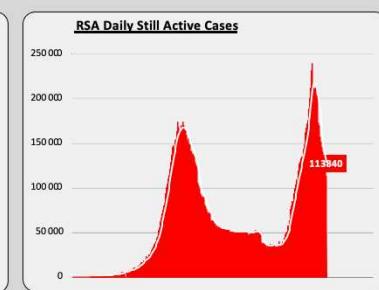
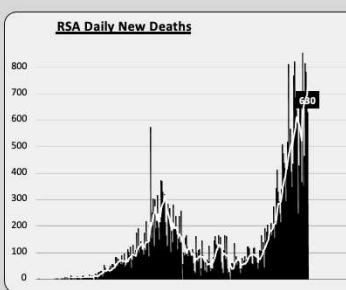
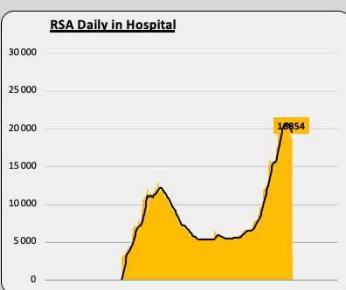
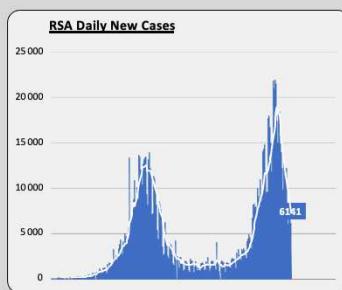
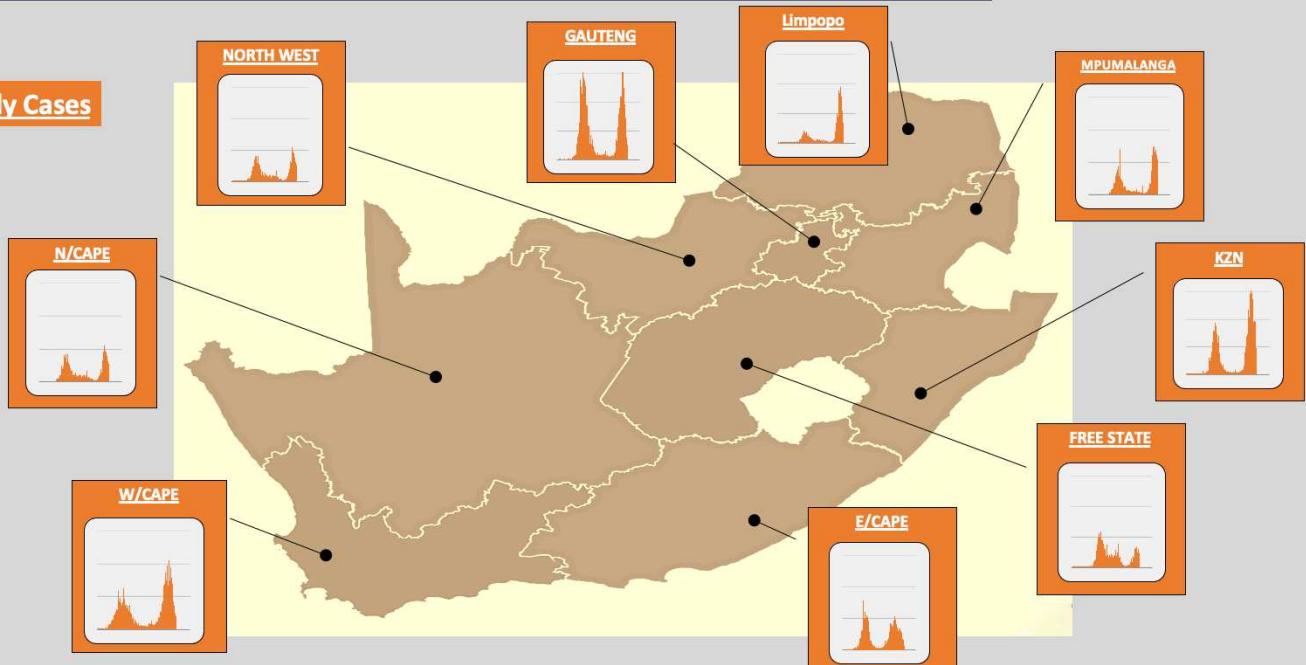


HarryG COVID-19 Dashboard

Cum +Cases	Daily Cases	RSA COVID-19 DASHBOARD			Daily Still in Hospitals	% of Reported Cases who Died (CFR)	Cum Recoveries	
1 443 939	6 141 ↓	30 January 2021			18854 ↓	3,14% ↑	1 284 781 ↑	89,0%
Still Active +Cases	+Cases per mill PoP	Deaths per mill PoP				% of RSA PoP who have died to date (CMR)	% of RSA PoP Vaccinated & % Vacs + Recovered Cases	
113 840 ↓	24 346	764				0,076%	0,0%	2,4%
Deaths Avg Age	Deaths Min Age	Deaths Max Age			Daily Change	Deaths Median Age	Cum Tests	Daily Tests
62,2	0,2	105				60,9	8 203 584	47 345 ↓
Female : Cases 57,8% Deaths 51,4% CFR 2,48%			Male : Cases 42,2% Deaths 48,6% CFR 3,22%					
26-Jan								

Daily Cases

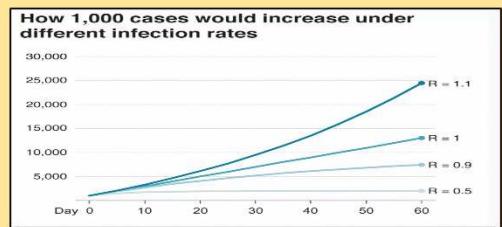


RSA Rt

Prev 2 :	.64
Prev 1 :	.64
Latest :	.63

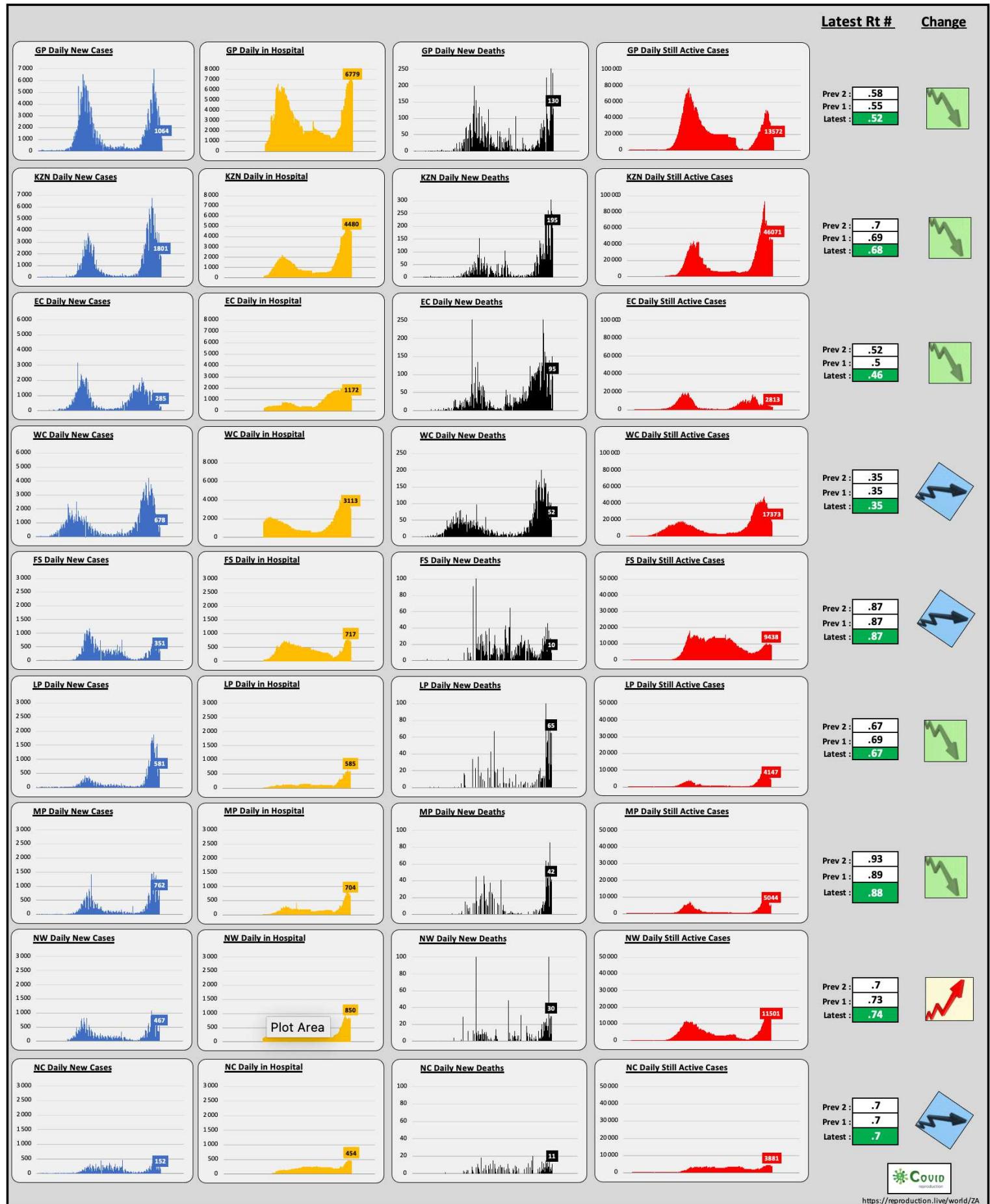
Rt numbers rely on regular, recent & quality data inputs. This is not always the case in RSA and hence the Rt numbers below, although accurate, do not reflect the current situation. It is based on various inputs some of which is up to two weeks old.

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.

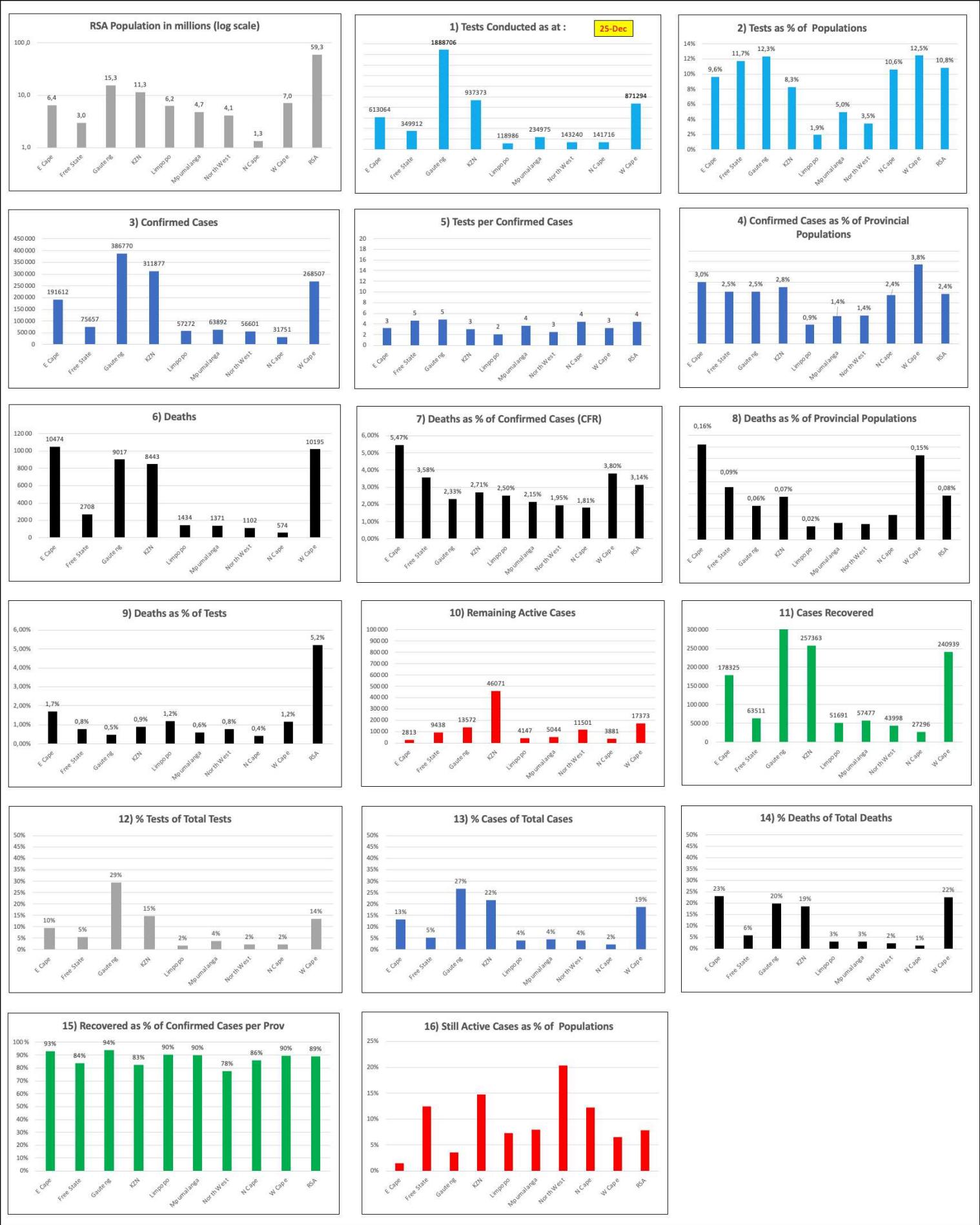


RSA Provinces detailed daily Data and Trends

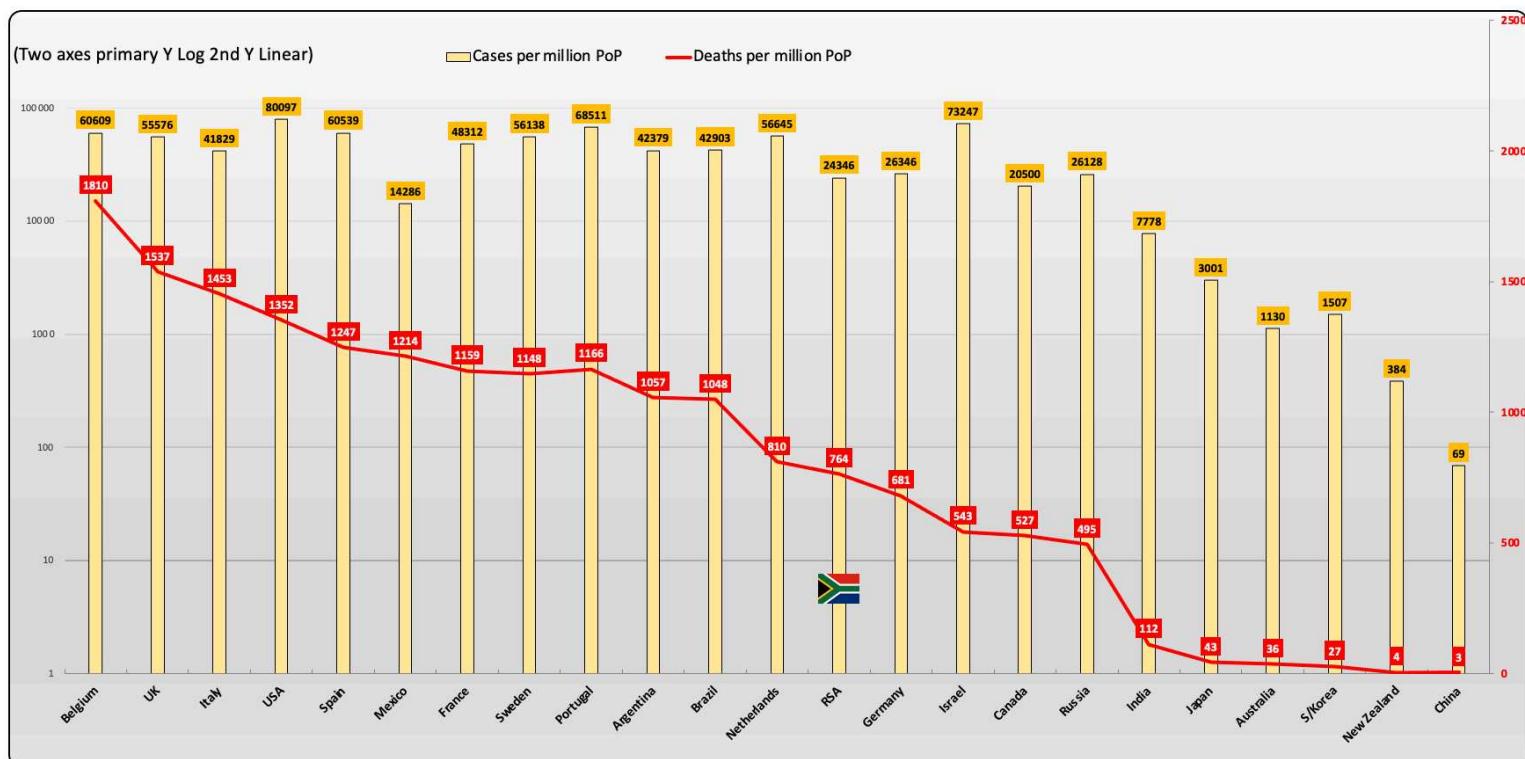
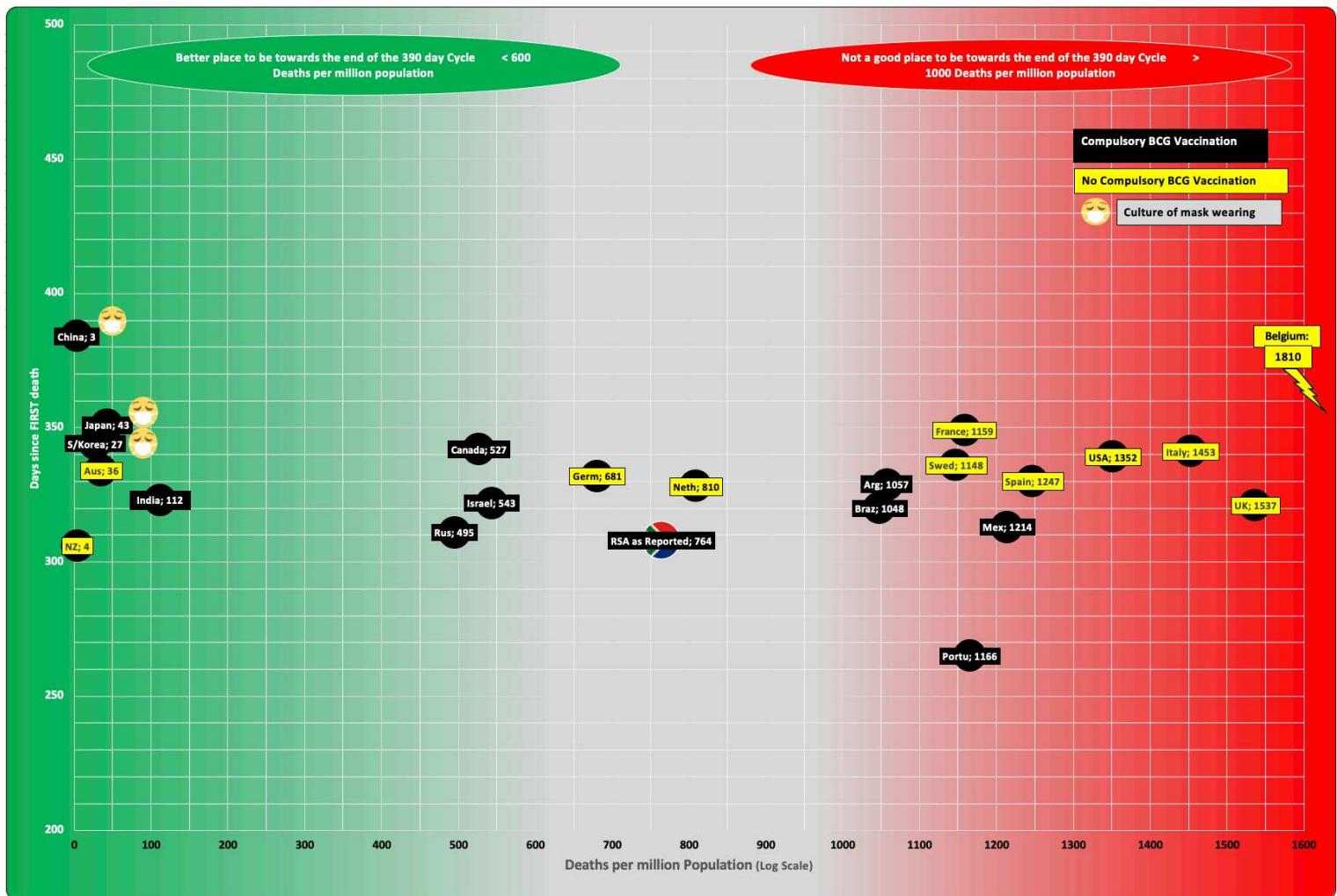
How old is the Data? : Cases 2-5 days, Hospitalisation 1-3 days, Deaths 4-10 days, Still Active Cases 4-10 days, Rt #'s 3-10 days



RSA Covid Stats: National & Provincial Data & Ratios



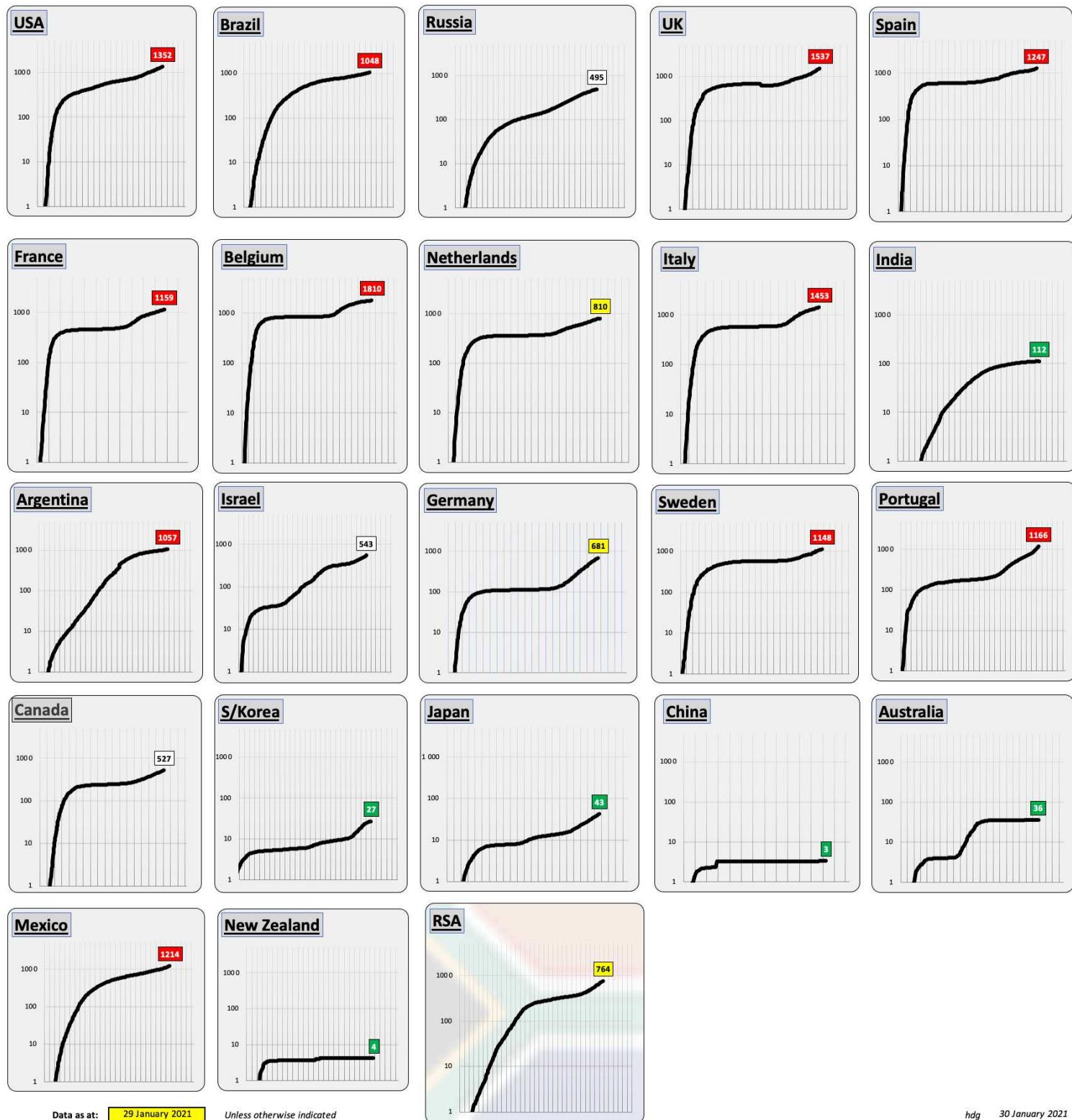
Selected Countries' Reported Cases & Deaths per mill PoP



Cum Deaths per mill PoP for selected countries

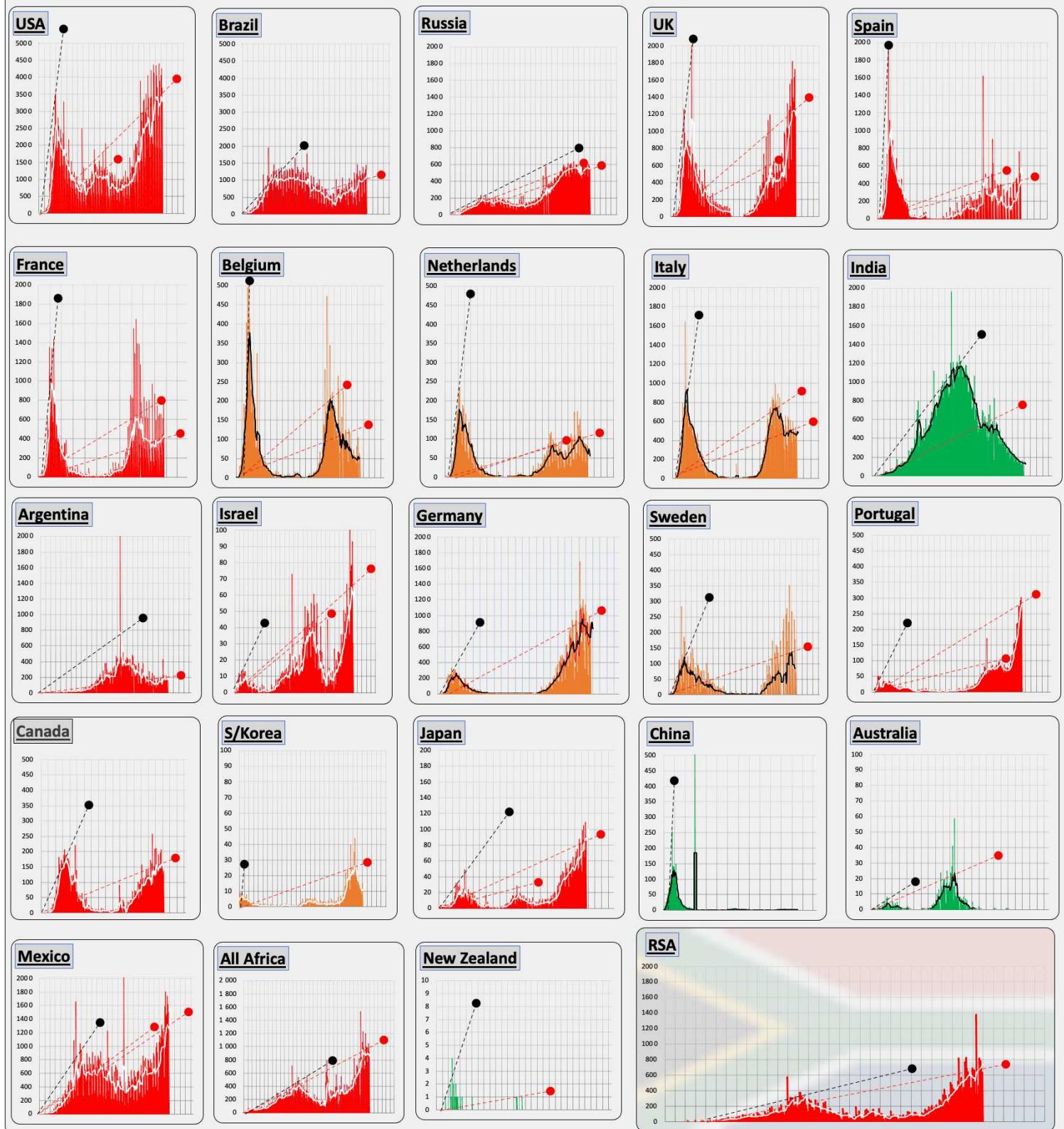
All on same Log Scale (compare Apples with Apples)

Cum Deaths > 1000 per Mill
Cum Deaths > 600 per Mill
Cum Deaths < 200 per Mill



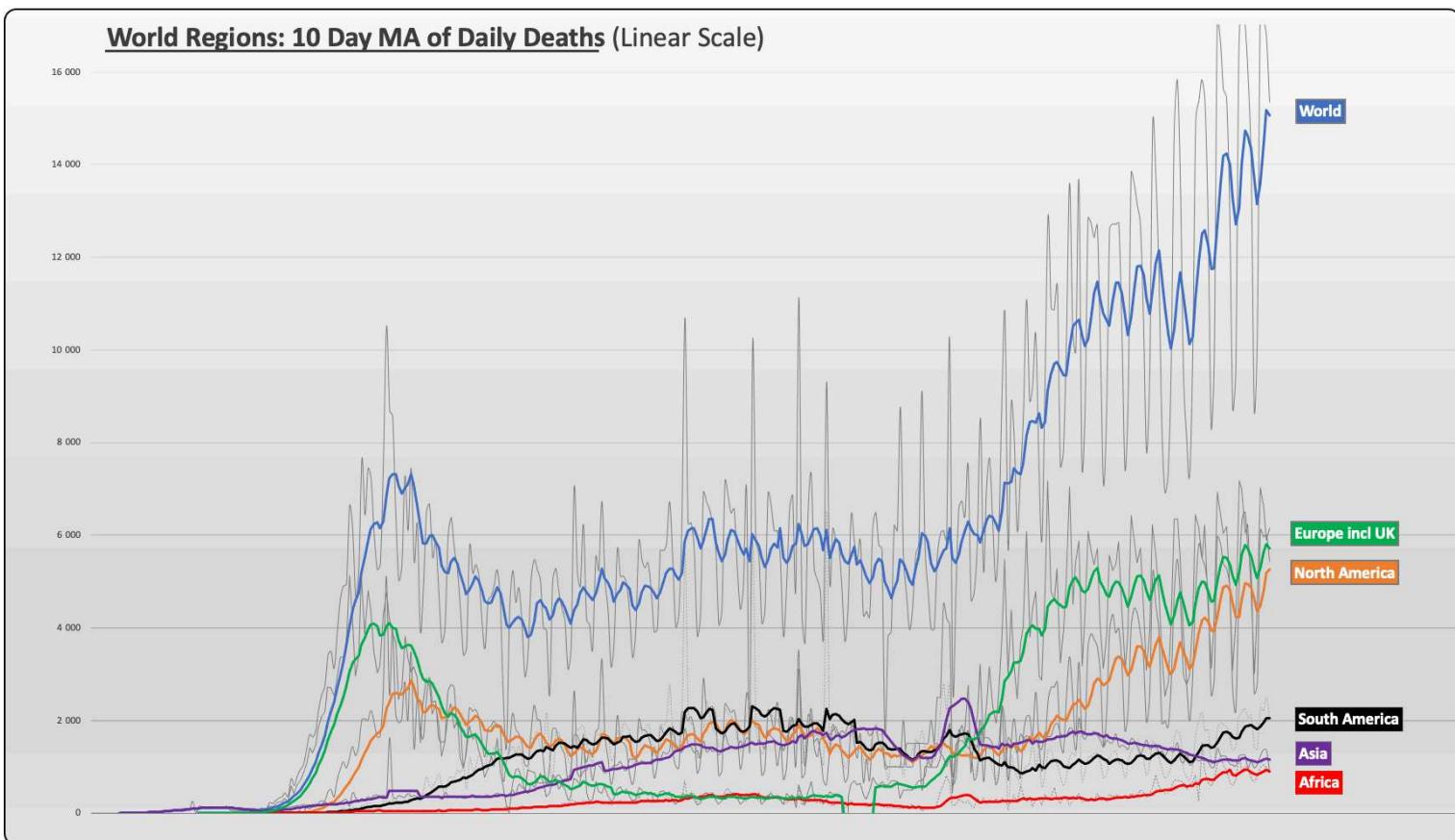
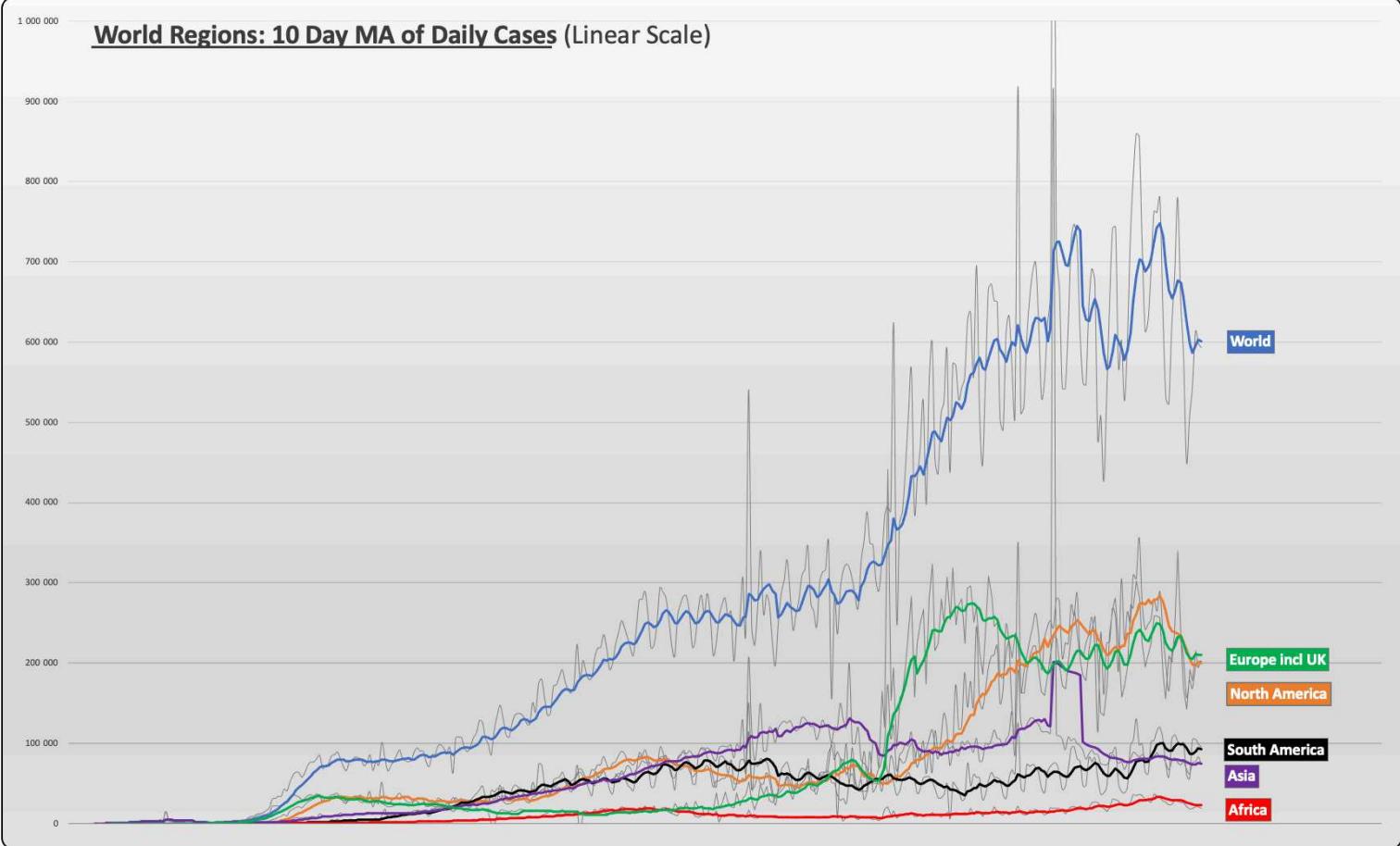
**Daily Deaths Curves plus 7 Day MA
also Rate of Onset/Next Wave "Inclinometers"**

Peaked but spiking again
Passed peak but could rebound OR next wave
Well past peak, unlikely to rebound
 - - - ● Onset/1st wave
 - - - ○ Next waves



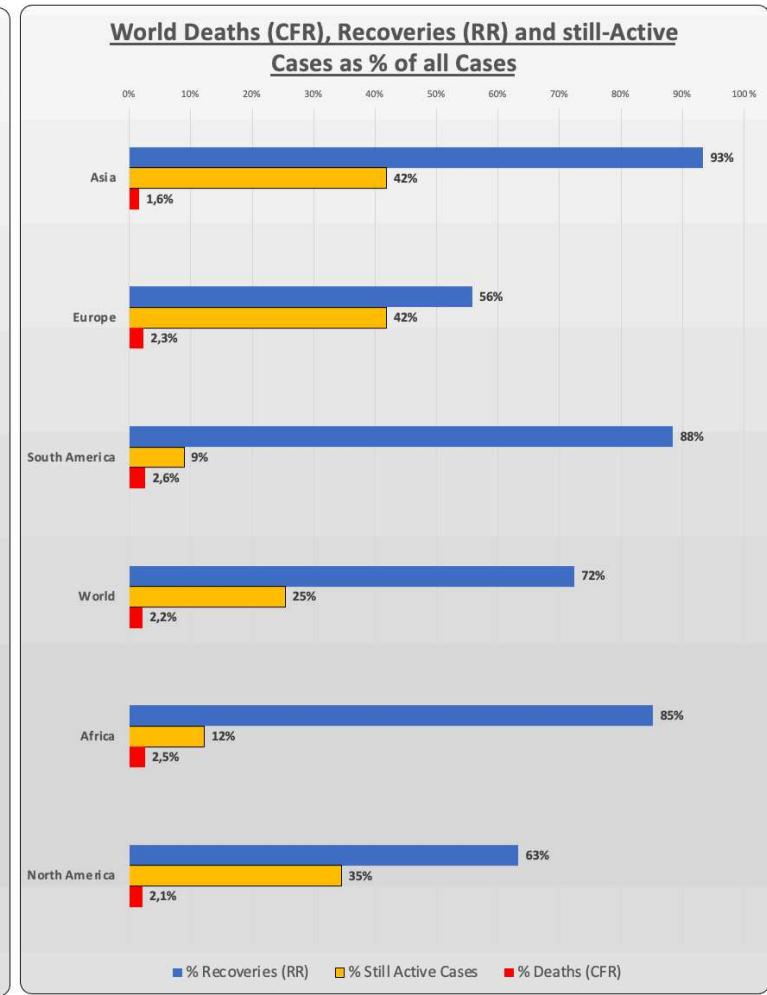
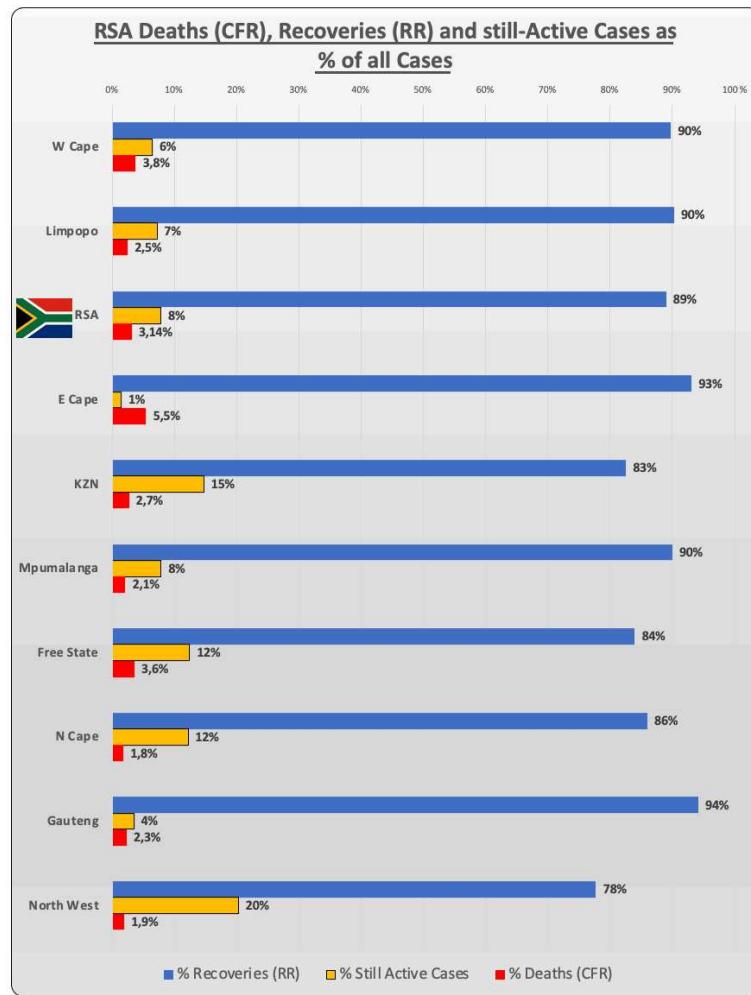
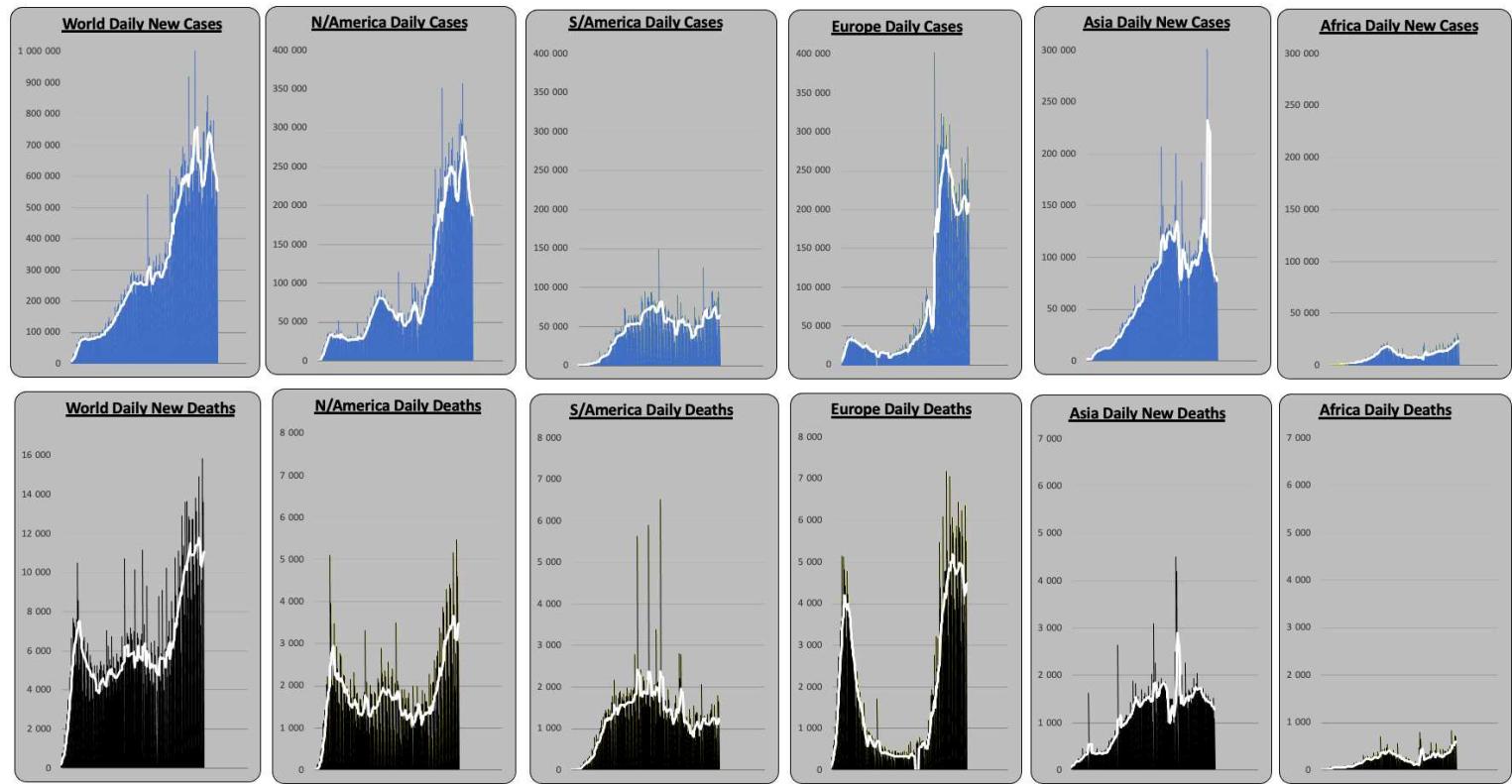
10 Day Moving Average of Daily Deaths & Cases by World Region

Page 3.0



World Data: Dailies & 7 Day MA's

Page 3.1



250 000

2018 Avg DAILY WORLD Mortalities v COVID: Daily Deaths (Linear Scales)

Avg Daily Covid Deaths 2020 to date: **5772**
 Highest Daily Covid Deaths 2020 to date: **17654**
 Latest Daily Covid Deaths 2020 to date: **15354**

Red line =
Reported Covid
Deaths.

200 000

150 000

100 000

50 000

0

01-JAN 13-JAN 25-JAN 06-FEB 18-FEB 01-MAR 13-MAR 25-MAR 06-APR 18-APR 30-APR 12-MAY 24-MAY 05-JUN 17-JUN 29-JUN 11-JUL 23-JUL 04-AUG 16-AUG 28-AUG 09-SEP 21-SEP 03-OCT 15-OCT 27-OCT 08-NOV 20-NOV 02-DEC 14-DEC 26-DEC 07-JAN 19-JAN 31-JAN 12-FEB 24-FEB 08-MAR 20-MAR



Black line =
expected avg
annual Deaths
as per white
block data

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 are TOTAL Daily Avg Deaths from ALL causes over a full calendar year.

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 per week numbers.

500.0

2017 Avg DAILY RSA Mortalities v COVID Daily Deaths (Linear Scales)

Avg Daily Covid Deaths since 1st Death 2020 to date: **99**
 Highest Daily Covid Deaths 2020 to date: **1374**
 Latest Daily Covid Deaths 2020 to date: **630**

Excess Deaths
at
16 Jan

Red line =
Reported daily
Covid Deaths.

Blue line =
Excess Deaths
(see Pg 5)

Black line =
expected avg
daily Deaths as
per white block
data

450.0

400.0

350.0

300.0

250.0

200.0

150.0

100.0

50.0

0

01-JAN 13-JAN 25-JAN 06-FEB 18-FEB 01-MAR 13-MAR 25-MAR 06-APR 18-APR 30-APR 12-MAY 24-MAY 05-JUN 17-JUN 29-JUN 11-JUL 23-JUL 04-AUG 16-AUG 28-AUG 09-SEP 21-SEP 03-OCT 15-OCT 27-OCT 08-NOV 20-NOV 02-DEC 14-DEC 26-DEC 07-JAN 19-JAN 31-JAN 12-FEB 24-FEB 08-MAR 20-MAR



Data as at:

29 January 2021

Unless otherwise indicated

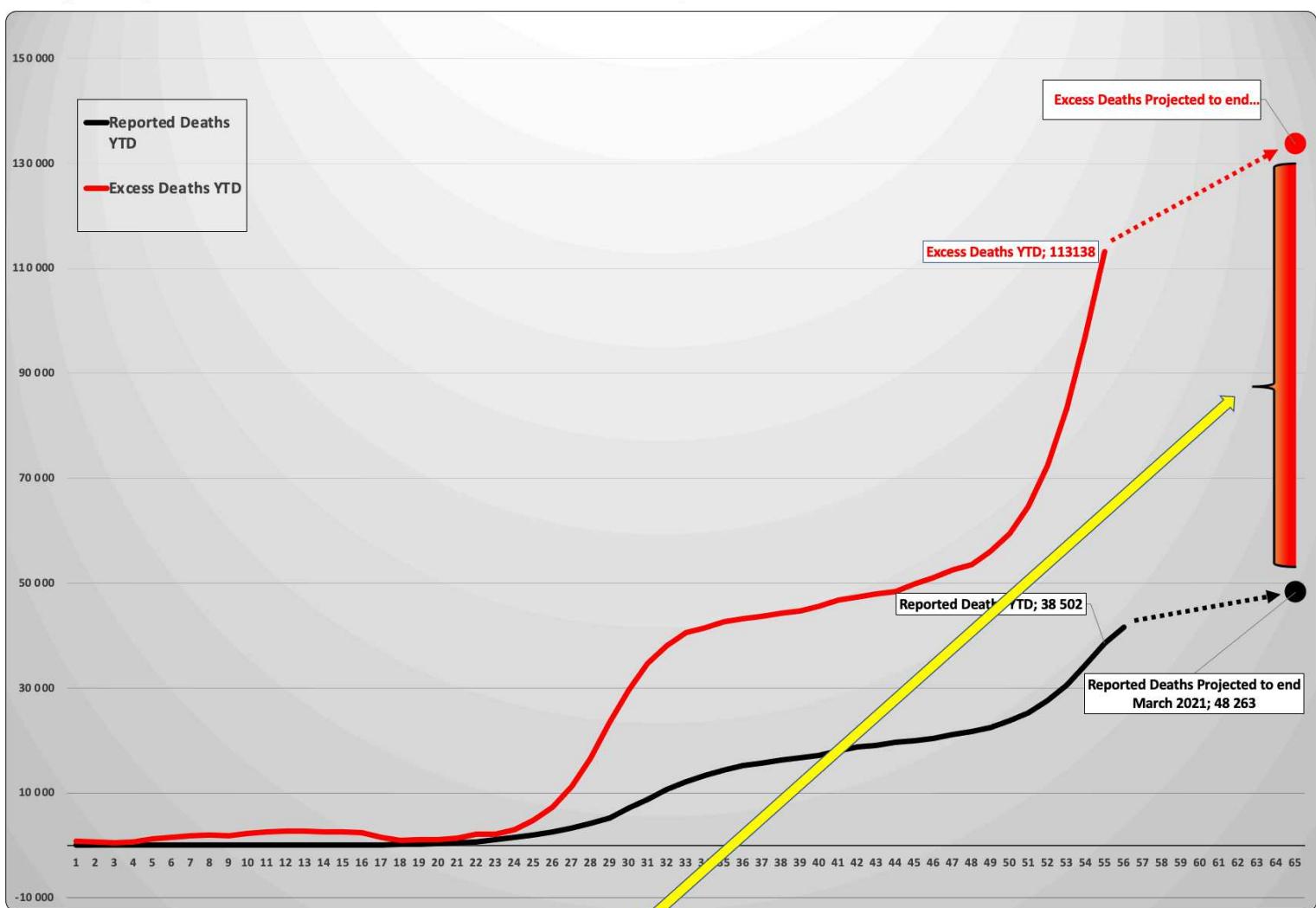
hdp 30 January 2021

Covid Deaths: Reported and Excess Deaths

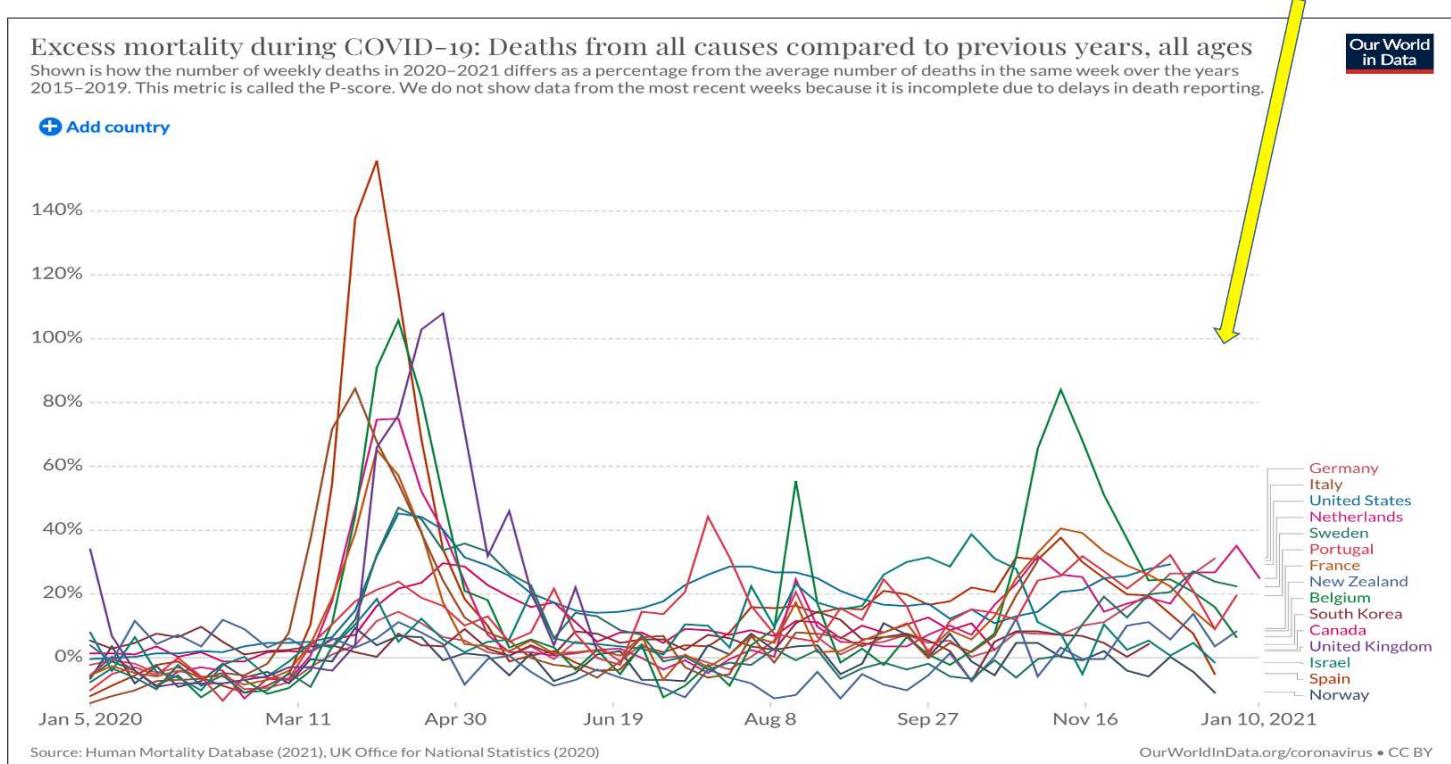
Page 3.3

Trends & Projections for end March 2021

(See Pg 5 for more details on RSA Excess Deaths)

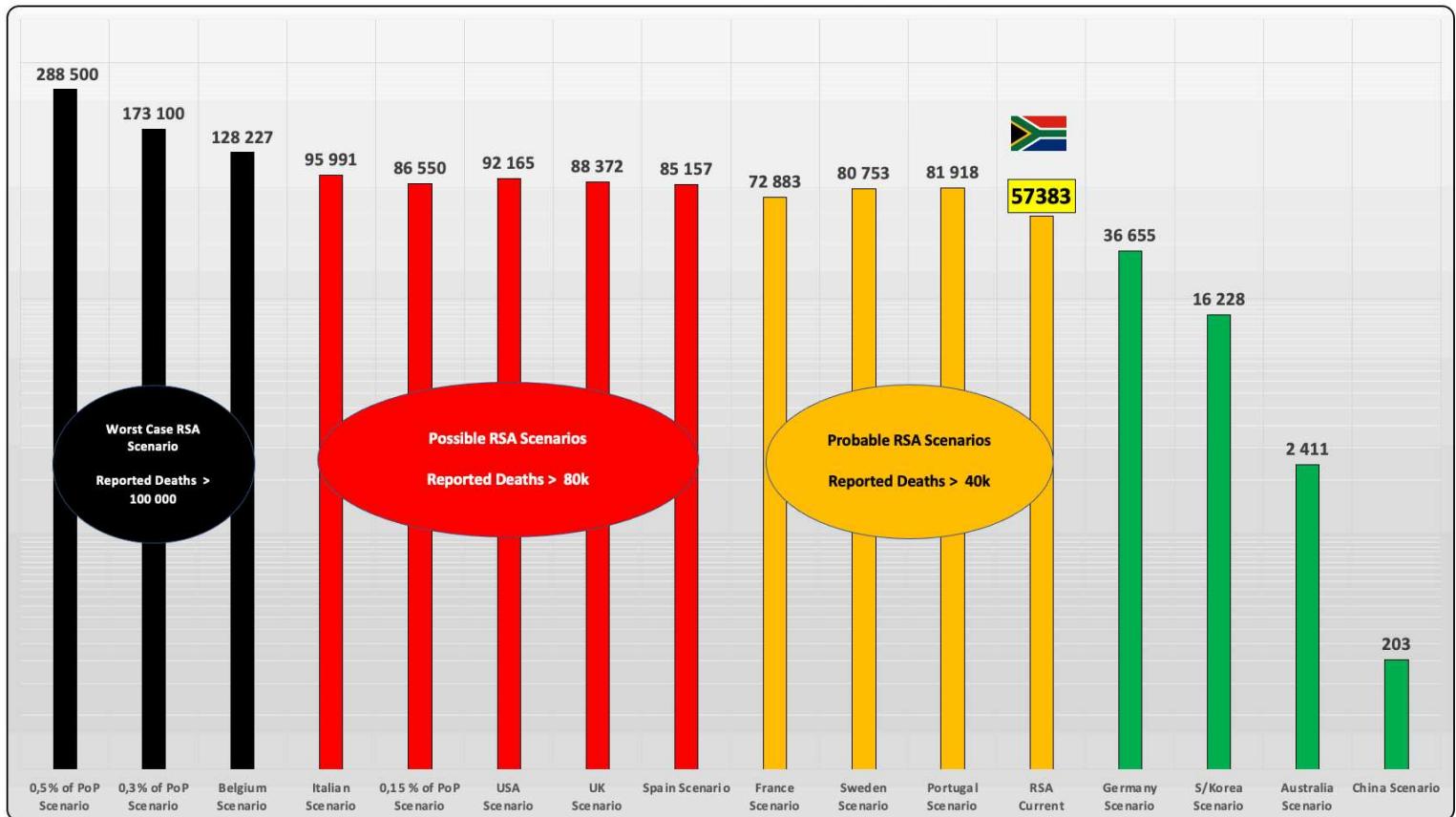


Selected Countries avg approx 15%



RSA Covid Mortality Scenarios & Projections for end Mch 2021 (390 day cycle)

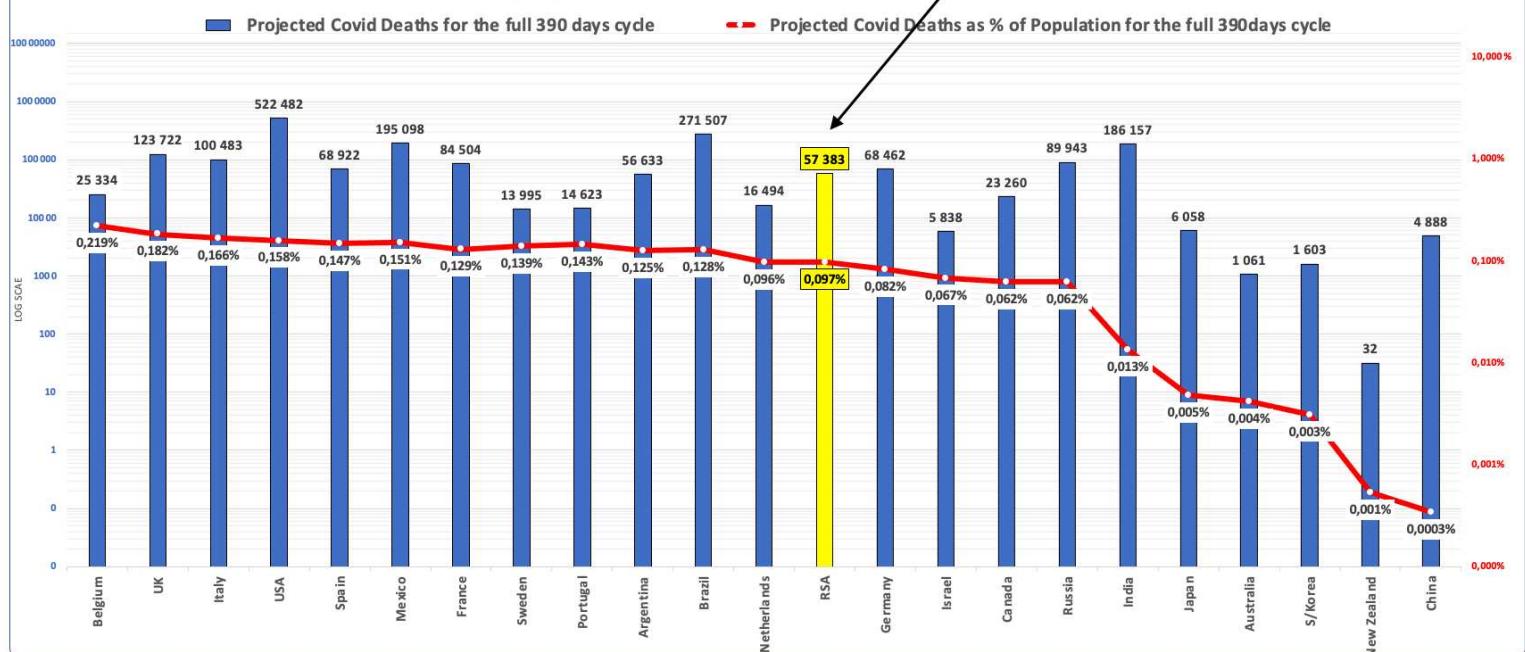
15 Scenarios and 1 Projection (Log Scale)

**Key:**

All Scenarios duly adjusted daily for population size and for the different timelines into the deemed 390 day pandemic cycle.

This number is simply the avg daily Deaths as reported to date x 390 (deemed cycle).

Projected Deaths by end Mch 2021 per country and % Deaths per Country Populations at current officially reported Death Numbers as reported by WHO (no "Excess" deaths)



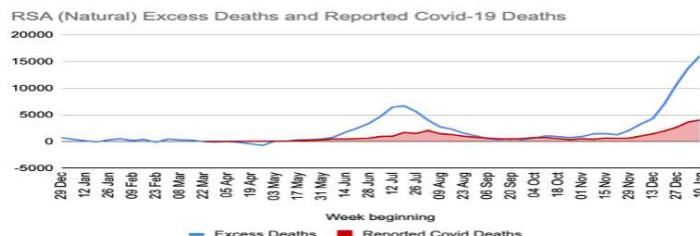
Note: Above Mortality %'s are overall projected mortality of the populations (PMR), NOT deaths of only those infected (CFR).

RSA Excess Deaths as per SA Medical Research Council

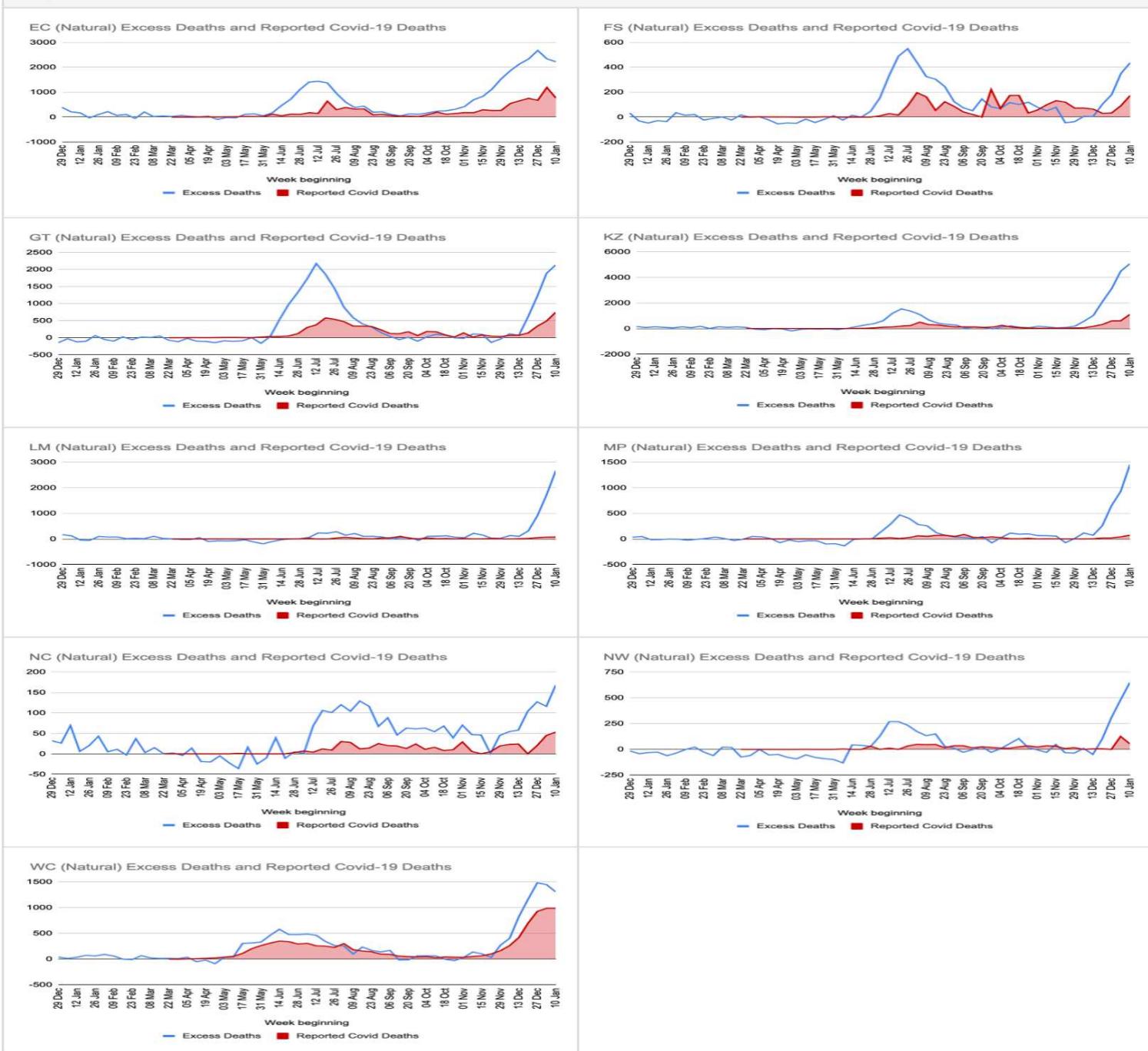
Data as at:

16 January 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.



Provinces



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 so-called "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).

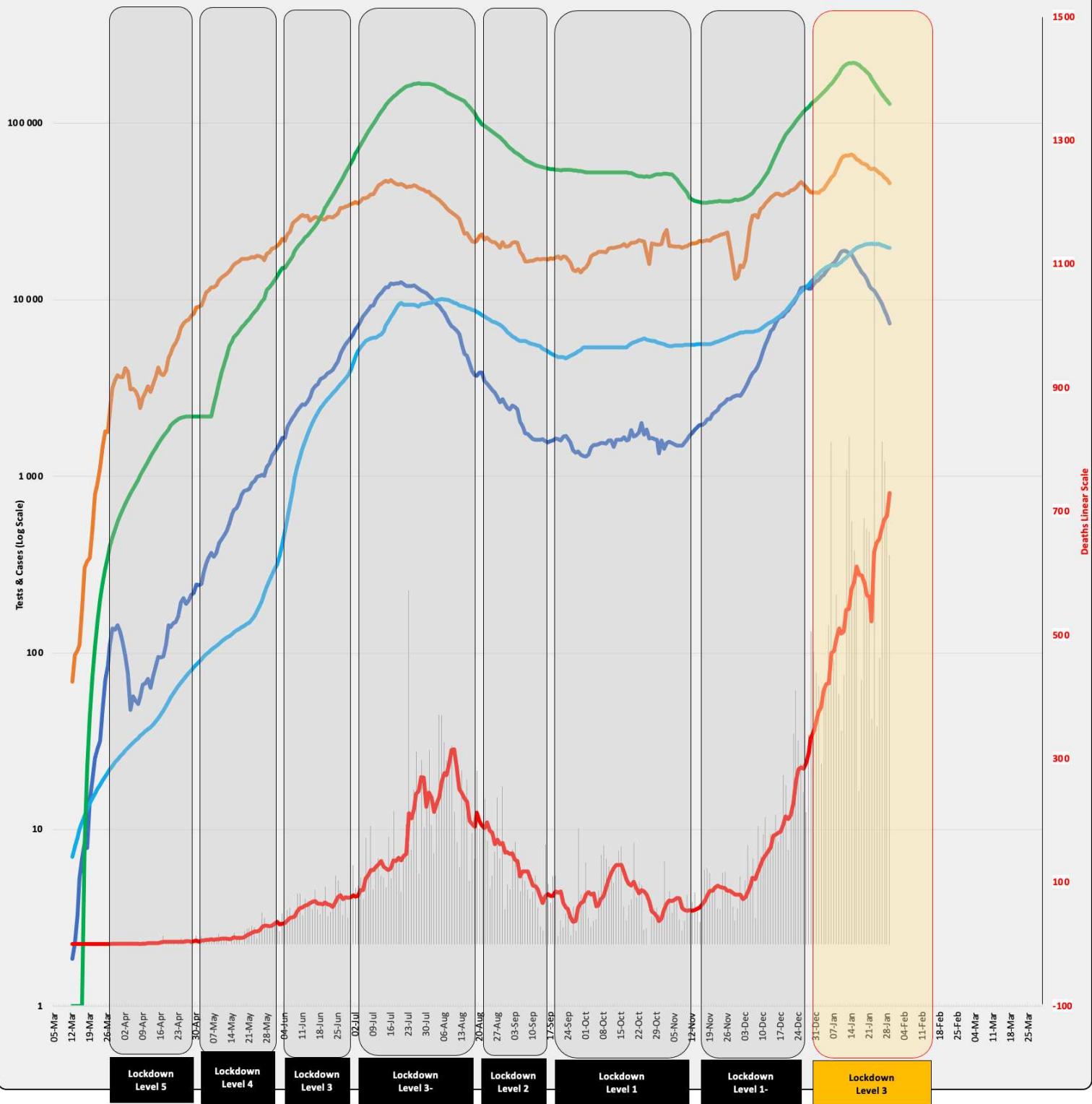
Data as at:

Latest Available

hdg 30 January 2021

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

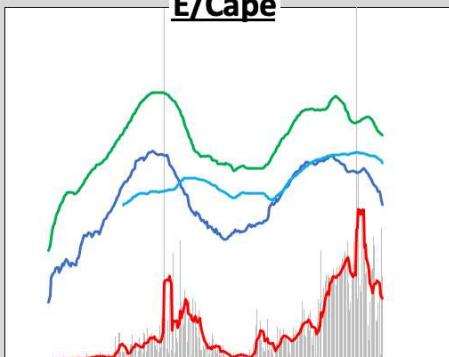
— Daily Tests — Daily Cases — In Hospital — Active Cases — Daily Deaths



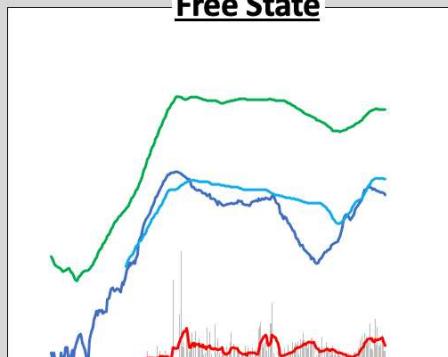
RSA Provinces Daily Cases/Hospitals/Actives/Deaths (7 Day MA)

— Daily Cases — In Hospital — Active Cases — Daily Deaths

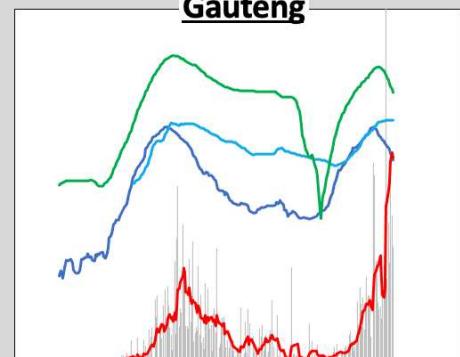
E/Cape



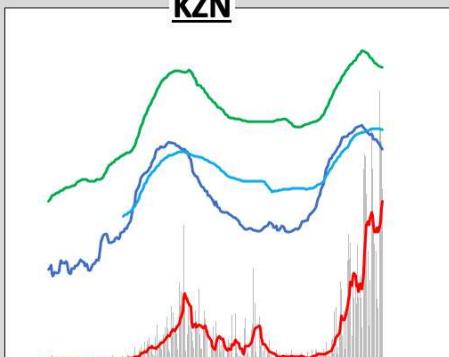
Free State



Gauteng



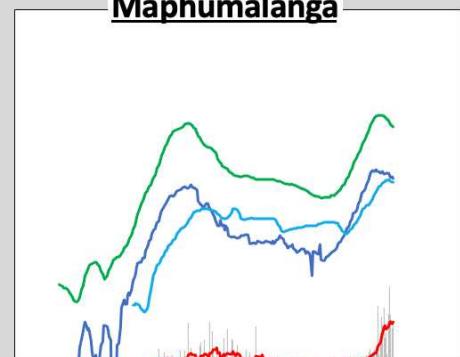
KZN



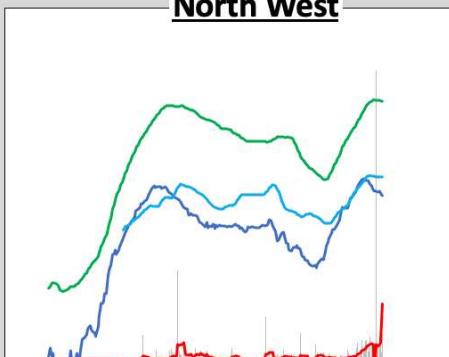
Limpopo



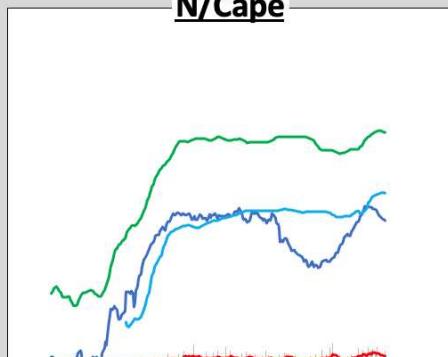
Maphumalanga



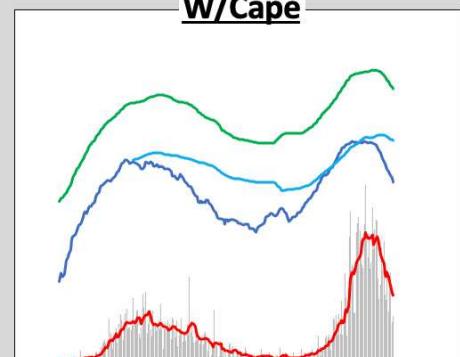
North West



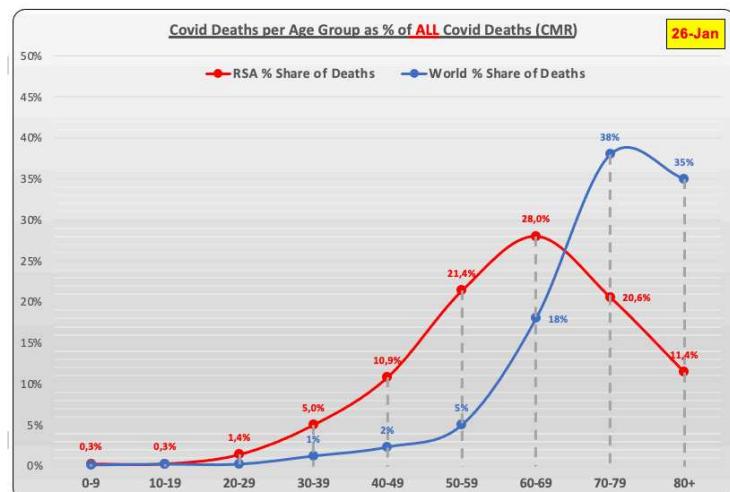
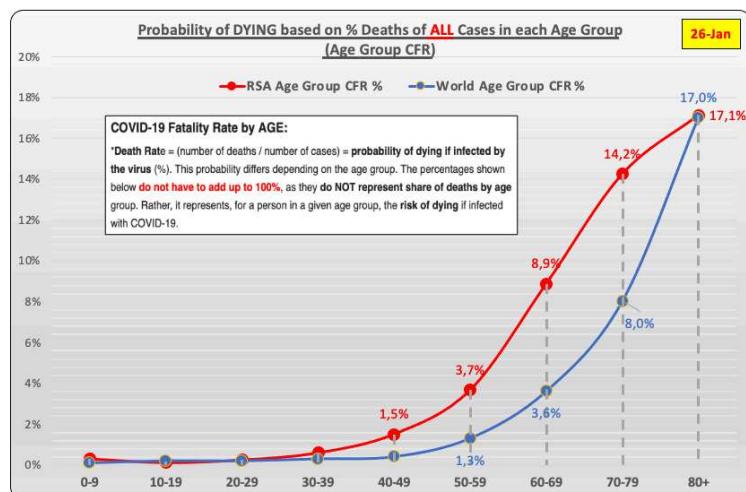
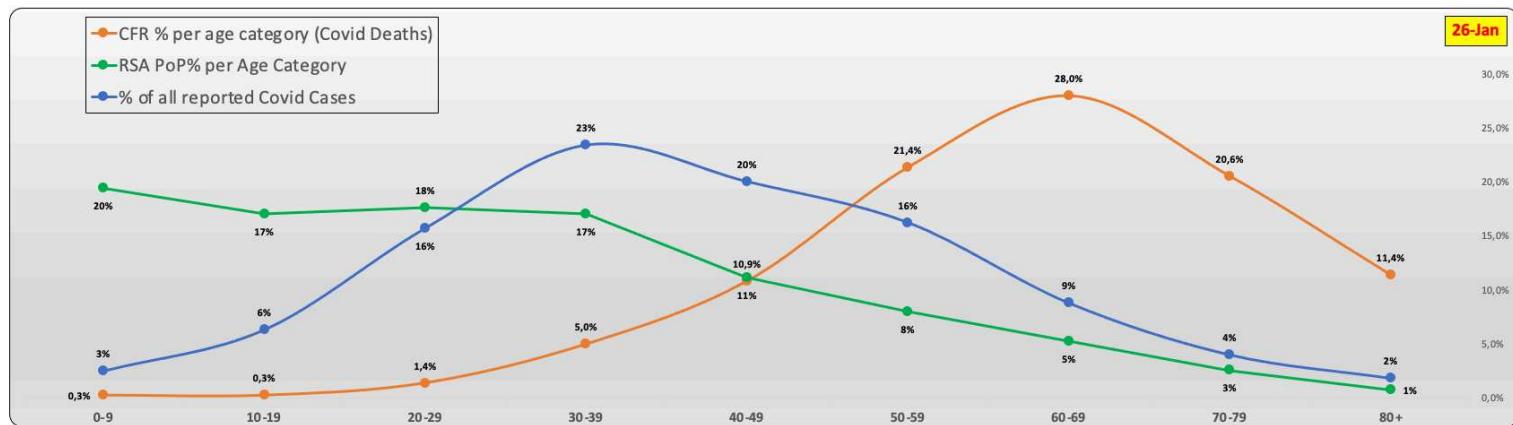
N/Cape



W/Cape

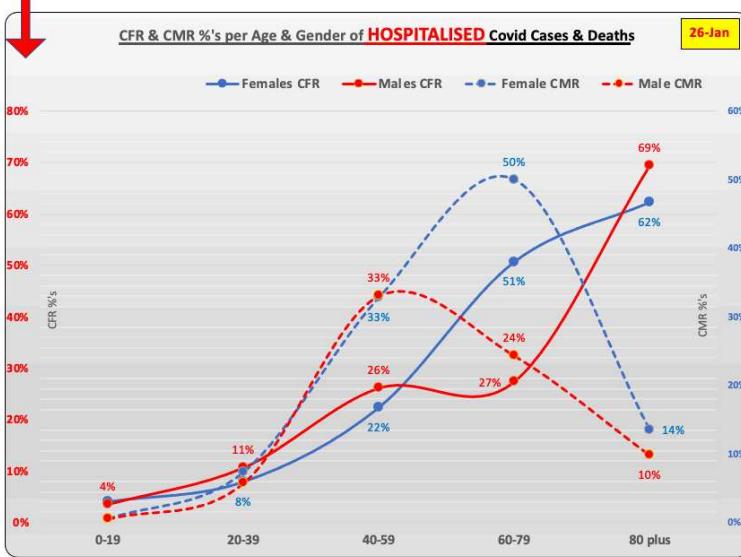
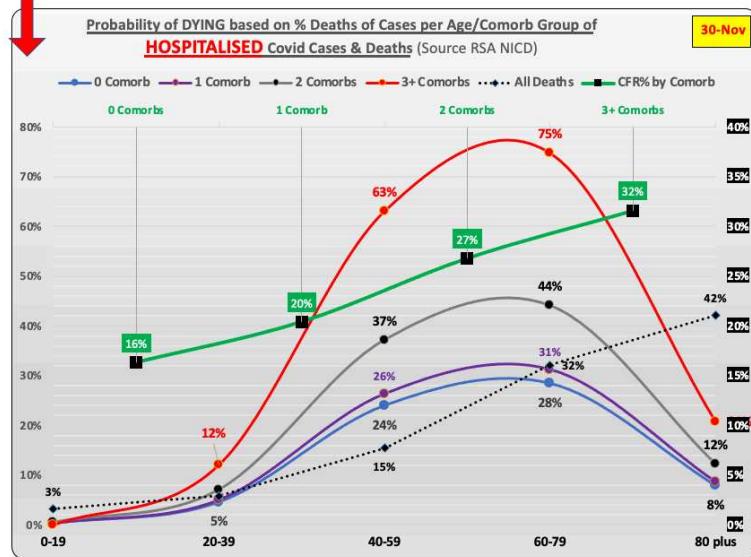


RSA Age & Gender Stats

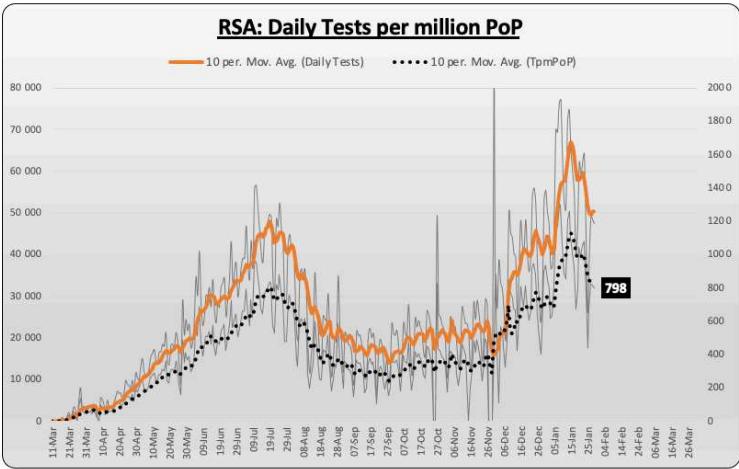


COVID-19 Fatality Rate by AGE:

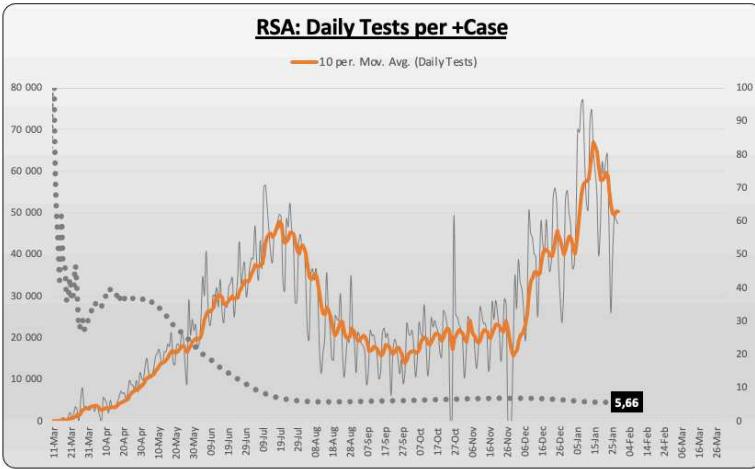
*Death Rate = (number of deaths / number of cases) = probability of dying if infected by the virus (%). This probability differs depending on the age group. The percentages shown below do not have to add up to 100%, as they do NOT represent share of deaths by age group. Rather, it represents, for a person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



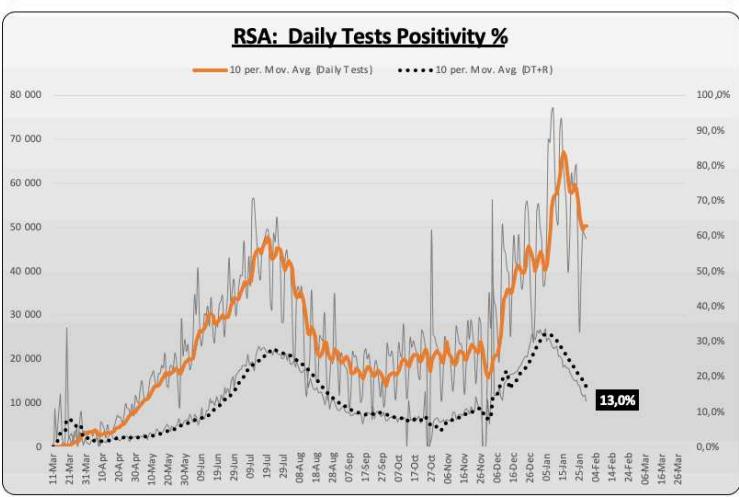
RSA: Daily Tests per million PoP



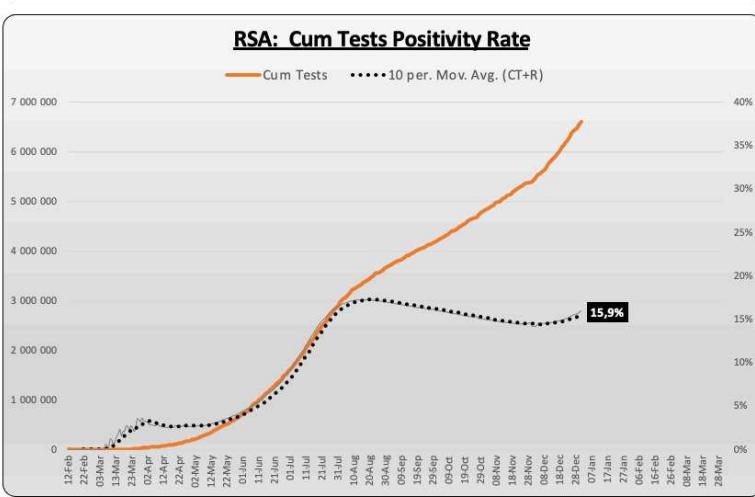
RSA: Daily Tests per +Case



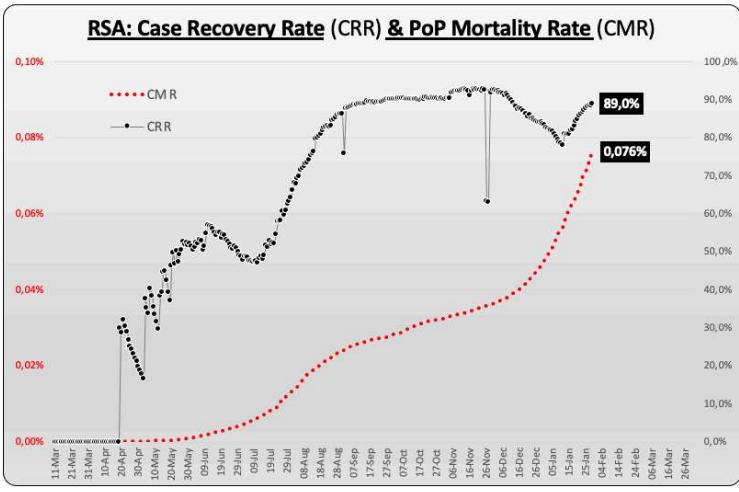
RSA: Daily Tests Positivity %



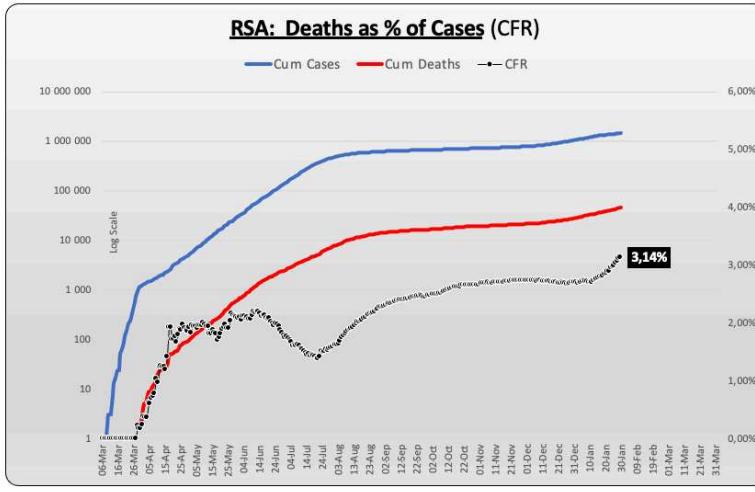
RSA: Cum Tests Positivity Rate



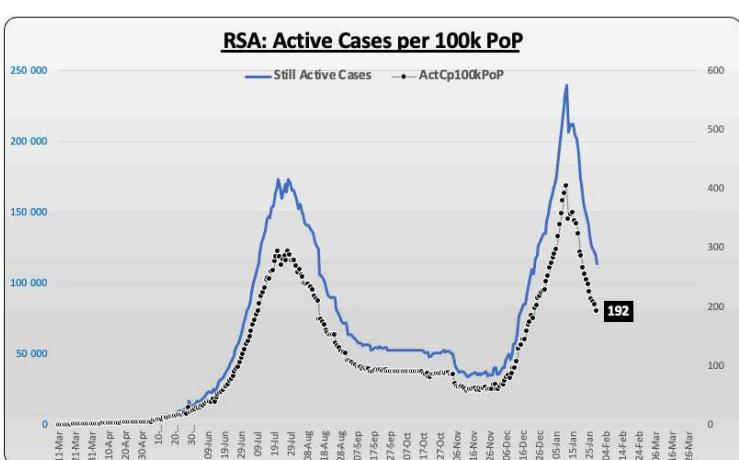
RSA: Case Recovery Rate (CRR) & PoP Mortality Rate (CMR)



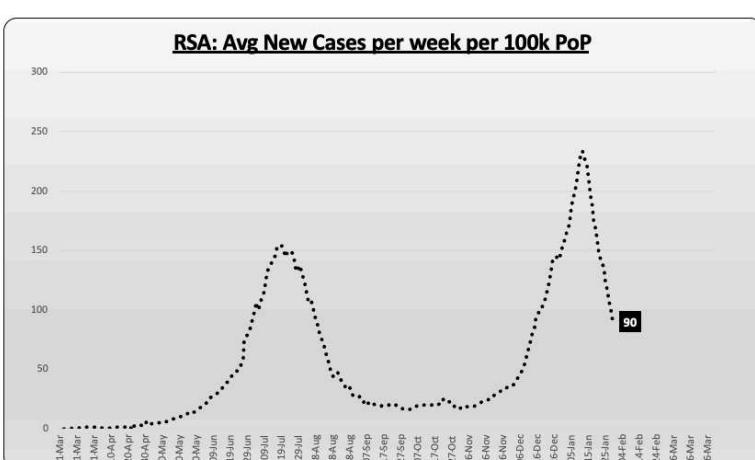
RSA: Deaths as % of Cases (CFR)



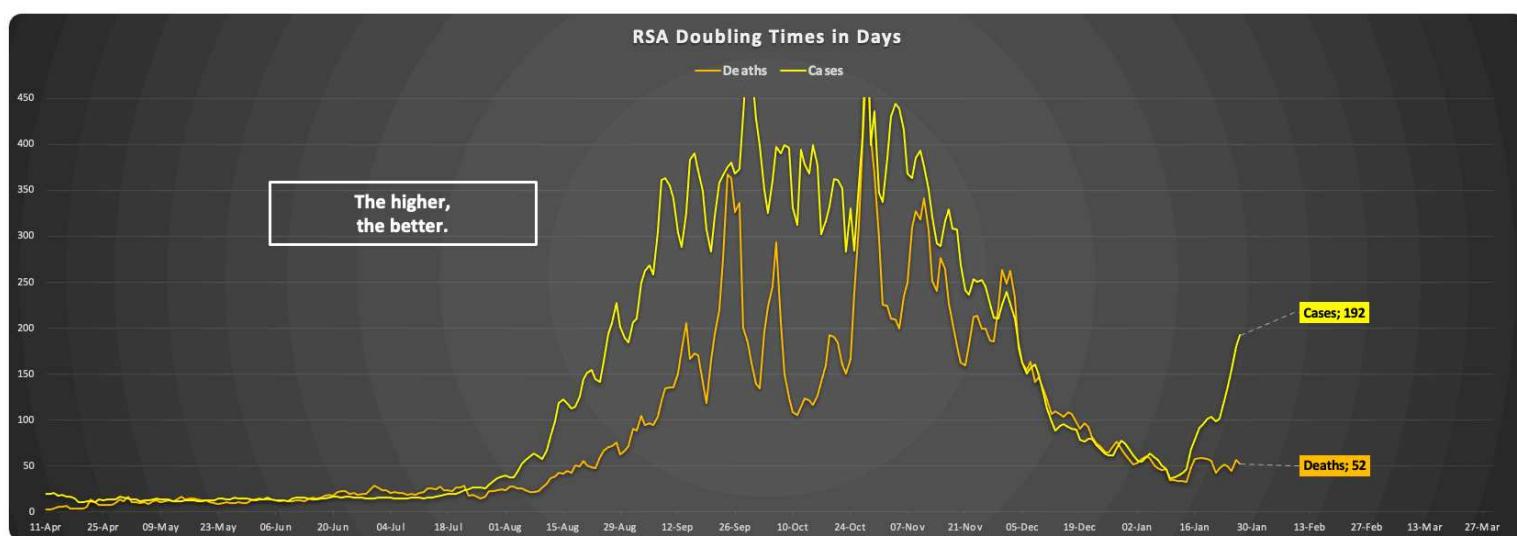
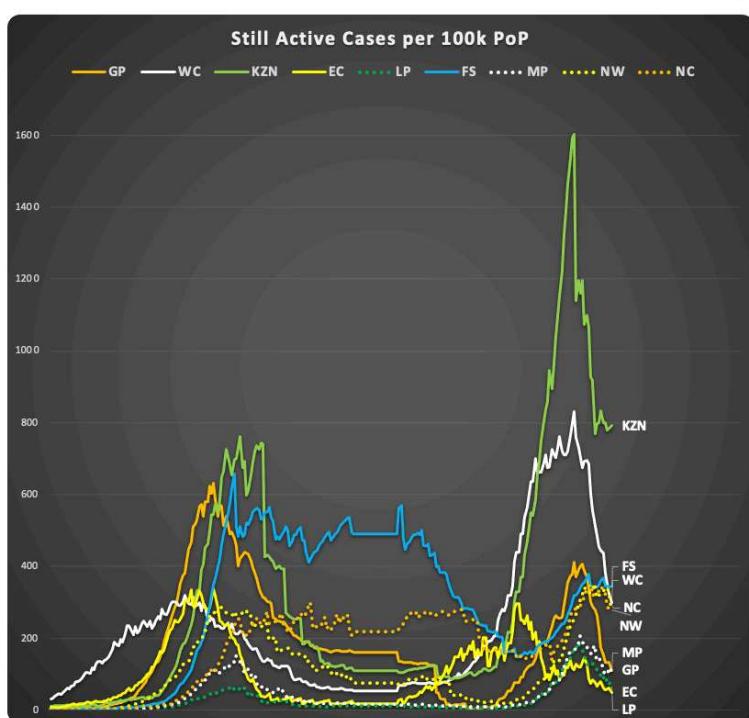
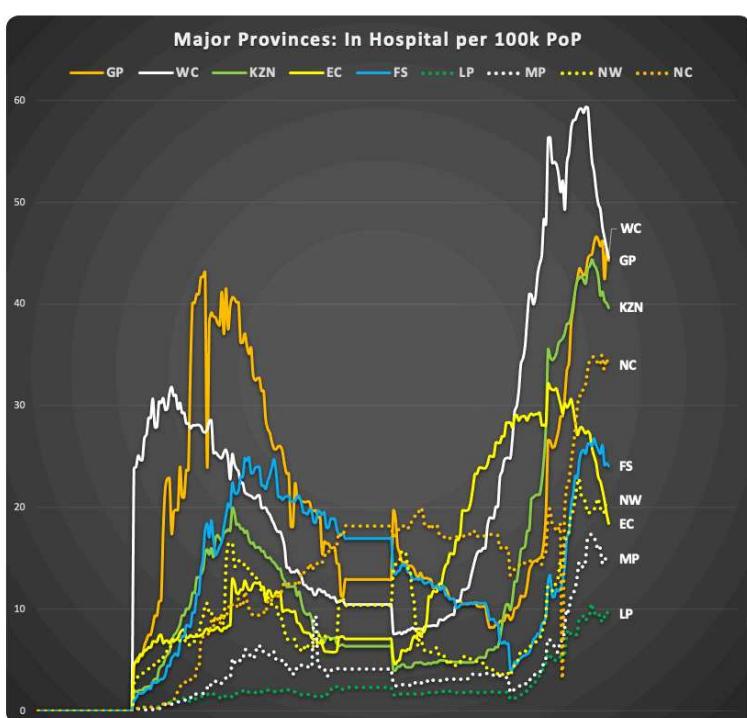
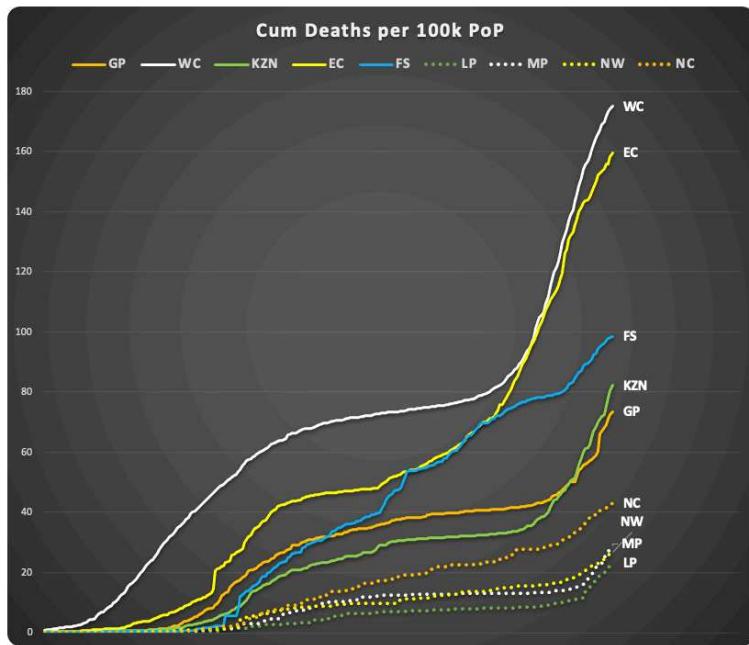
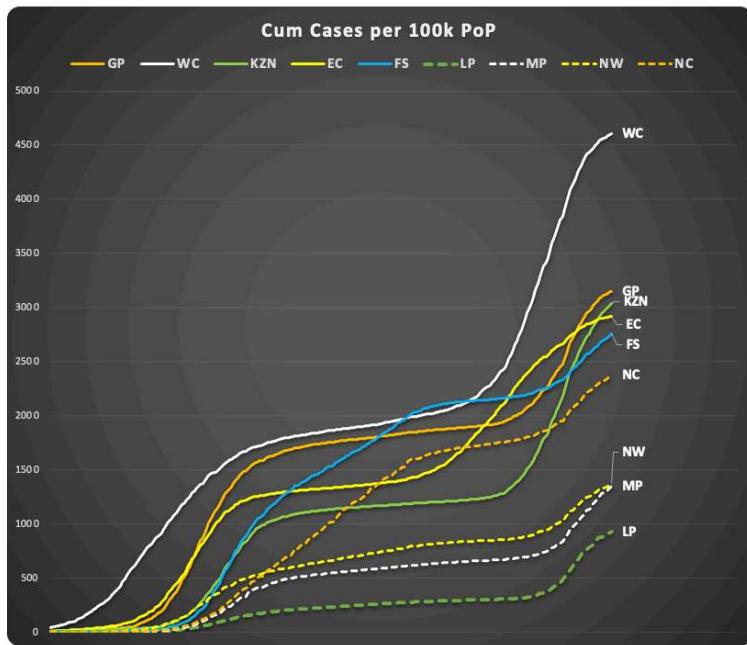
RSA: Active Cases per 100k PoP



RSA: Avg New Cases per week per 100k PoP



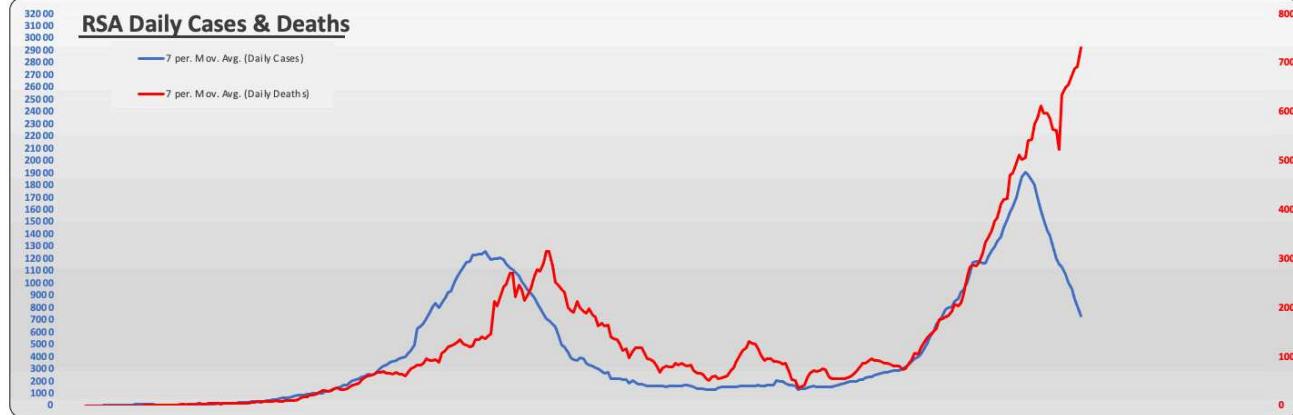
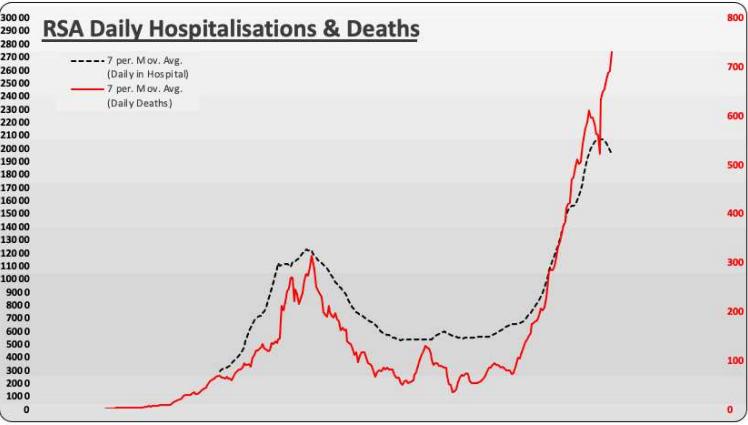
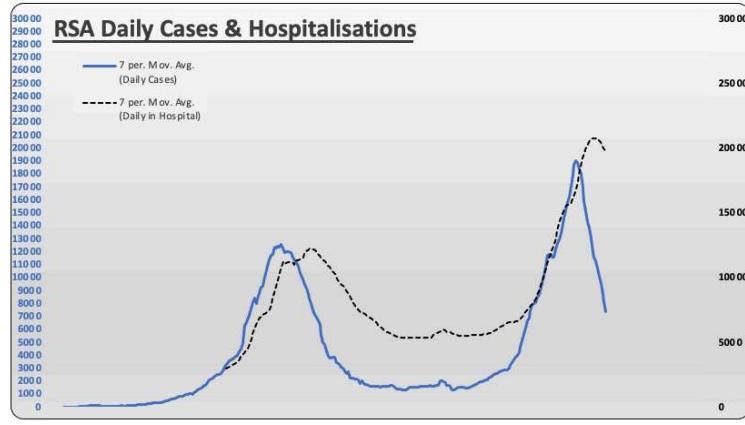
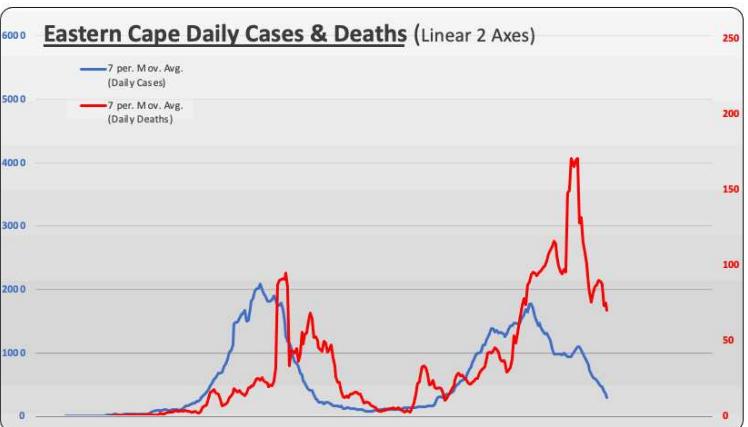
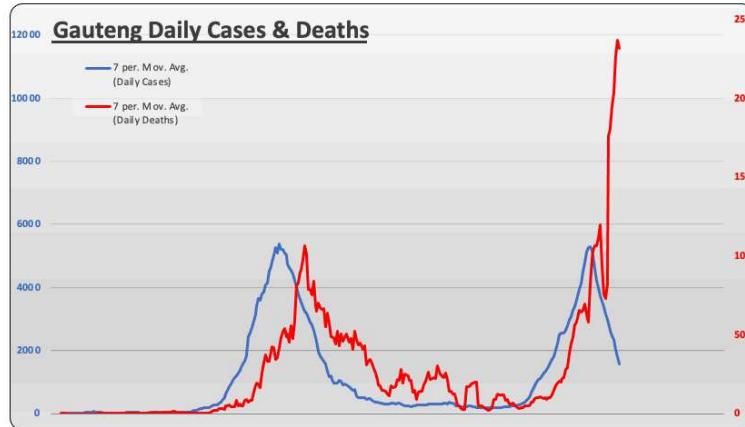
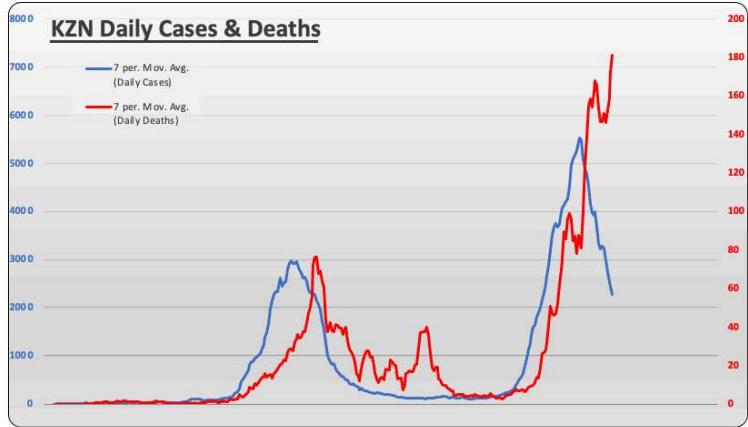
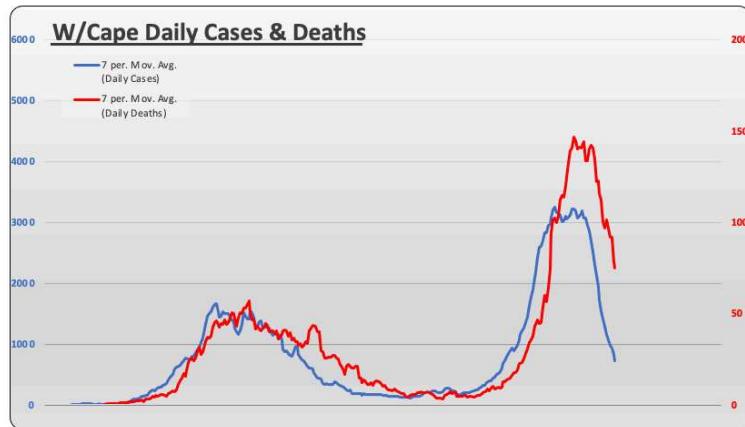
All linear scales



RSA & Major Provinces:

1st Wave v 2nd Wave

The Y-axes scales have been adjusted in order to get the 1st Wave Cases/Hospitalisations & Deaths peaks aligned. The unfolding 2nd Wave curves should therefore give a good indication of the 2nd Wave's rate of infection spread and severity resulting in fatalities.



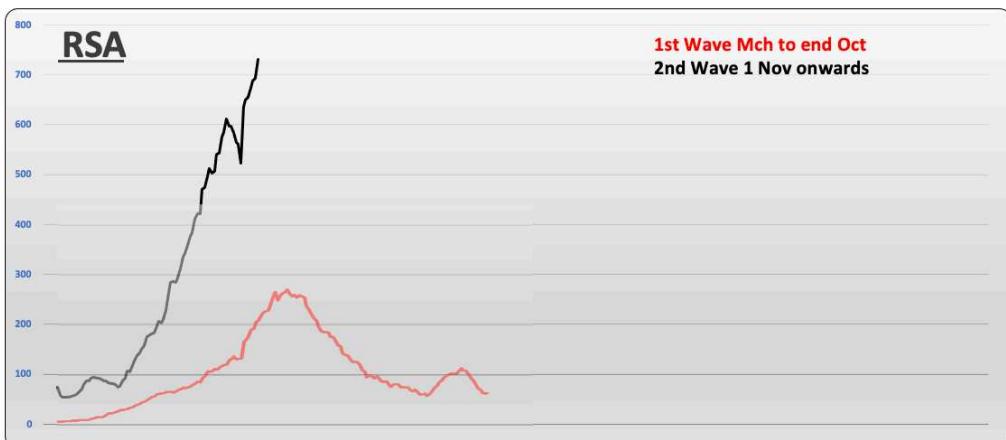
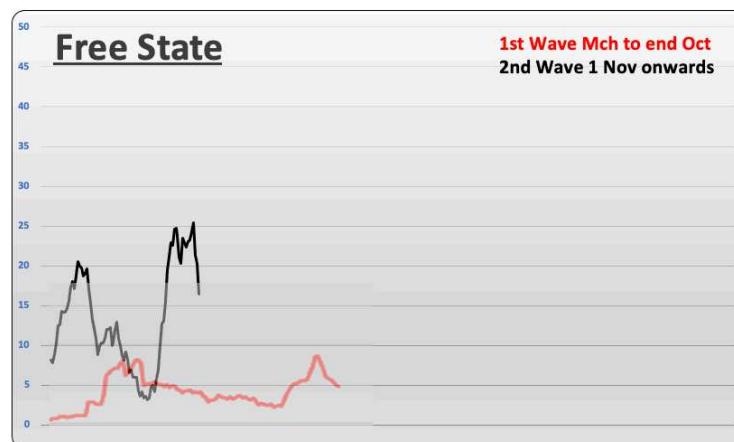
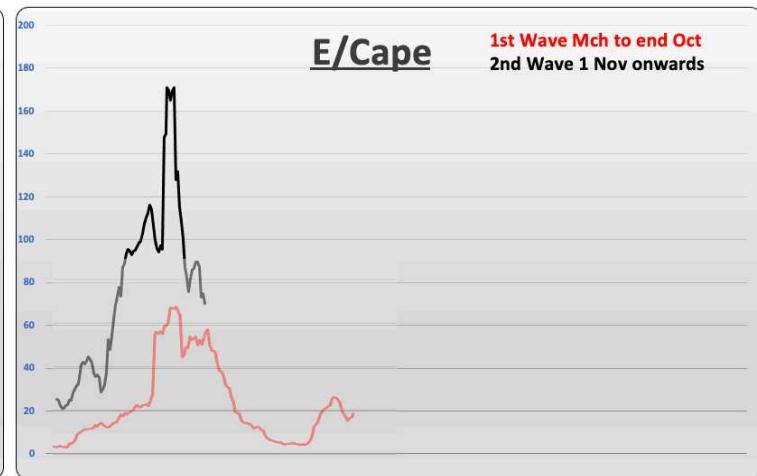
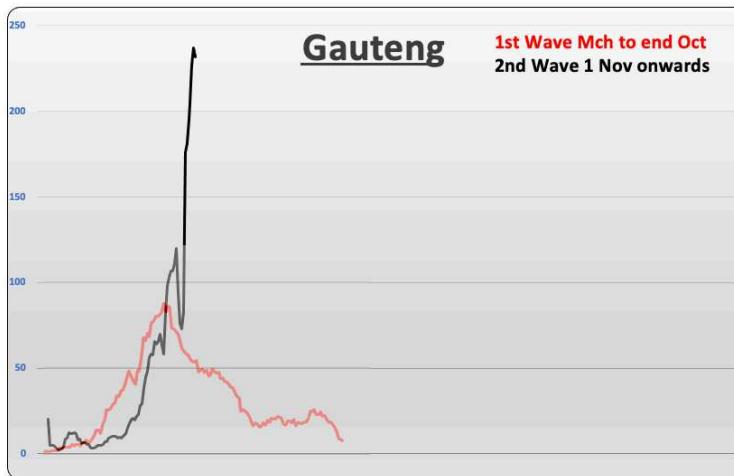
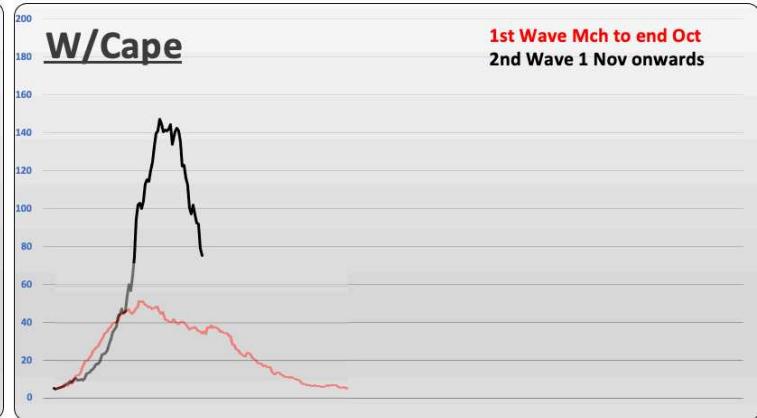
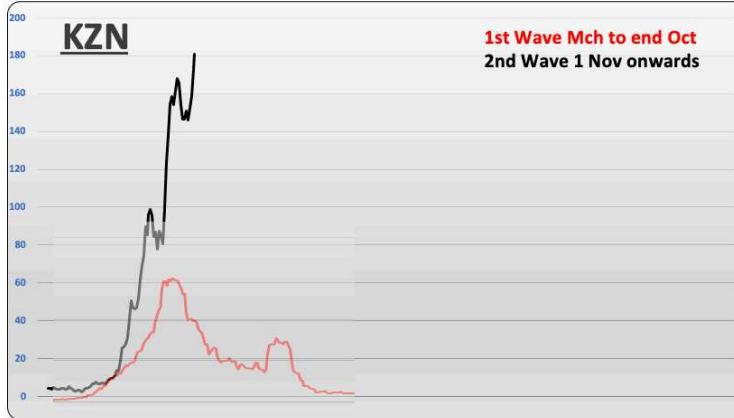
What are these graphs telling us ? (Ignore the numbers, look purely at the inclines and amplitudes).

- 1) The Cases and Deaths curves are almost identical, except for the approx 2 week delay in Deaths occurring.
- 2) There is possibly a problem with the ECape Case reporting. Their Deaths Curve is way ahead of their Cases Curve. Could be due to full hospitals and patients being referred to WC & KZN, but Deaths still attributed to ECape ? If the ECape Cases numbers are correct then the CFR (Fatality Rate) for the 2nd Wave is extremely high !! This is not borne out by the WCape and/or KZN data.
- 3) The WCape & KZN and even the Gauteng curves are exactly as one would expect, unfortunately their relative amplitudes does not bode well for Gauteng and the rest of the country.
- 4) The bottom right graph shows Hospital Capacity under serious strain.

RSA & Major Prov's Daily Deaths:

1st Wave v 2nd Wave (Cont..) 7 Day MA's

The X-axes scales have been adjusted in order to get the 1st & 2nd Wave Deaths aligned onto the same timeline. The unfolding 2nd Wave curves should therefore give a good indication of the 2nd Wave's rate of infection spread and severity resulting in fatalities.



Vaccination Data

RSA: Vaccinations per 100k PoP :

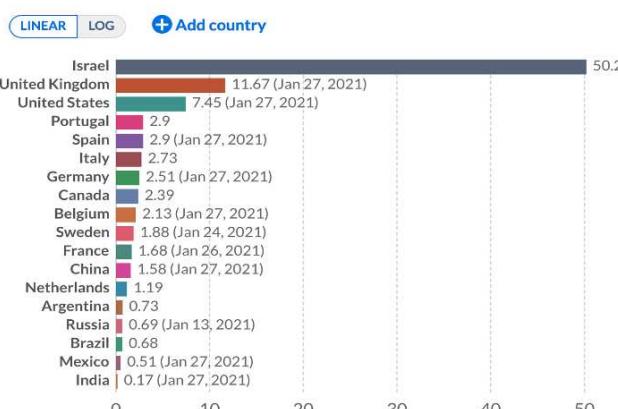


Selected countries who publish their VAC data :

COVID-19 vaccine doses administered per 100 people, Jan 28, 2021

Total number of vaccination doses administered per 100 people in the total population. This is counted as a single dose, and may not equal the total number of people vaccinated, depending on the specific dose regime (e.g. people receive multiple doses).

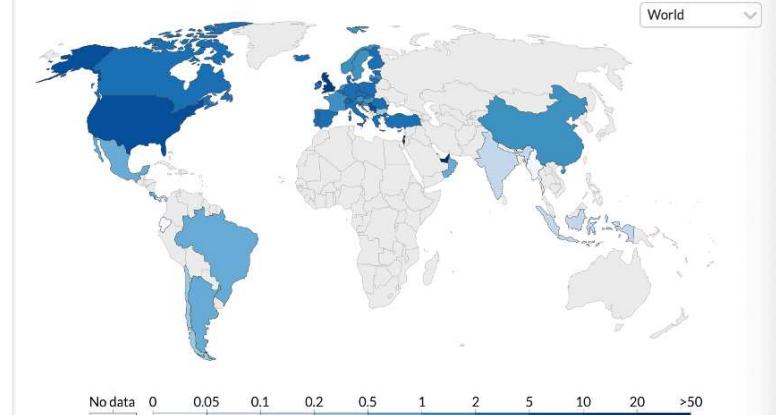
Our World in Data



Source: Official data collated by Our World in Data – Last updated 28 January, 19:00 (London time)

COVID-19 vaccine doses administered per 100 people, Jan 28, 2021

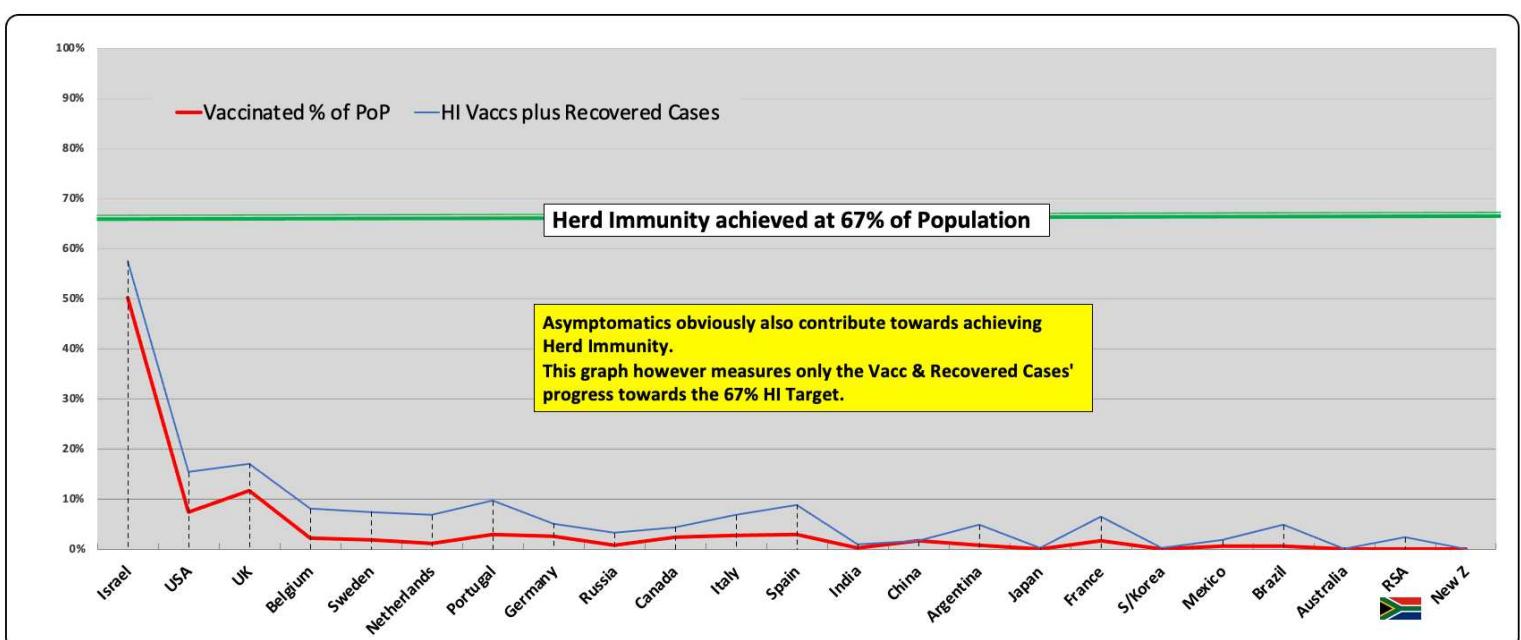
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Source: Official data collated by Our World in Data – Last updated 28 January, 19:00 (London time)

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Selected Countries' Progress towards Herd Immunity (HI) :



Laughter is the best vaccine....



THE New NORMAL?

