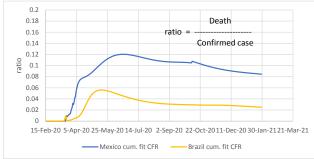
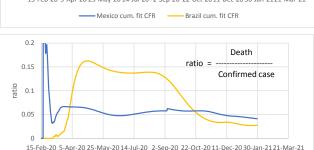
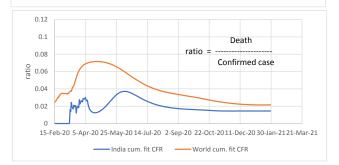
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

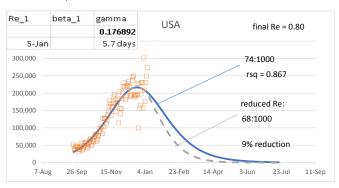


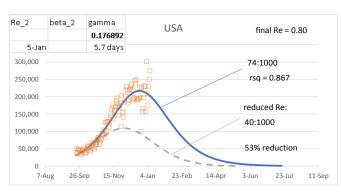


United Kingdom cum. fit CFR

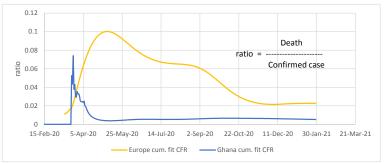


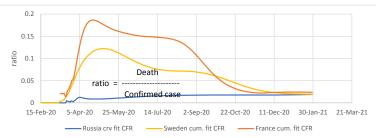
Demonstration of SIR model where R $_{e}$ is linearly reduced to 0.80 at the end of the sequence:

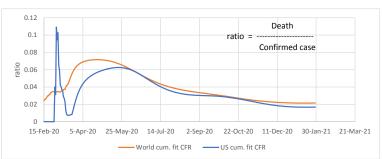


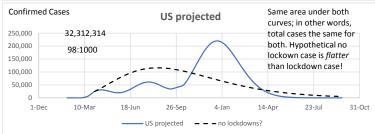


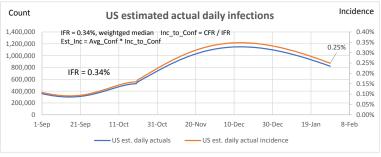
Reducing the R_e while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. Seems to indicate timing of start of measures is a big factor. The orange data taken as without measures, but we know certain measures were taken.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











0.25% X 14 = 3.500%

False Positives Demonstration

Use 0.25% from US est. incidence above as estimated daily incidence *Prevalence* estimated as avg. infected period of 2 weeks X incidence

 99% accuracy of test

 Positive
 Negative

 test pos
 3.465%
 0.965%
 4.43%

 test neg
 0.035%
 95.535%
 95.57%

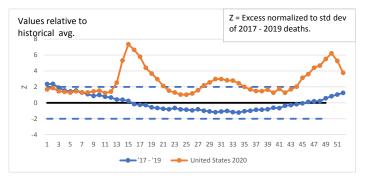
 3.500%
 96.500%
 100.00%

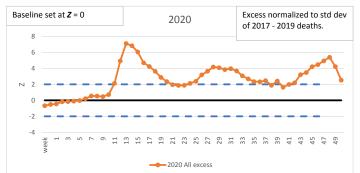
False pos. is a 1/5 of total positives.

TRUE + 3.465%/4.43

TRUE + 3.465%/4.43% 78.2% FALSE + 0.965%/4.43% <u>21.8%</u> Total 100.00%

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.





USA Excess Deaths (from CDC data):

Annualized on 52 weeks

		All Cause	All Cause, excl. CV19	CV19
3 yr average be	fore 2020	859:100,000	859:100,000	-
	2020	998:100,000	897:100,000	-
	Diff.	142:100,000	38:100,000	104:100,000

3 yr average 859:100,000

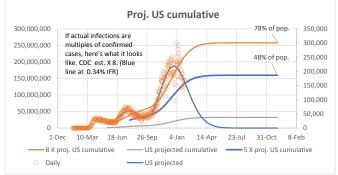
27% of All-Cause excess deaths are non-CV19

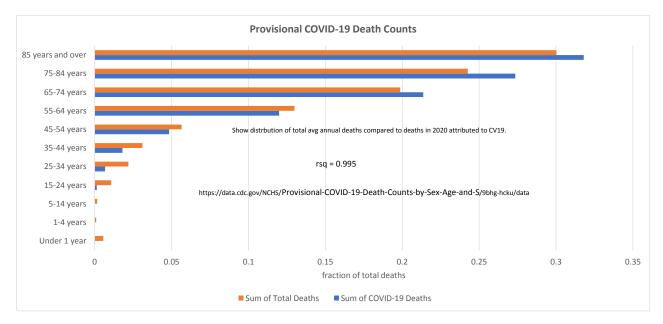
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

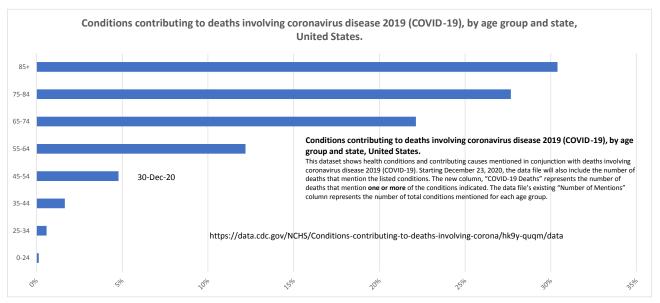
K=0.318

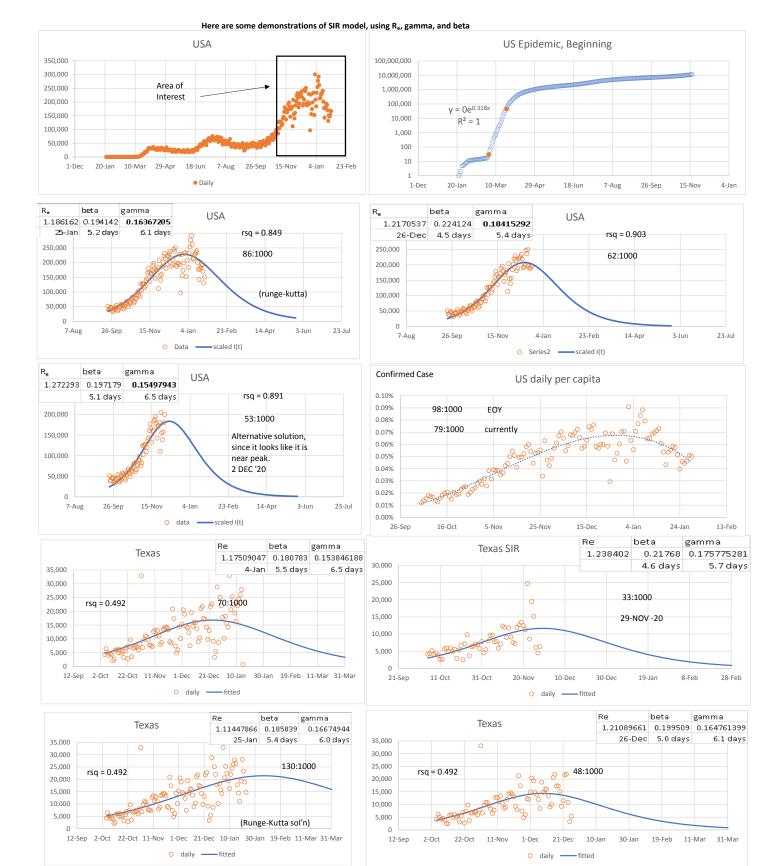
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ gamma = 0.286 $R > [1-1/R_0]/N = 3.04$ 84% <=Herd immunity

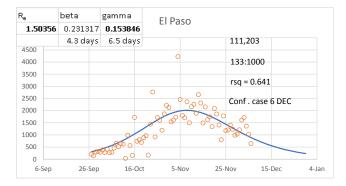
R is recovered variable.

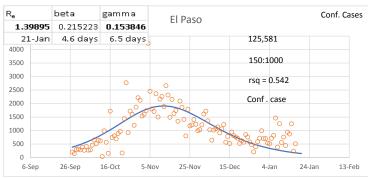


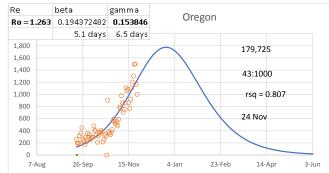


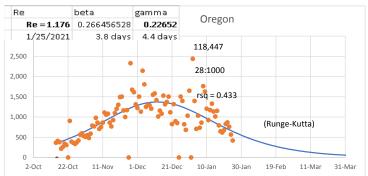


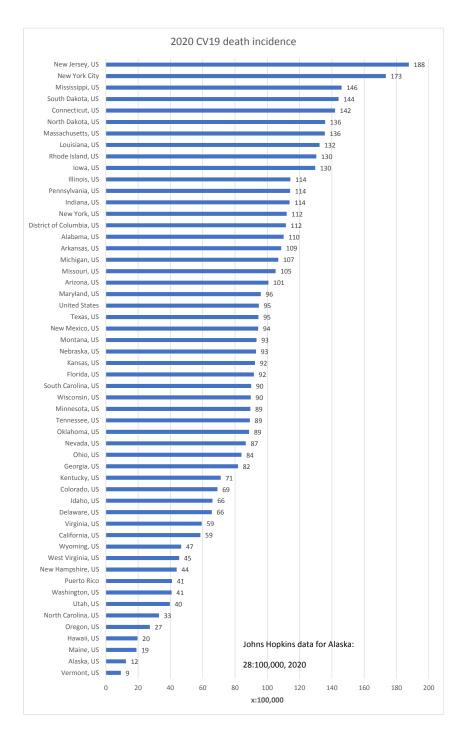












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$