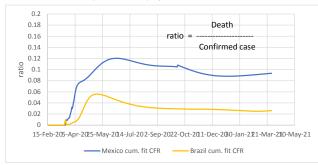
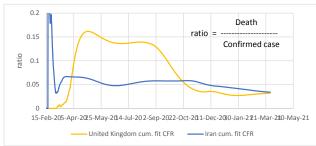
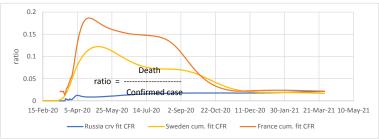
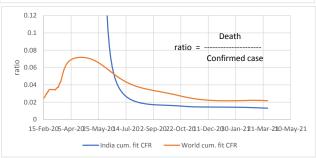
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

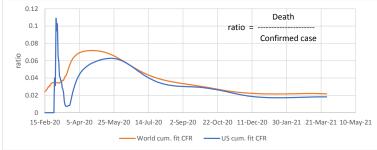




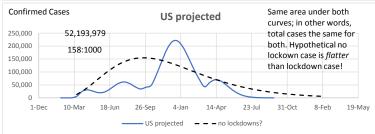


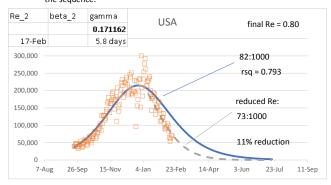


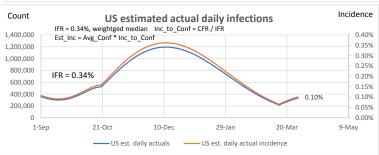




Demonstration of SIR model where $R_{\,e}$ is linearly reduced to 0.80 at the end of the sequence:



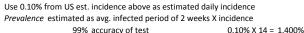




Reducing the R $_{\it e}$ while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. Seems to indicate timing of start of measures is a big factor. The orange data taken as without measures, but we know certain measures were taken. Hard to determine effect, without a basis of comparison.

excess deaths

False Positives Demonstration



99% accuracy of test Positive Negative 2 37% test pos 1 386% 0.986% 0.014% 97.614% 97.63% test neg 1.400%

8	excess deaths	of 2017 - 2019 deaths.
6		700
4	A server	
2	3000	24474
0		
-2		

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

→3 yr prior avg. → 2020 → 2021

Excess normalized to std dev

False pos. is less than half of total positives. TRUE + 1.386%/2.37% 58.4% FALSE + 0.986%/2.37% 41.6% 100.00%

https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

Baseline set at **Z** = 0

Counter-act this tendency by increasing test sensitivity. However this may increase false negatives, the recipients of which may be positive, think they're negative, and go spread it around some more.

100.00%

Provisional COVID-19 Death Counts 85 years and over 75-84 years 65-74 years 50-64 years 55-64 years rsq = 0.992 45-54 years 35-44 years https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku/data 15-24 years 10% 15% 25% 30% ■ Total deaths ■ Covid deaths

USA Excess Deaths (from CDC data):

Annualized on 52 weeks

	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2020	1013:100,000	903:100,000	-
Diff.	154:100,000	44:100,000	110:100.000

3 yr average 859:100,000

28% of All-Cause excess deaths are non-CV19

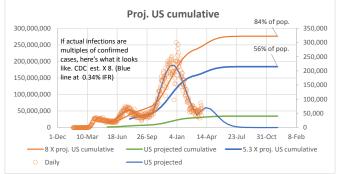
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

 $K = 0.318 R_o$:

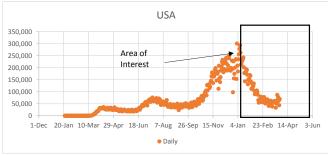
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ gamma = 0.286 $R > 1 - 1/R_o = 3.04$

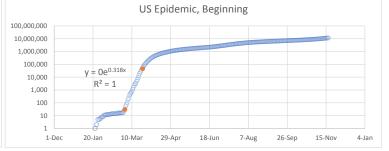
84% <=Herd immunity

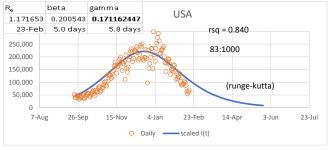
R is recovered variable.

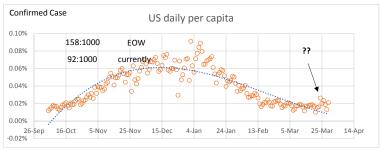


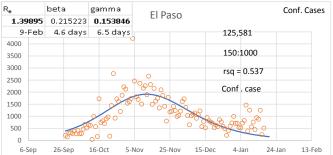
Here are some demonstrations of SIR model, using Re, gamma, and beta

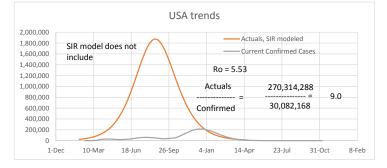


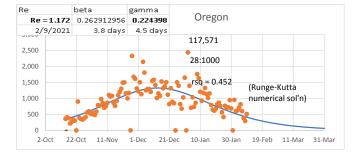


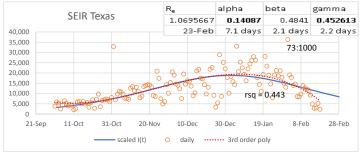


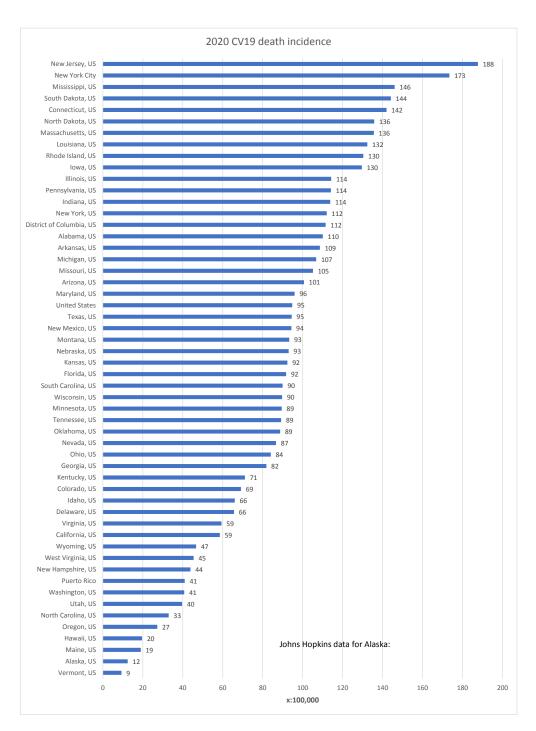












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$