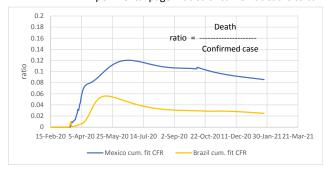
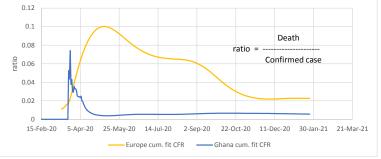
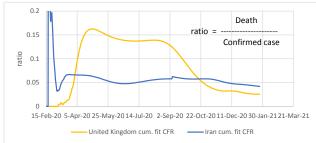
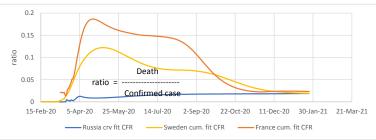
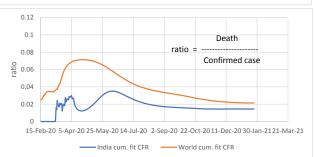
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

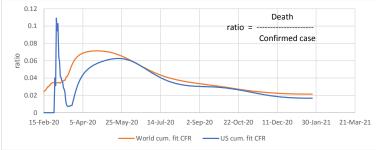




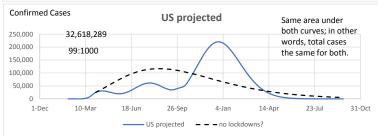


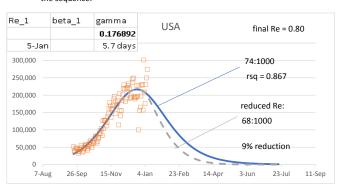


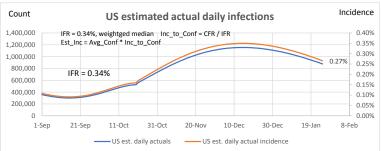




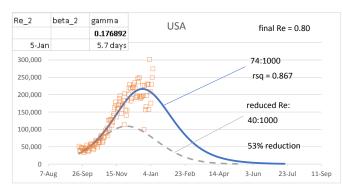
Demonstration of SIR model where  $R_{\,e}$  is linearly reduced to 0.80 at the end of the sequence:







0.27% X 14 = 3.780%



False Positives Demonstration

Use 0.27% 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
 3.742%
 0.962%
 4.70%

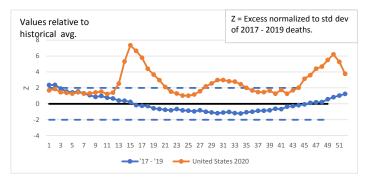
 test neg
 0.038%
 95.258%
 95.30%

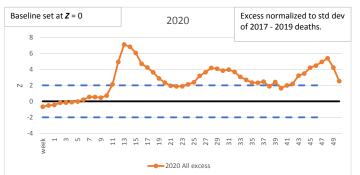
 3.780%
 96.220%
 100.00%

False pos. is a	1/5 of total positives.
TRUE +	3 742%/4 7%

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.

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 before 2020	859:100,000	859:100,000	-	
	2020	998:100,000	897:100,000	-	
	Diff	1/12:100.000	38:100.000	104:100.000	

3 yr average 859:100,000

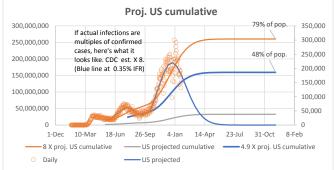
27% of All-Cause excess deaths are non-CV19

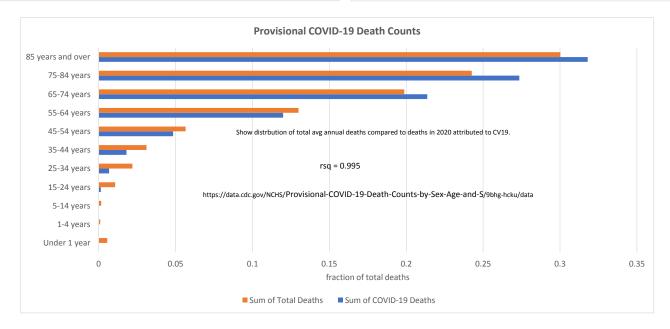
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

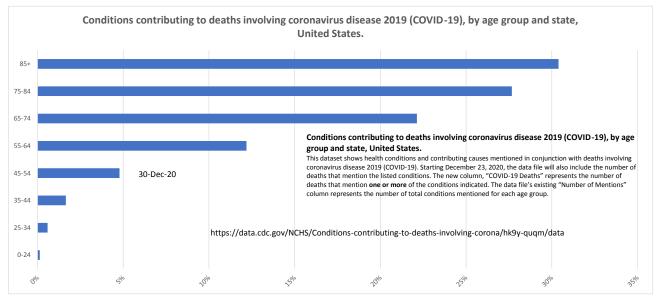
K=0.318

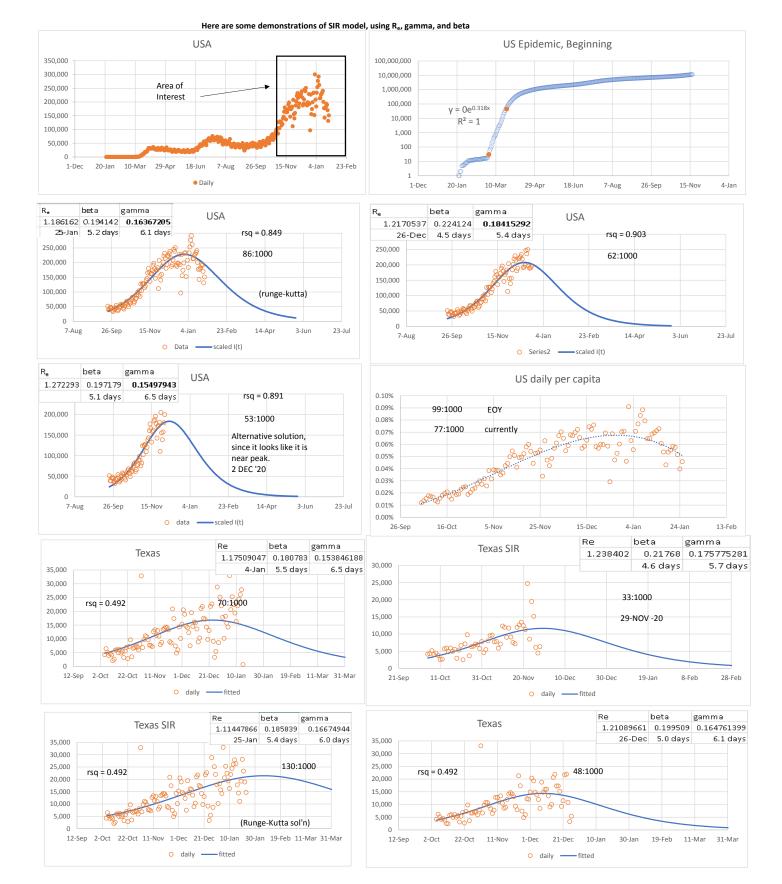
gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$ gamma = 0.286  $R > [1-1/R_0]/N = 3.04$  84% <=Herd immunity

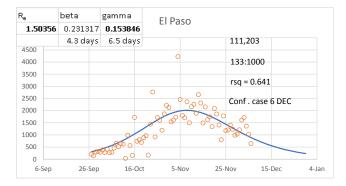
R is recovered variable

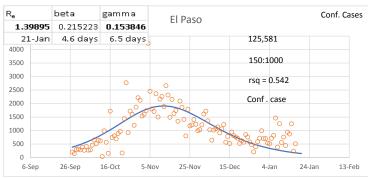


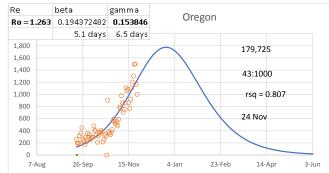


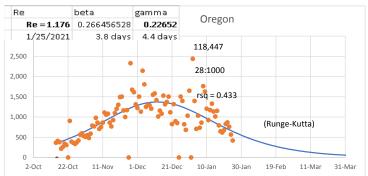


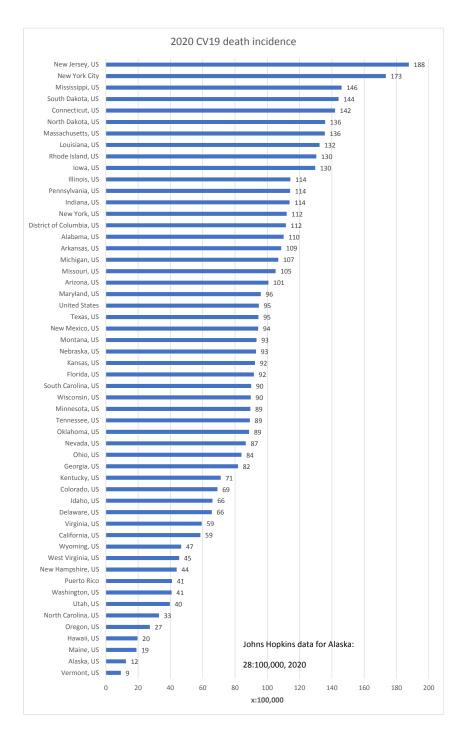












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$