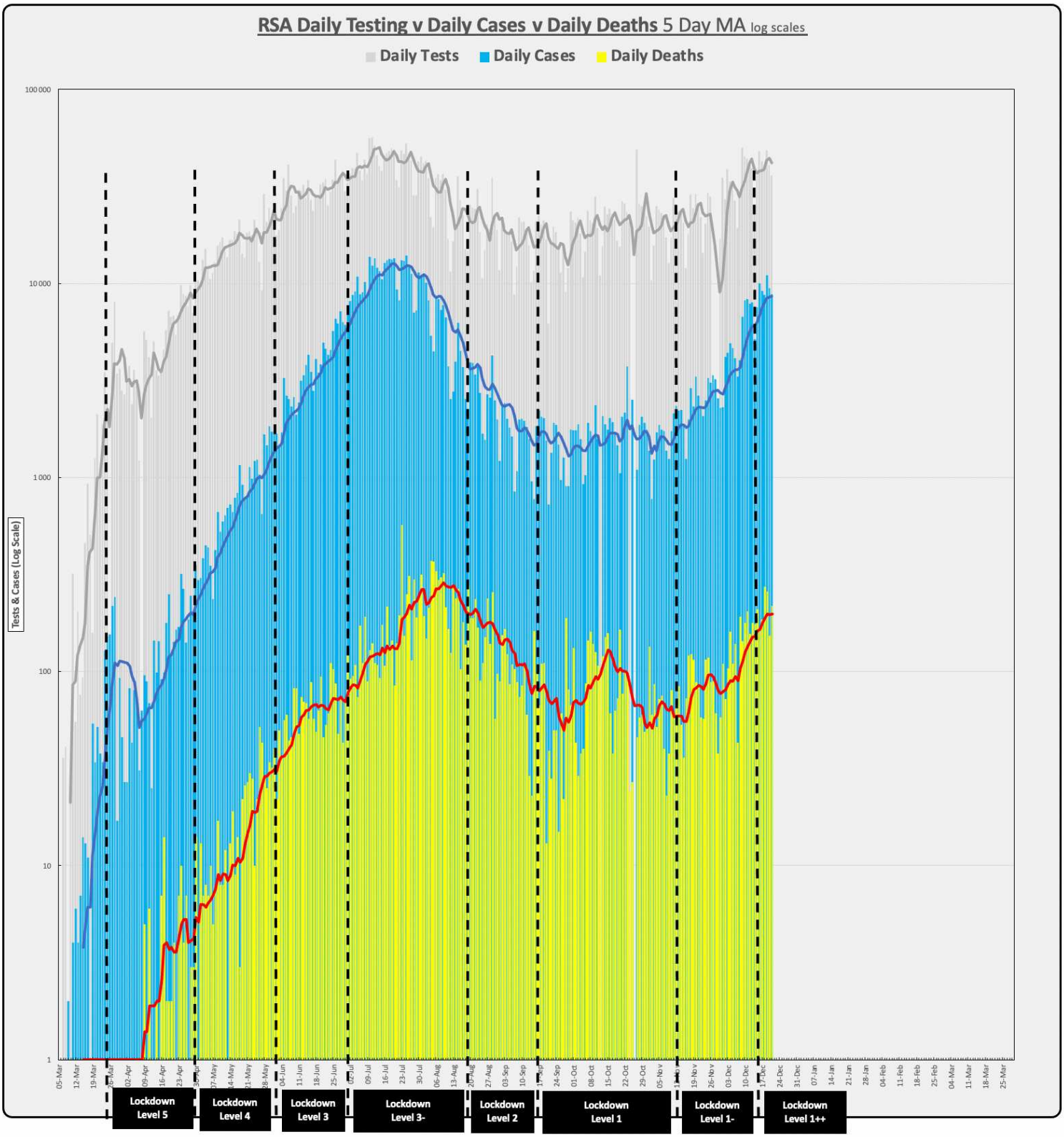

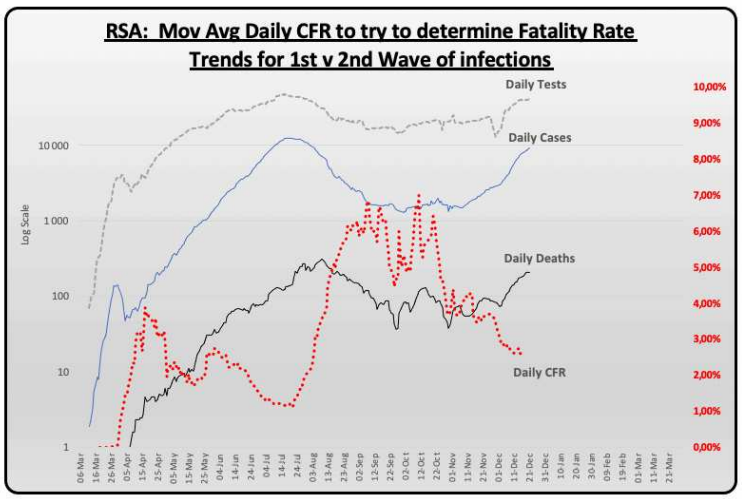

Data as at: 21 December 2020 *Unless otherwise indicated*

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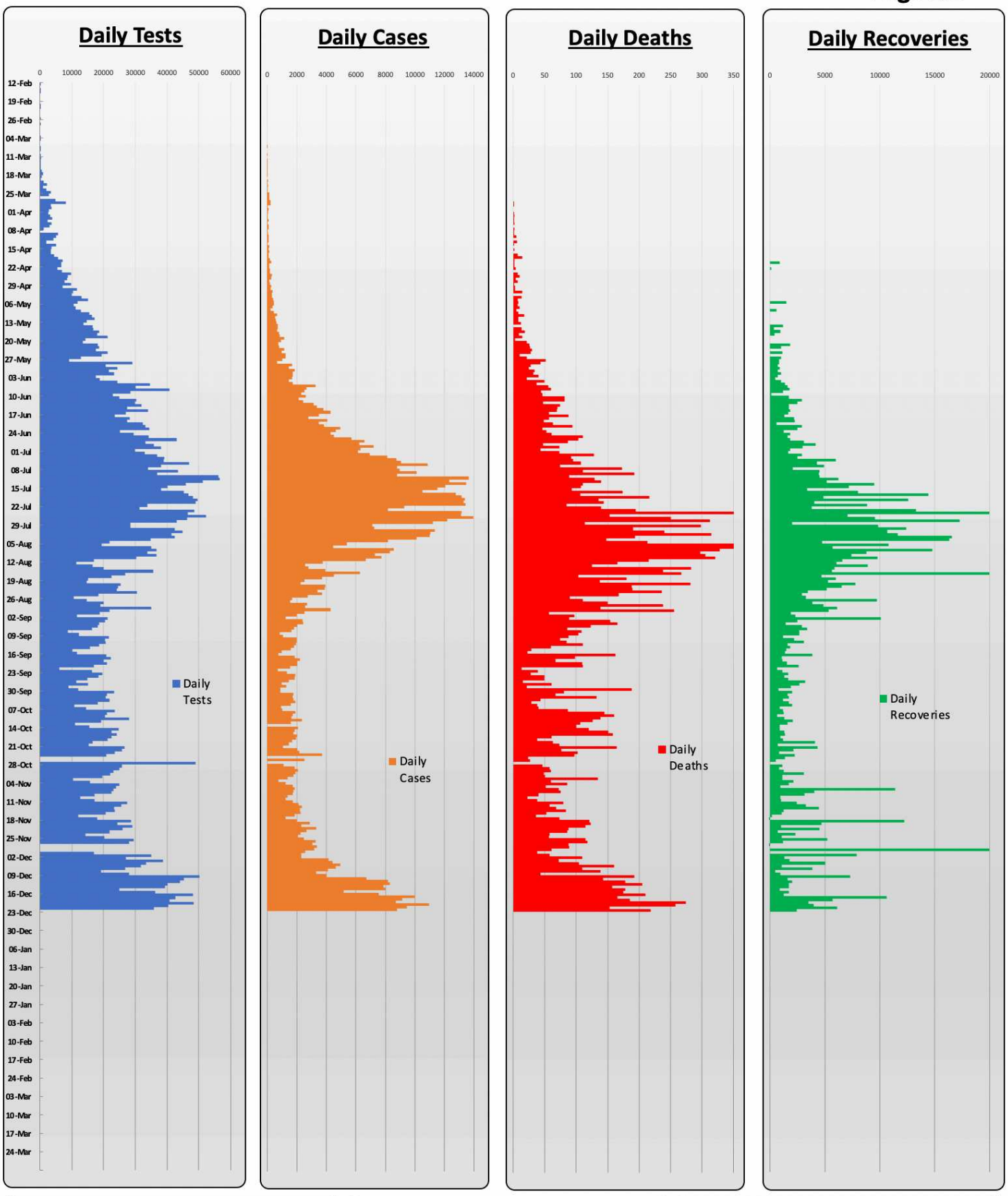
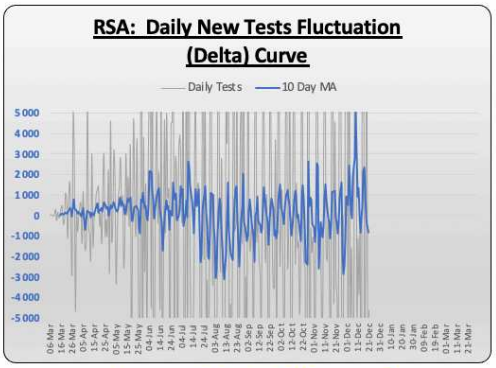
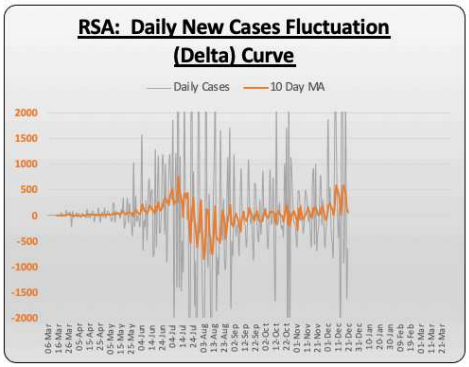
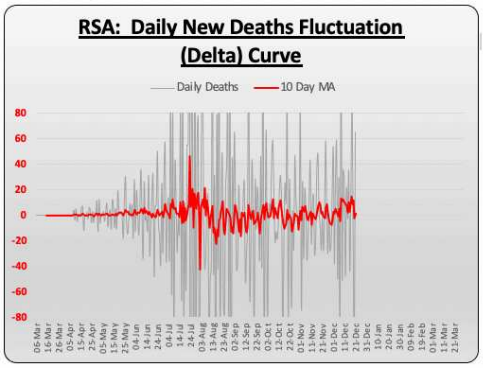
RSA Daily Raw Data Trackers



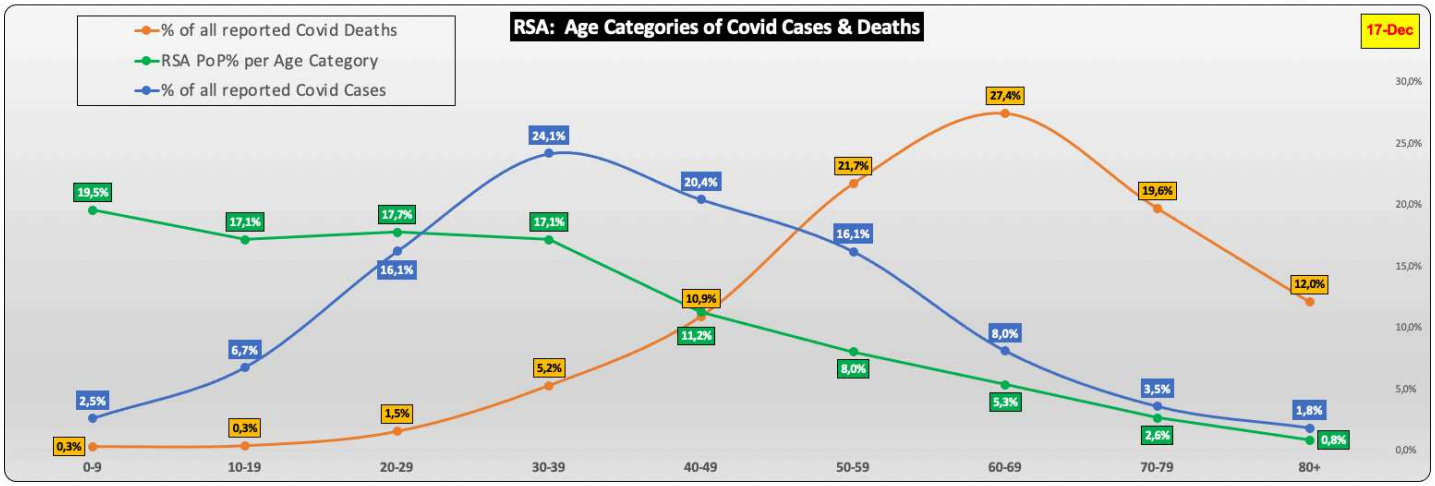


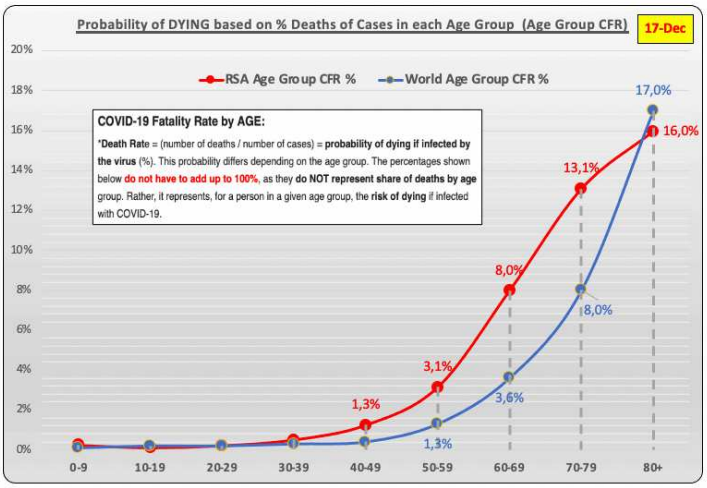


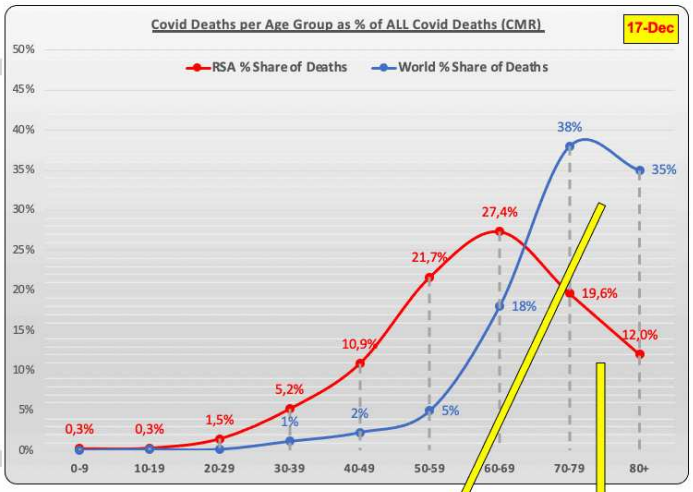


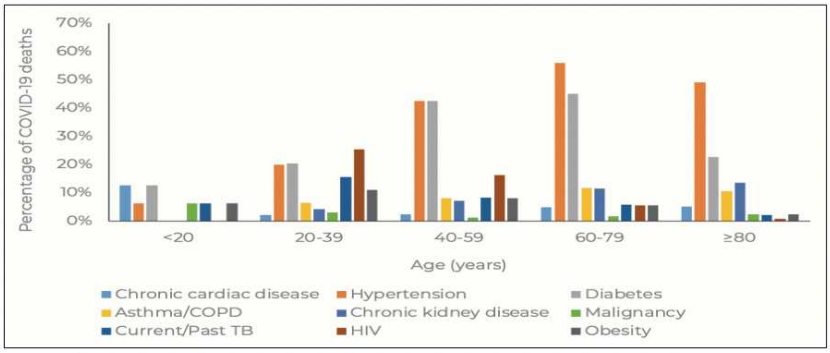
Data as at: 21 December 2020 *Unless otherwise indicated* *hdg* *22 December 2020*

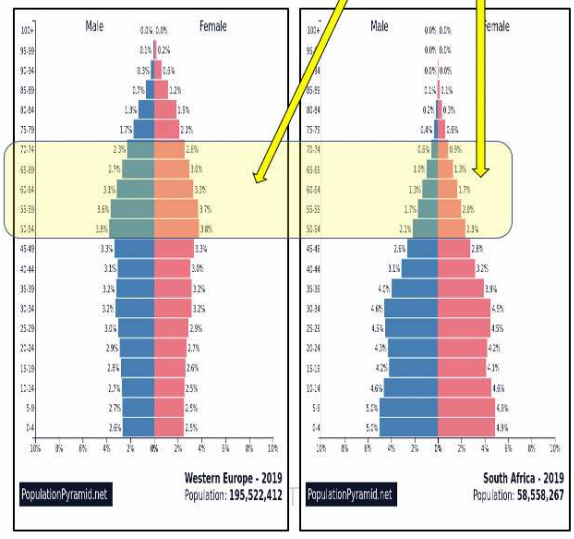
RSA Age & Gender Stats





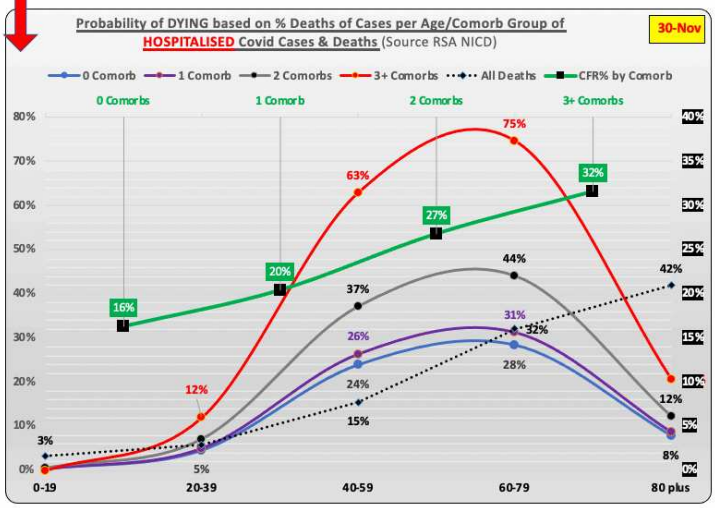


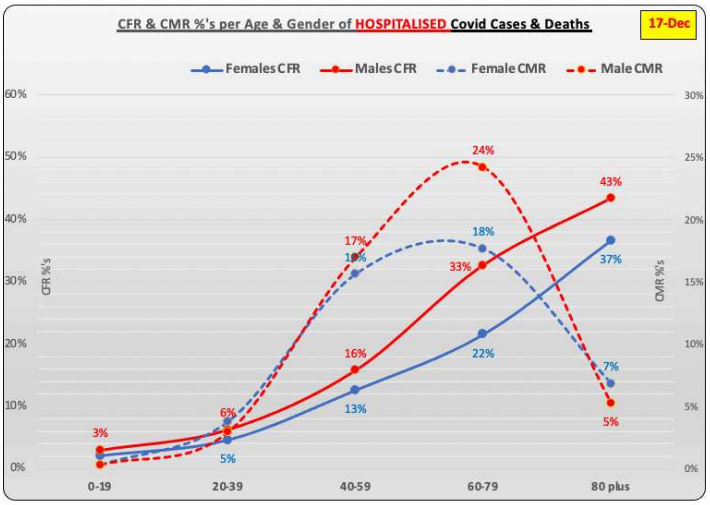




COVID-19 Fatality Rate by AGE:

*Death Rate = (number of deaths / number of cases) = **probability of dying if infected by the virus** (%). This probability differs depending on the age group. The percentages shown below **do not have to add up to 100%**, as they **do NOT represent share of deaths by age** group. Rather, it represents, for a person in a given age group, the **risk of dying** if infected with COVID-19.



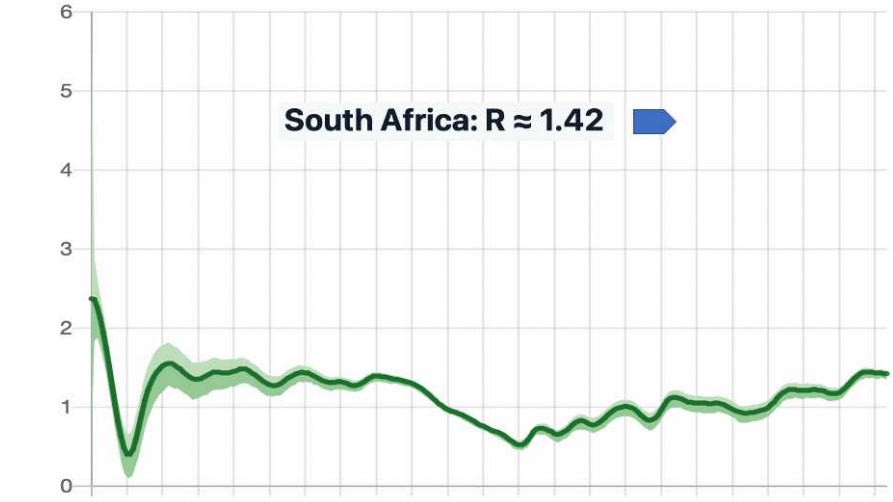


Data as at: As indicated per graph

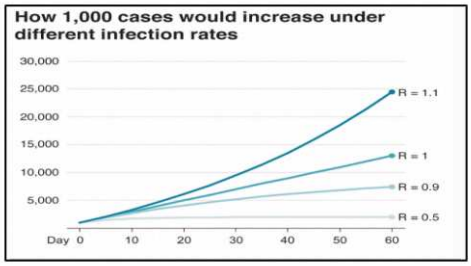
Covid REPRODUCTIVE NUMBER (Rt) in RSA & Provinces

Data as at: **20 December 2020** Latest Available

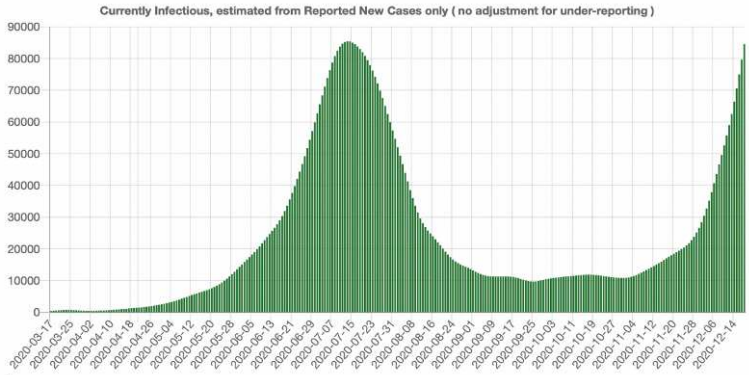
The Reproduction Number, R, derived from Currently Infectious estimates, see below

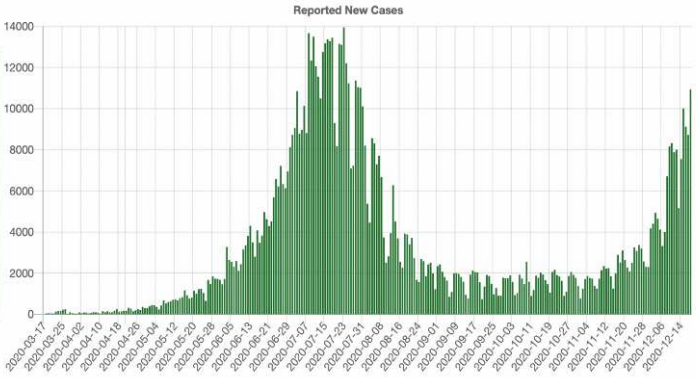


A Rt below 1 suggests that the number of cases is shrinking, possibly allowing societies to open back up. . A Rt above 1 indicates that the number of cases is growing, perhaps necessitating renewed lockdowns or other measures.

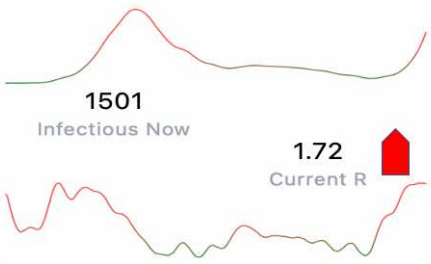


Movement from previous reporting





LIMPOPO



1501 Infectious Now

1.72 Current R

NORTH WEST

1744 Infectious Now

1.65 Current R

KWAZULU-NATAL

27250 Infectious Now

1.62 Current R

GAUTENG

16587 Infectious Now

1.5 Current R

MPUMALANGA

1224 Infectious Now

1.48 Current R

WESTERN CAPE

28531 Infectious Now

1.41 Current R

NORTHERN CAPE

508 Infectious Now

1.32 Current R

FREE STATE

742 Infectious Now

1.3 Current R

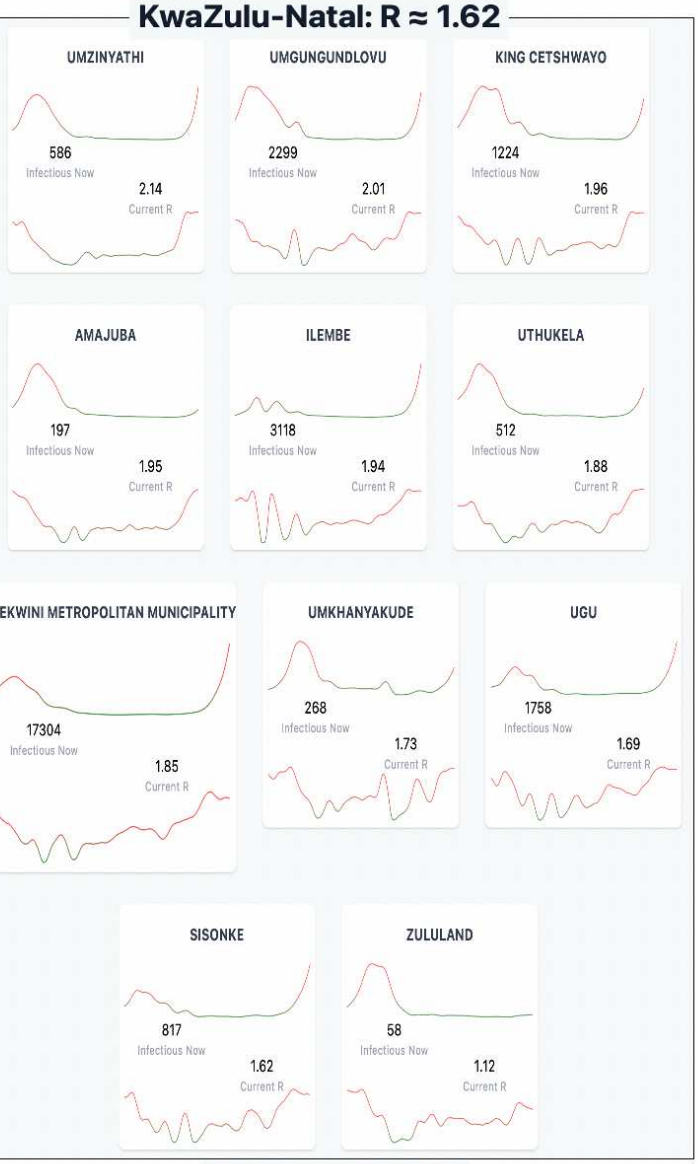
EASTERN CAPE

11014 Infectious Now

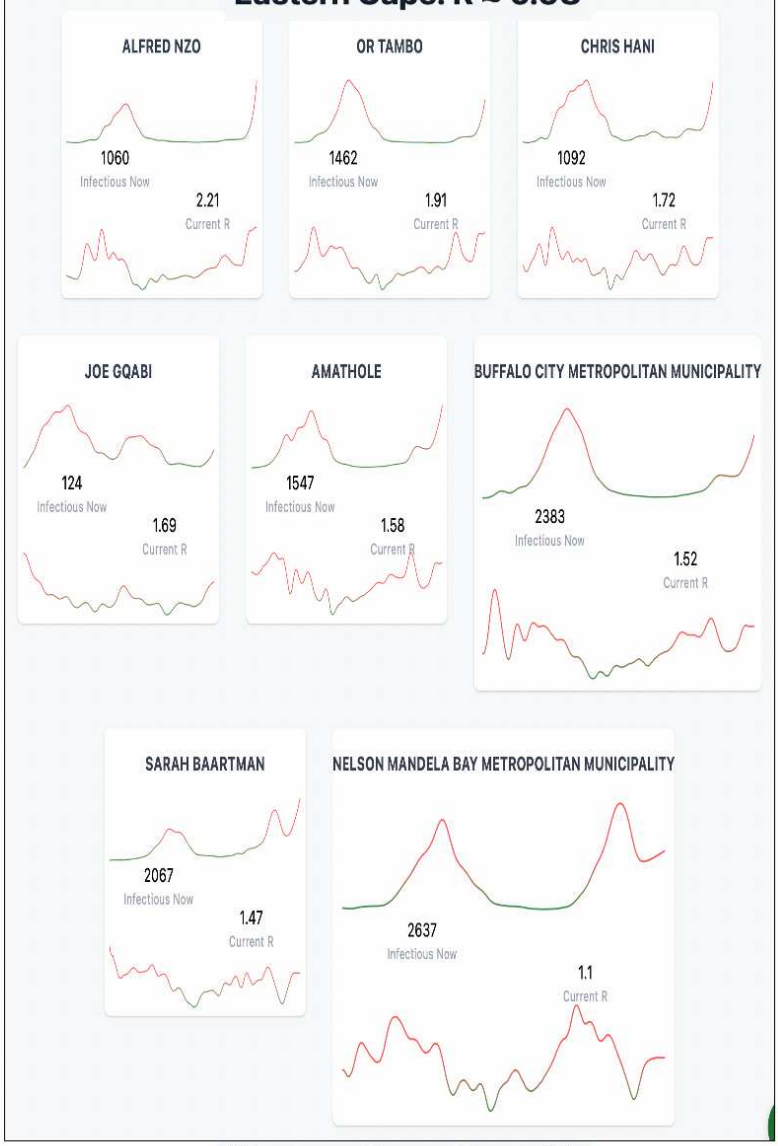
0.98 Current R

Major Provinces: Rt #'s & Active Cases by District

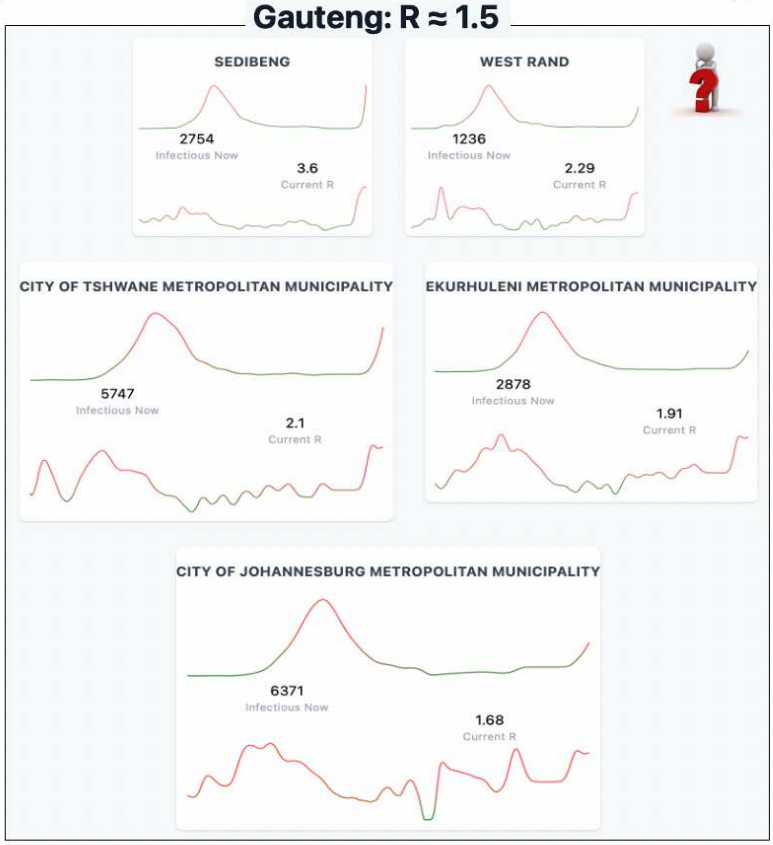
KwaZulu-Natal: R ≈ 1.62



Eastern Cape: R ≈ 0.98



Gauteng: R ≈ 1.5



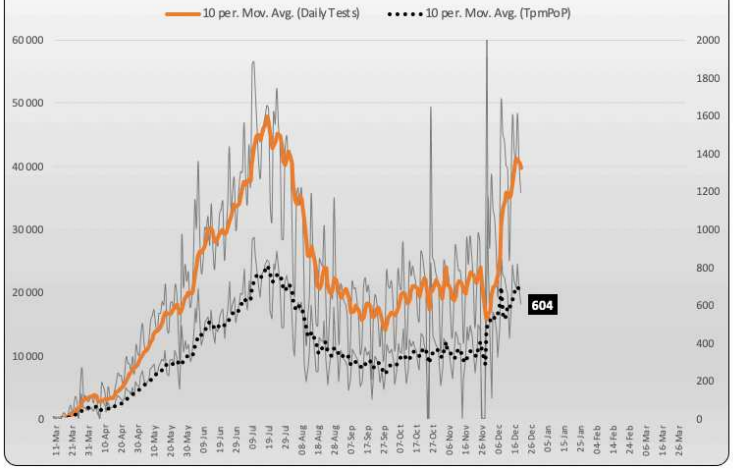
Western Cape: R ≈ 1.41

Data as at: Latest Available

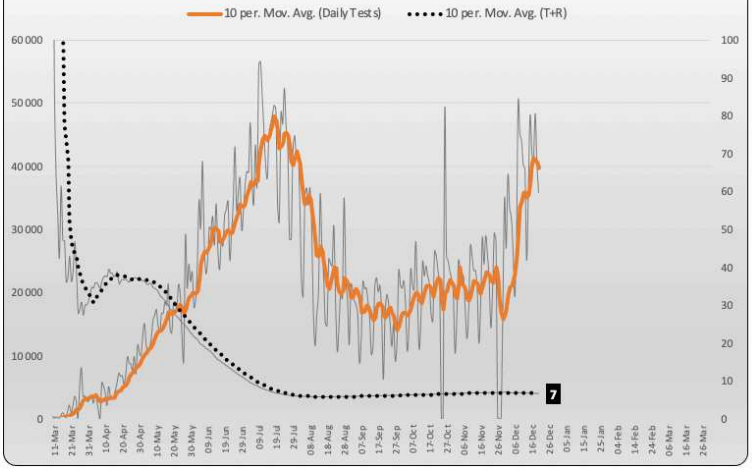
Rt graphs from: COVID reproduction https://reproduction.live/world/ZA *hdg* *22 December 2020*

RSA Key Ratios & Comparators

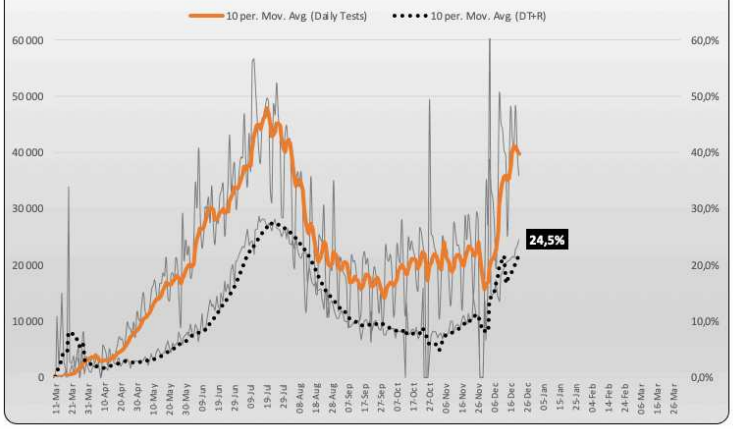
RSA: Daily Tests per million PoP



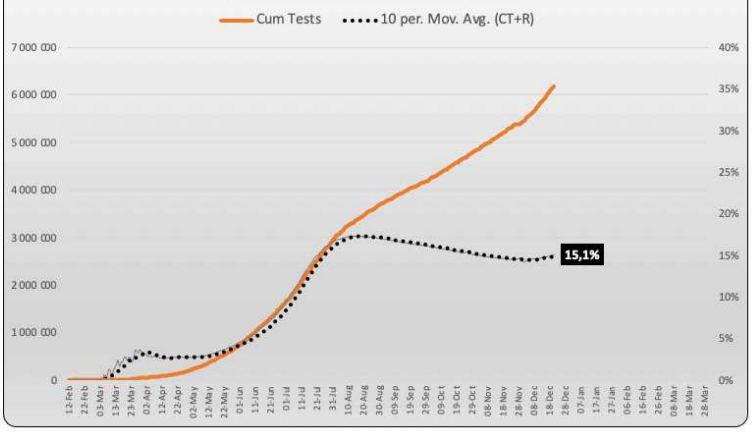
RSA: Daily Tests per +Case



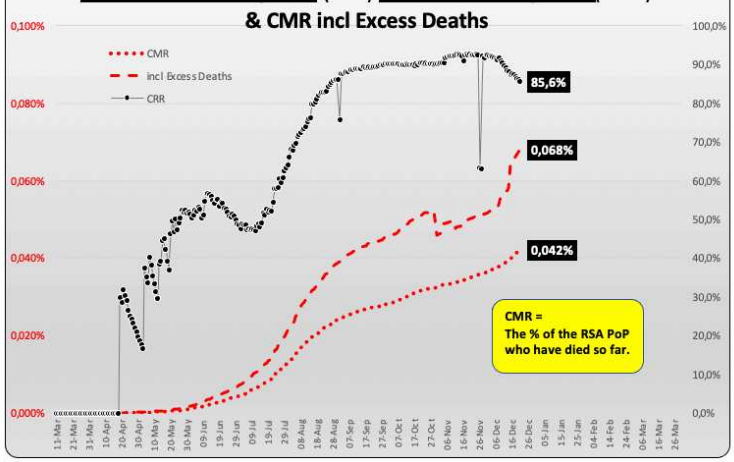
RSA: Daily Tests Positivity %



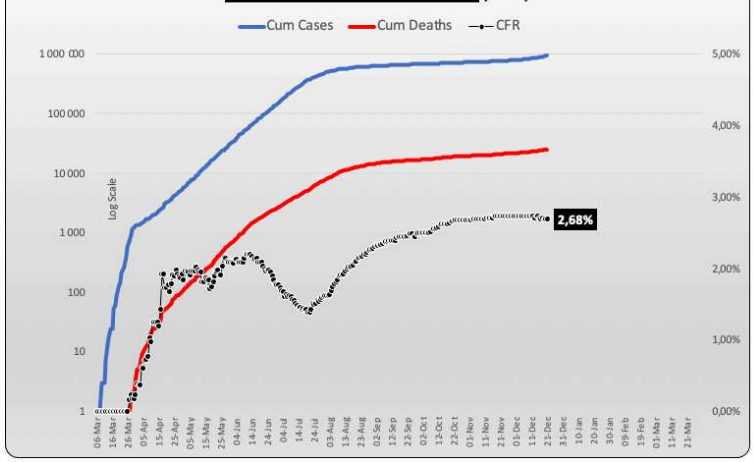
RSA: Cum Tests Positivity Rate



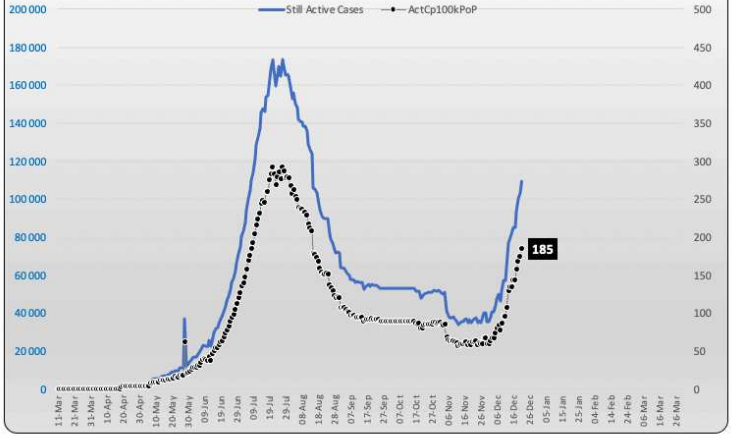
RSA: Case Recovery Rate (CRR) & Case Mortality Rate (CMR) & CMR incl Excess Deaths



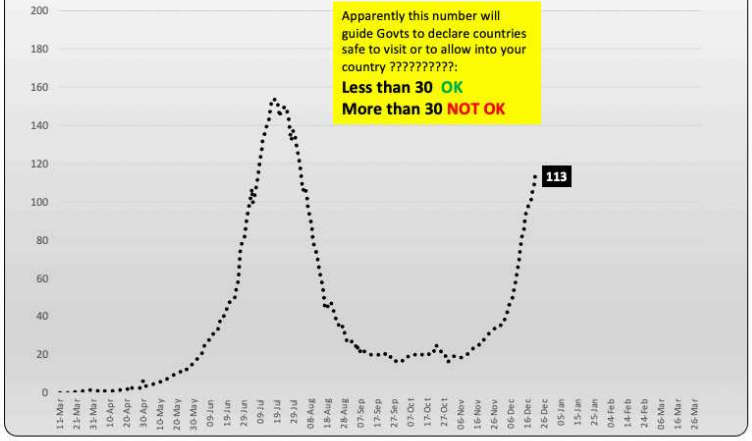
RSA: Deaths as % of Cases (CFR)



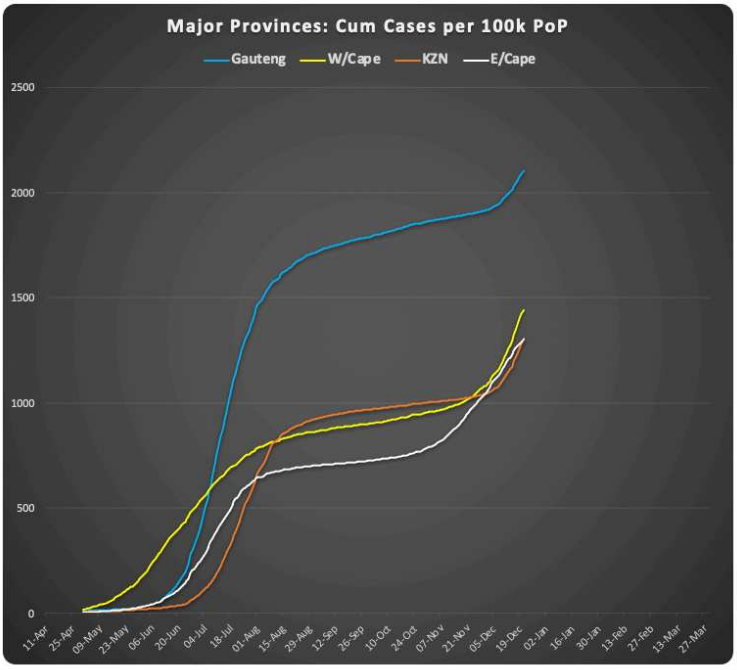
RSA: Active Cases per 100k PoP

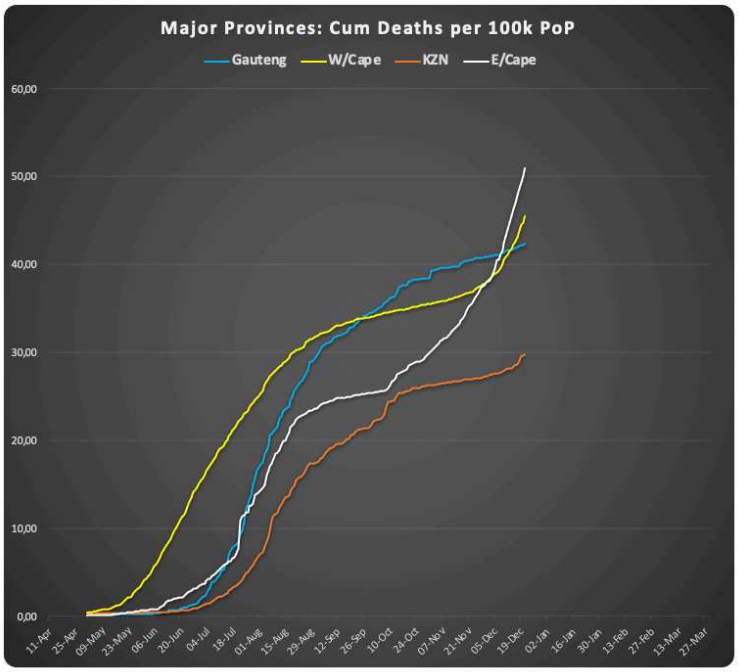


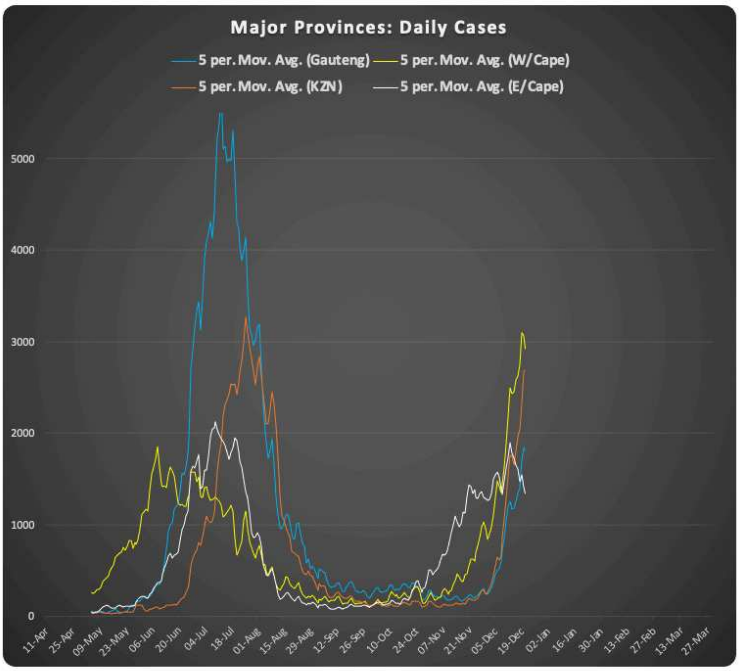
RSA: Avg New Cases per week per 100k PoP

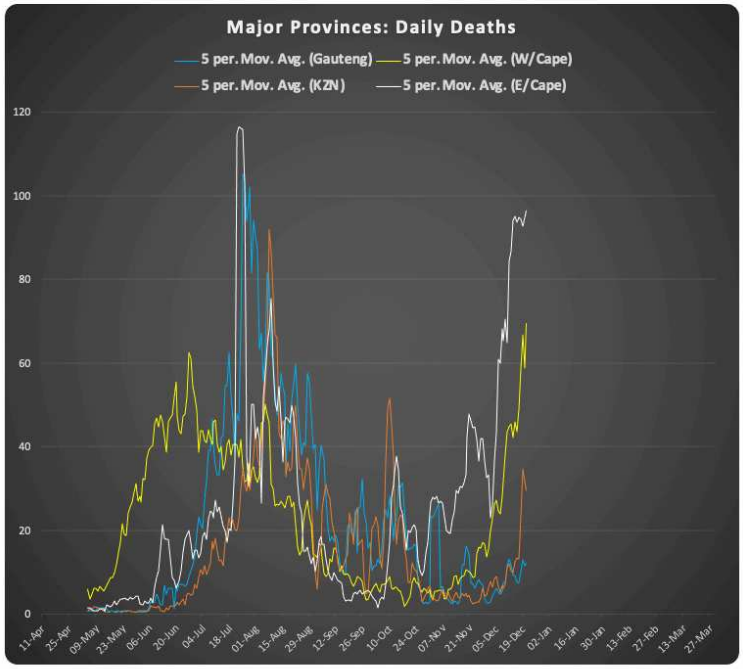


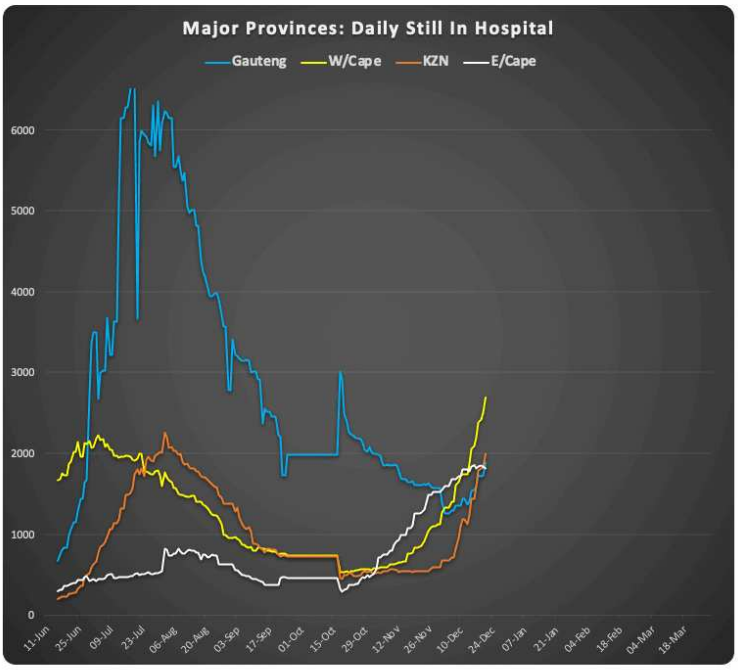
RSA & Major Provinces Key Data Sets

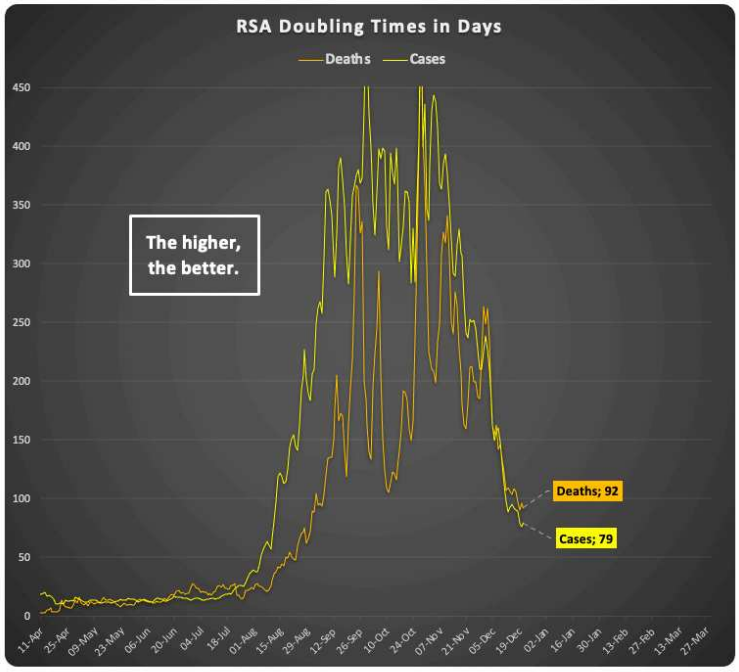






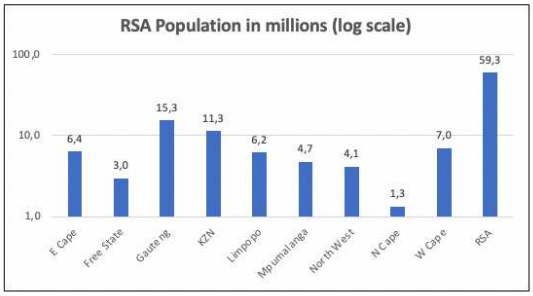


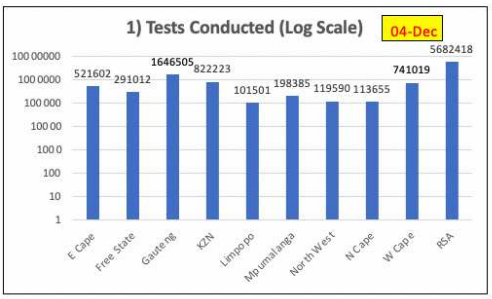


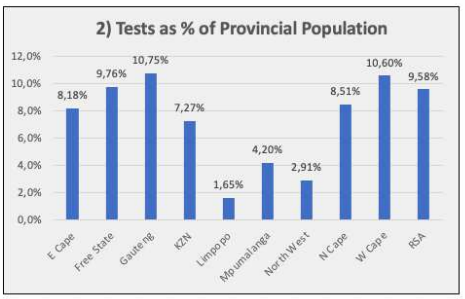


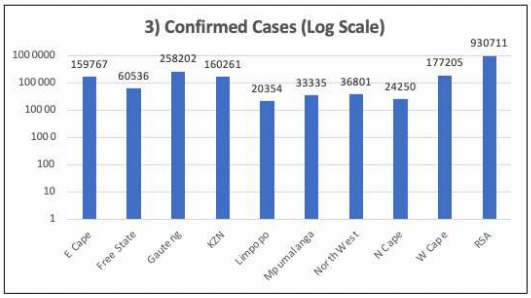
Data as at: 21 December 2020 *Unless otherwise indicated* *hdg* *22 December 2020*

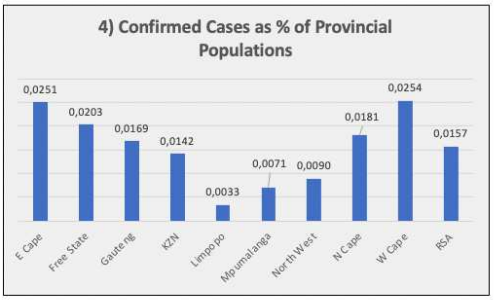
RSA Covid Stats: National & Provincial Analysis

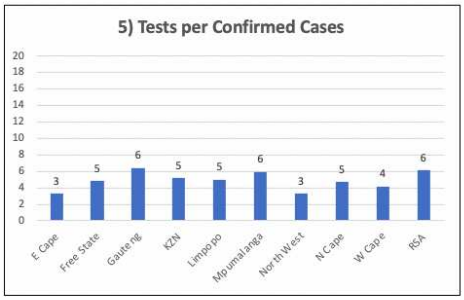


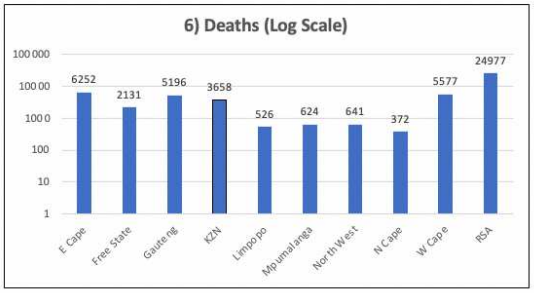


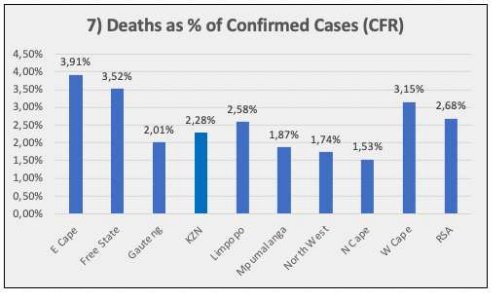


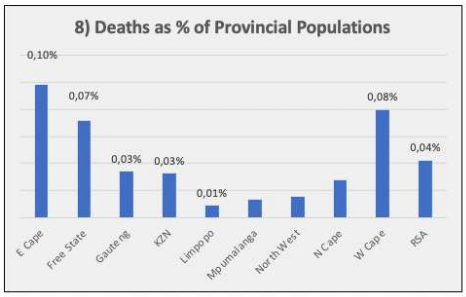


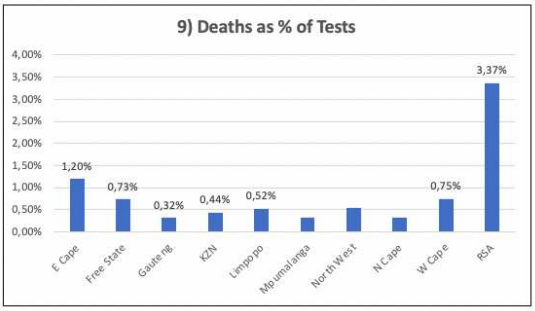


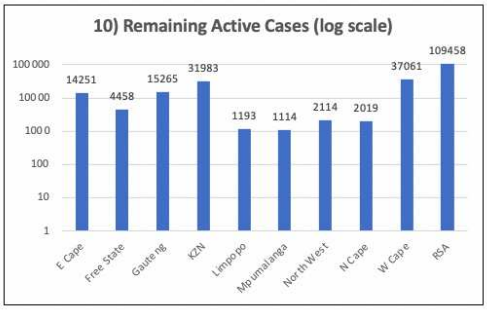


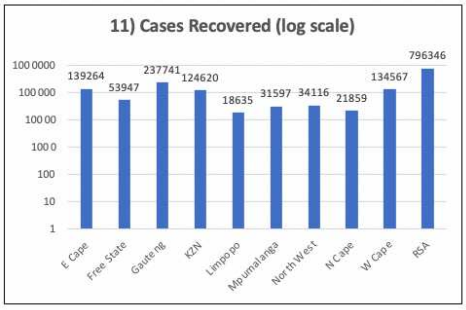


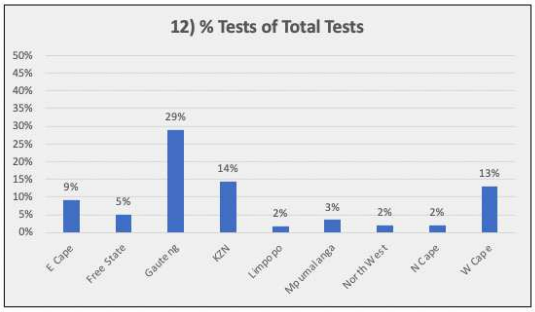


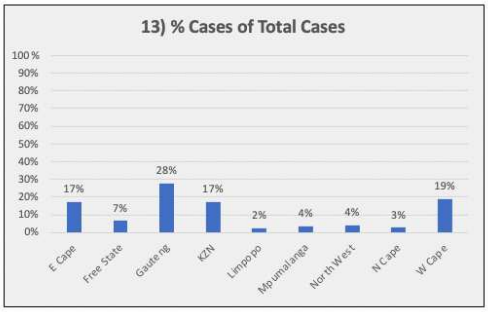


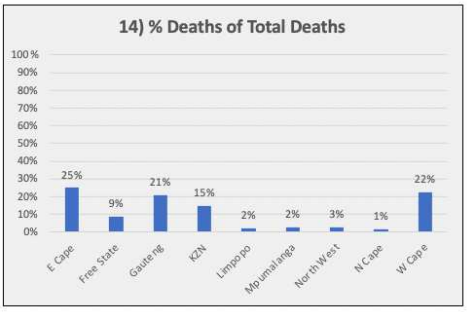


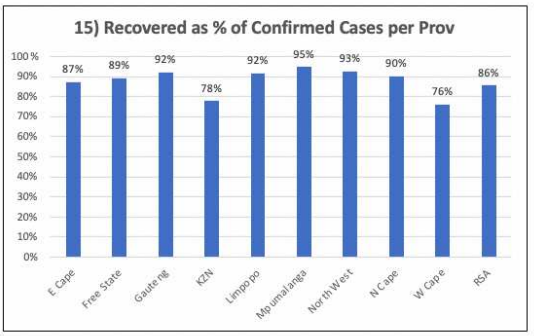










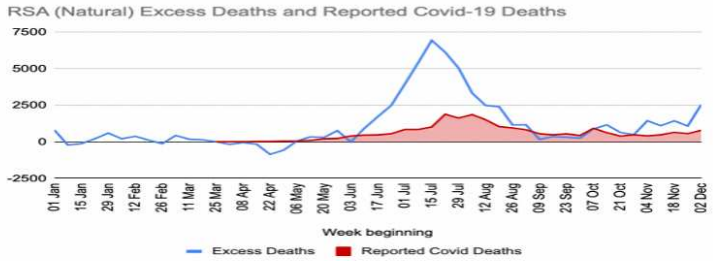


Data as at: 21 December 2020 *Unless otherwise indicated*

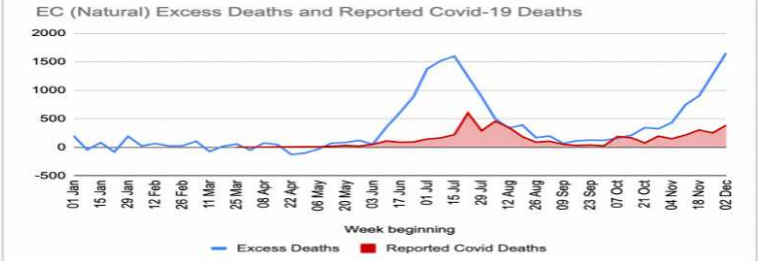
hdg 22 December 2020

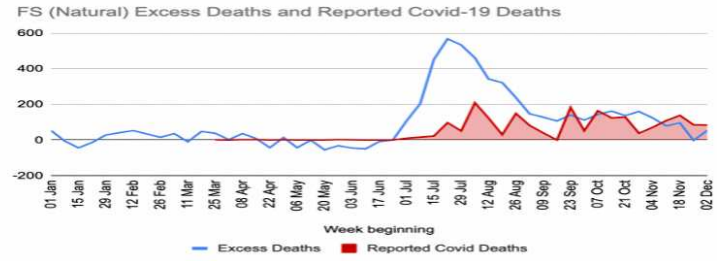
RSA Excess Deaths as per SA Medical Research Council

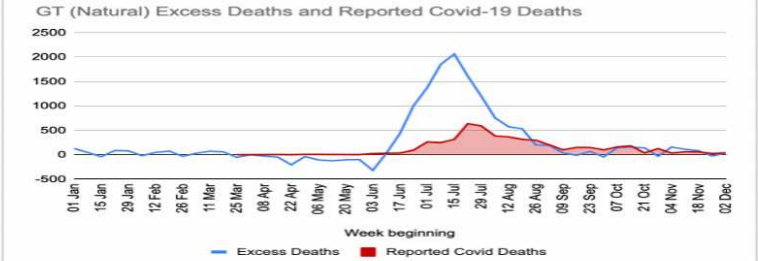
One approach to aid understanding of the emerging COVID-19 mortality is to compare the estimated weekly excess deaths with the number of COVID-19 deaths reported by the Minister of Health as shown in the figure below. This comparison is hampered to some degree by the fact that the excess deaths are classified 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.

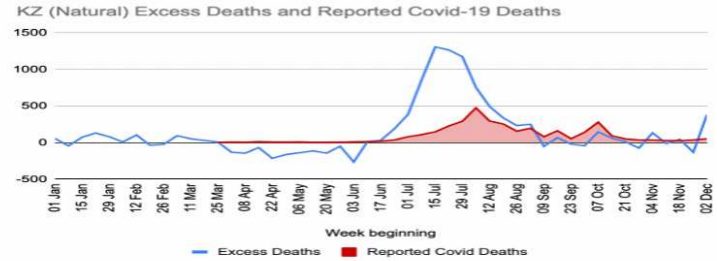


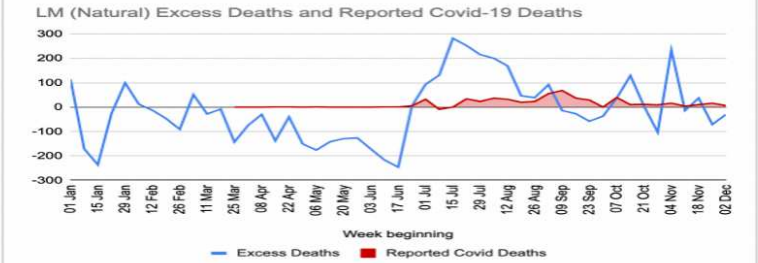
Provinces

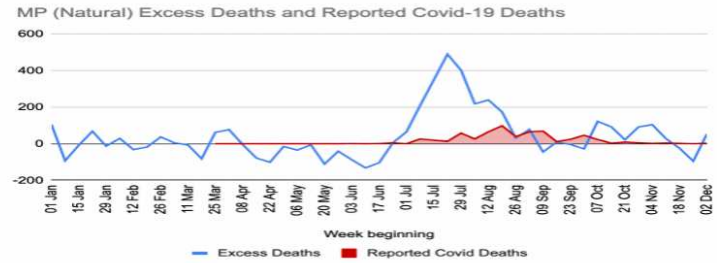


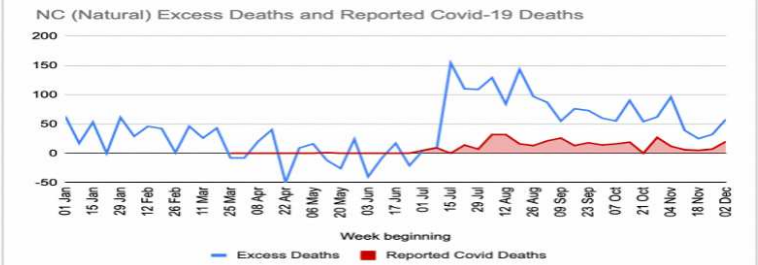


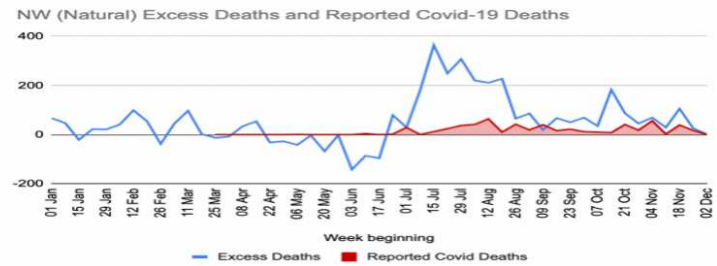


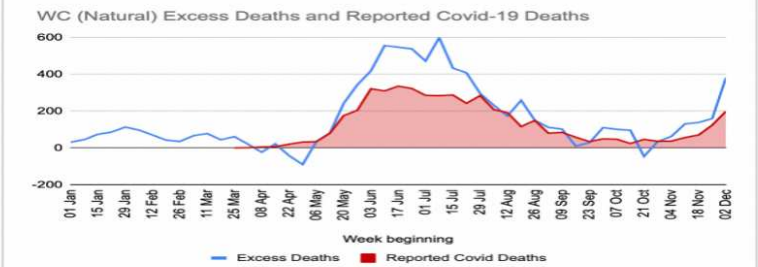








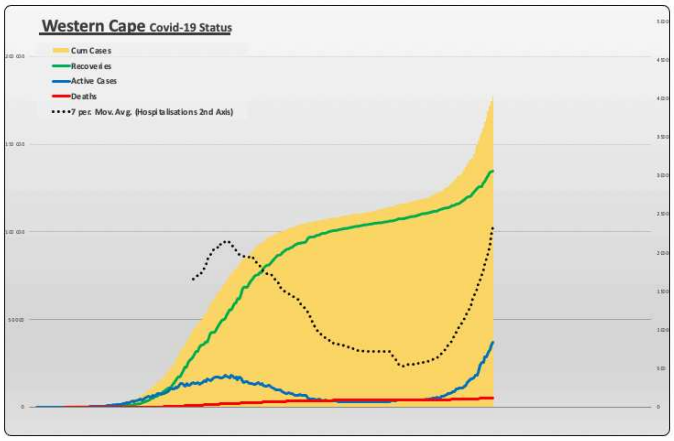


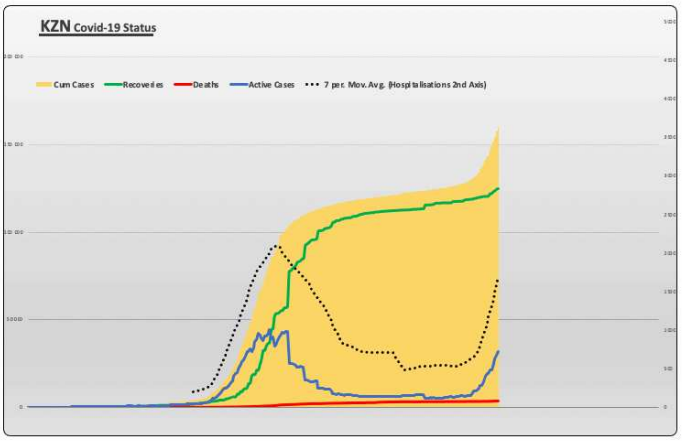


Data as at: **Latest Available**

hdg *22 December 2020*

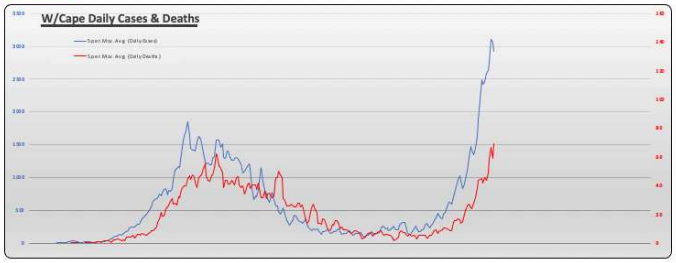
RSA Major Provinces Covid-19 Status (four bigger provinces on the same linear scale, RSA on own Linear scale)

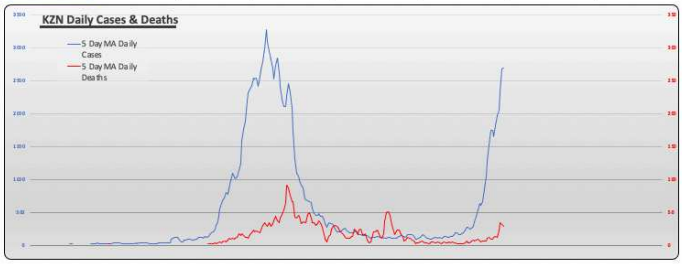


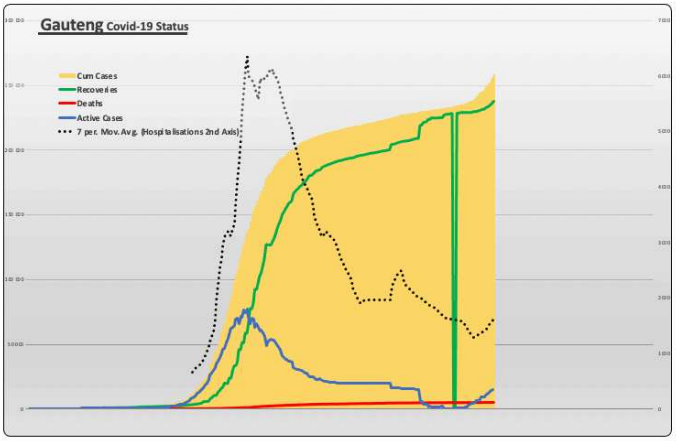


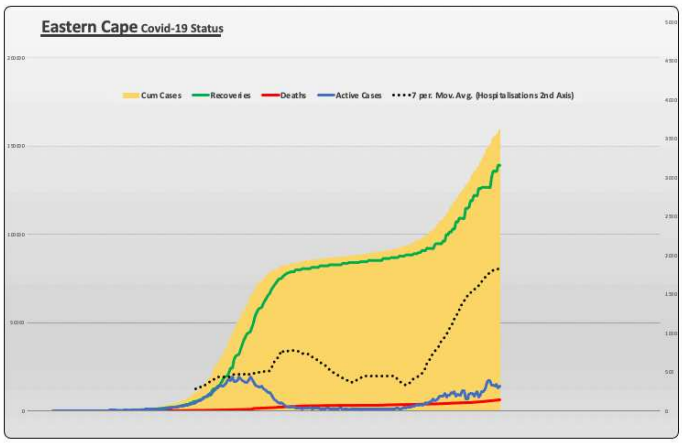
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
WCape PoP:	7,0	741019	Test%: 10,6%	+Case %: 23,9%	Activ/C %: 20,9%	Recov %: 75,9%	Deaths: 797,9	CFR: 3,15%

	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	6176683	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
KZN PoP:	11,3	822223	Test%: 7,3%	+Case %: 19,5%	Activ/C %: 20,0%	Recov %: 77,8%	Deaths: 323,5	CFR: 2,28%



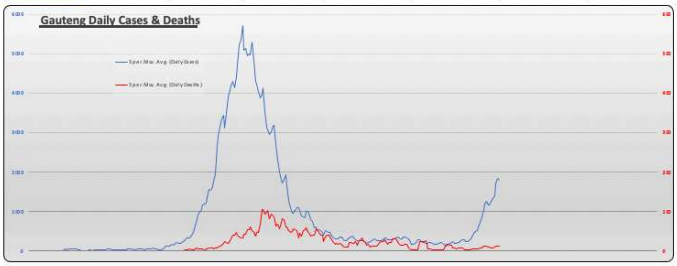


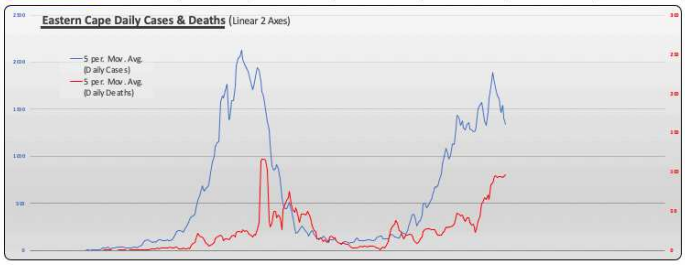


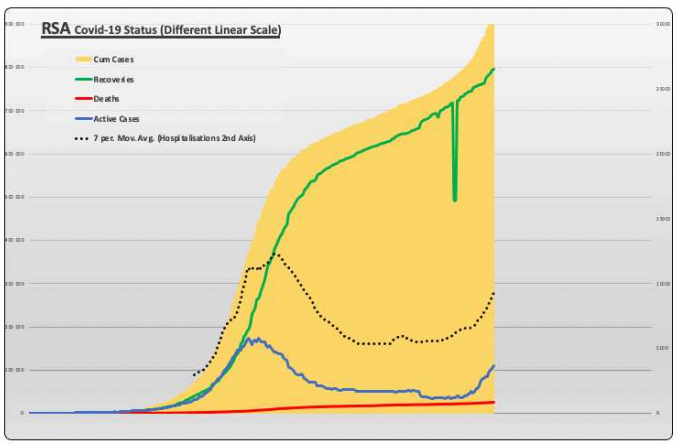


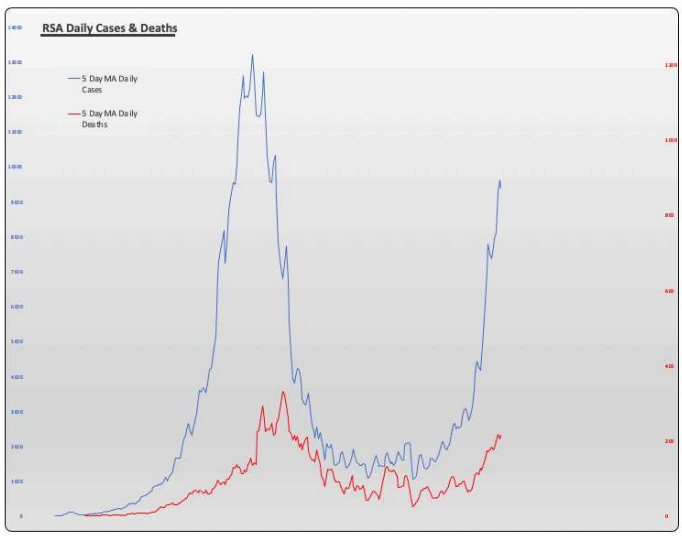
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
Gauteng PoP:	15,3	######	Test%: 10,8%	+Case %: 15,7%	Activ/C %: 5,9%	Recov %: 92,1%	Deaths: 339,3	CFR: 2,01%

	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	6176683	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
ECape PoP:	6,4	521602	Test%: 8,2%	+Case %: 30,6%	Activ/C %: 8,9%	Recov %: 87,2%	Deaths: 981,0	CFR: 3,91%









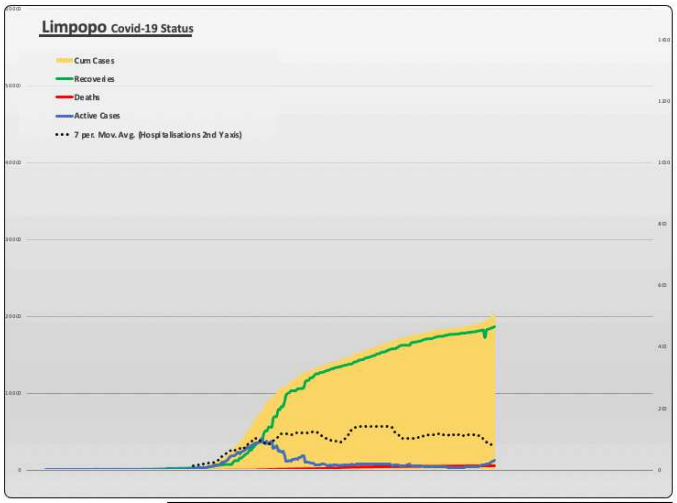
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%

Data as at: 21 December 2020 *Unless otherwise indicated*

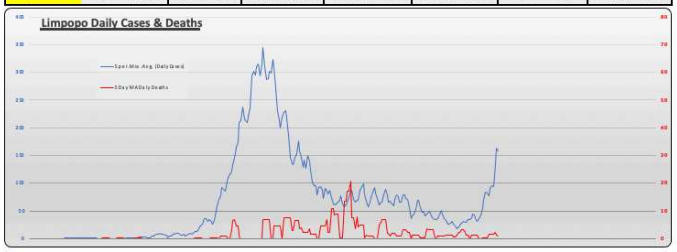
hdg 22 December 2020

RSA Smaller Provinces Covid-19 Status (same linear scales)

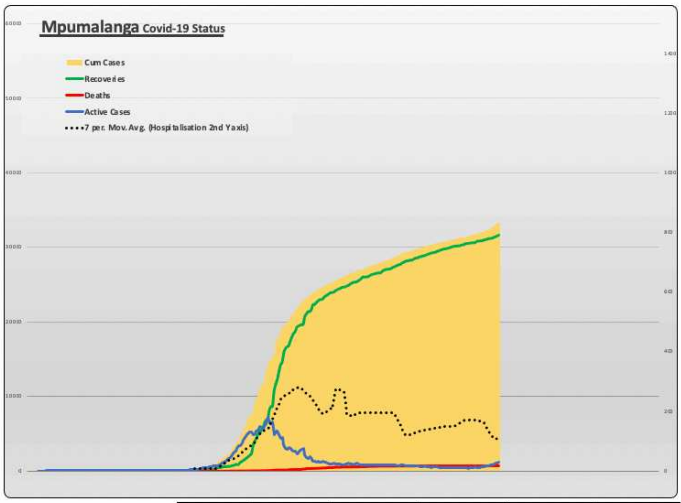
Limpopo Covid-19 Status



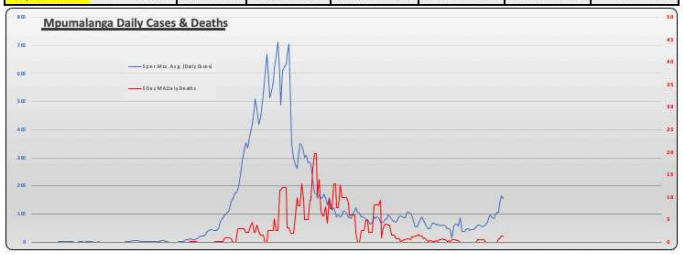
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	CFR: 421,14	Death %: 2,68%
Limpopo PoP:	6,2	101501	Test%: 1,6%	+Case %: 20,1%	Activ/C %: 5,9%	Recov %: 91,6%	CFR: 85,3	Death %: 2,6%



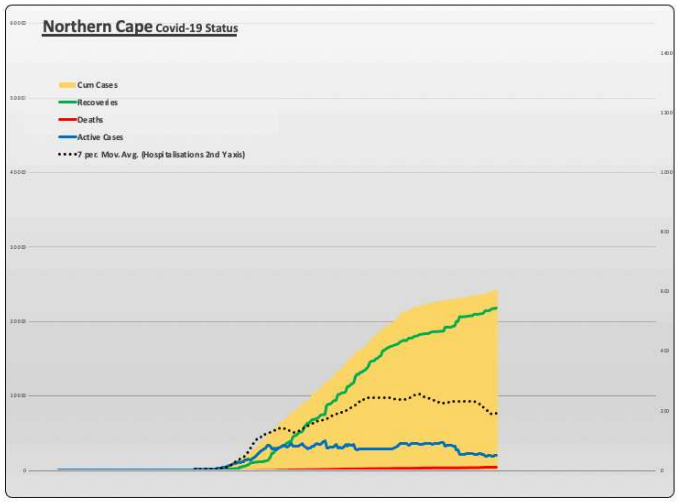
Mpumalanga Covid-19 Status



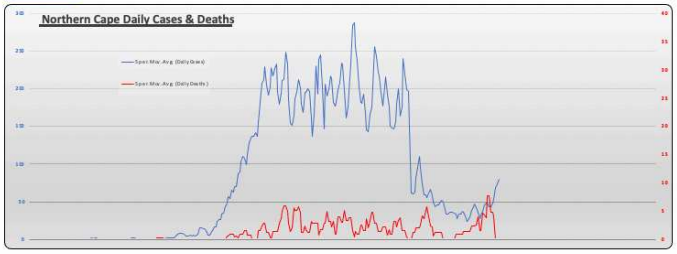
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	6176683	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
Mpuma PoP:	4,7	198385	Test%: 4,2%	+Case %: 16,8%	Activ/C %: 3,3%	Recov %: 94,8%	Deaths: 132,0	CFR: 1,9%



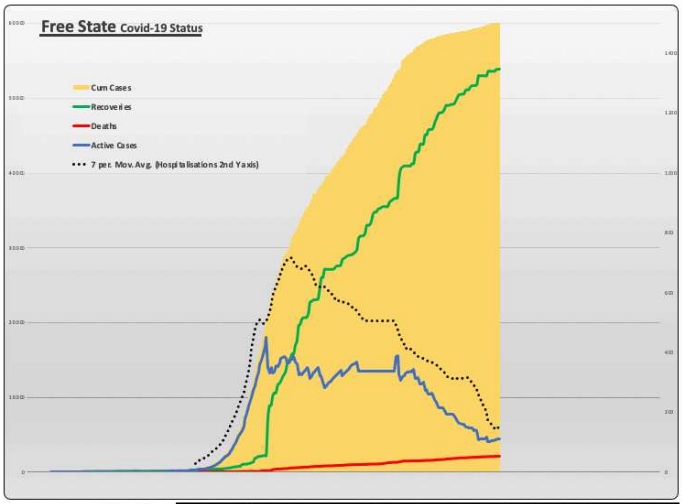
Northern Cape Covid-19 Status



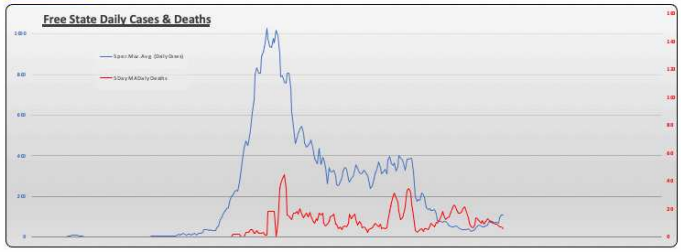
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
N Cape PoP:	1,3	113655	Test%: 8,5%	+Case %: 21,3%	Activ/C %: 8,3%	Recov %: 90,1%	Deaths: 278,4	CFR: 1,5%



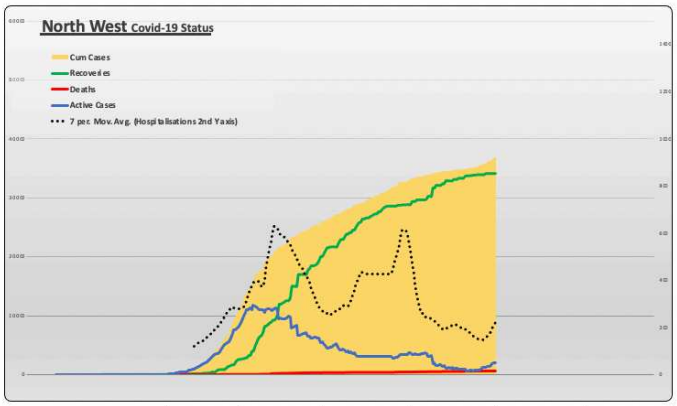
Free State Covid-19 Status



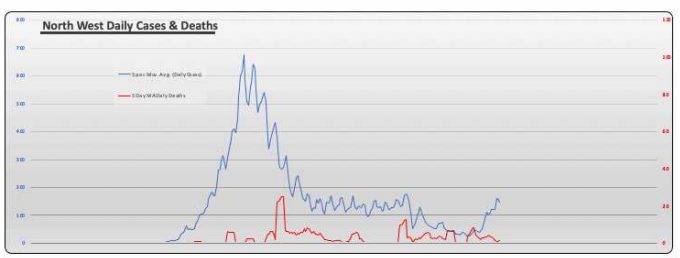
	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	6176683	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,14	CFR: 2,68%
Free State PoP:	3,0	291012	Test%: 9,8%	+Case %: 20,8%	Activ/C %: 7,4%	Recov %: 89,1%	Deaths: 714,9	CFR: 3,5%



North West Covid-19 Status



	Mill	#Tests	of PoP	of Tests	of +Cases	of +Cases	per Mill of PoP	of +Cases
RSA PoP:	59,3	######	Test%: 10,4%	+Case %: 15,1%	Activ/C %: 11,8%	Recov %: 85,6%	Deaths: 421,1	CFR: 2,68%
N West PoP:	4,1	119590	Test%: 2,9%	+Case %: 30,8%	Activ/C %: 5,7%	Recov %: 92,7%	Deaths: 155,9	CFR: 1,7%



Data as at: 21 December 2020 *Unless otherwise indicated*

hdg 22 December 2020

A mask is better than a ventilator , Home is better than ICU.
Prevention is better than Cure.
It's not CURFEW, it's CARE FOR U.