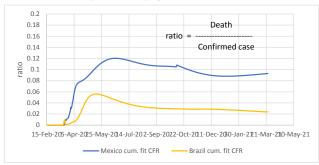
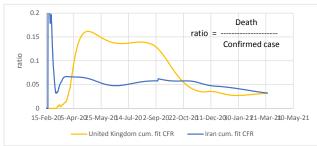
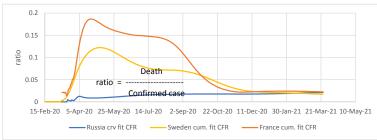
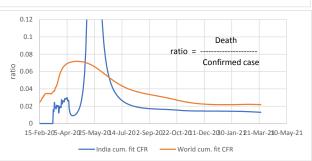
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

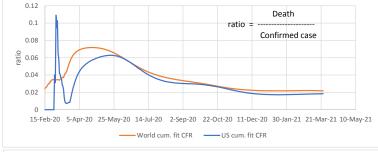




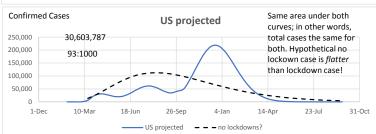


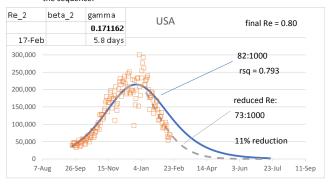


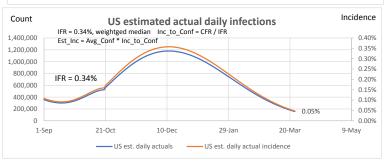




Demonstration of SIR model where R_e is linearly reduced to 0.80 at the end of the sequence:







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.

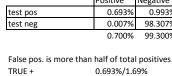
False Positives Demonstration

FALSE +

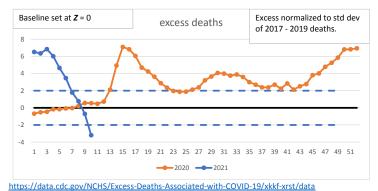
Use 0.05% from US est. incidence above as estimated daily incidence Prevalence estimated as avg. infected period of 2 weeks X incidence 99% accuracy of test 0.05% X 14 = 0.700%

3370			
	Positive	Negative	
test pos	0.693%	0.993%	1.69%
test neg	0.007%	98.307%	98.31%
	0.700%	00 200%	100 00%

0.993%/1.69%



41.1%	
58.9%	
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.

Provisional COVID-19 Death Counts 85 years and over 75-84 years 65-74 years 50-64 years 55-64 years rsq = 0.99245-54 years 35-44 years 25-34 years https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku/data 15-24 years 0% 10% 15% 20% 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	43:100,000	110:100.000

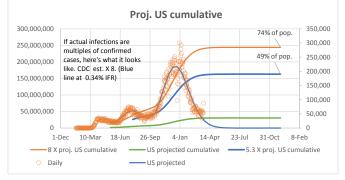
3 yr average 859:100,000

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

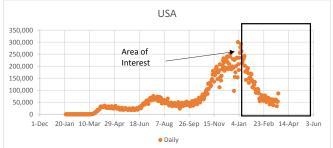
K = 0.318

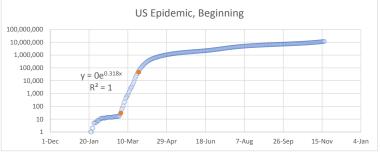
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ gamma = 0.286 $R > [1-1/R_0]/N = 3.04$ 84% <=Herd immunity

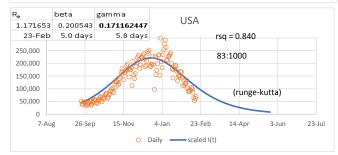
R is recovered variable.

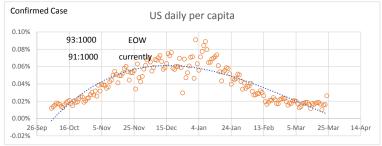


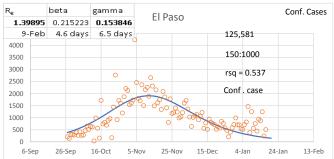
Here are some demonstrations of SIR model, using R_e, gamma, and beta

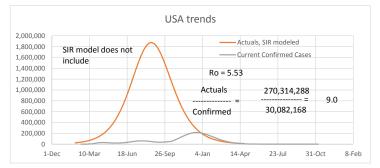


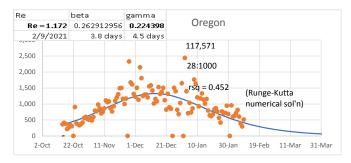


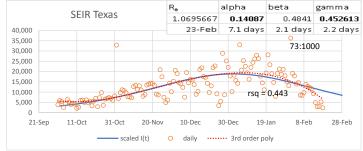


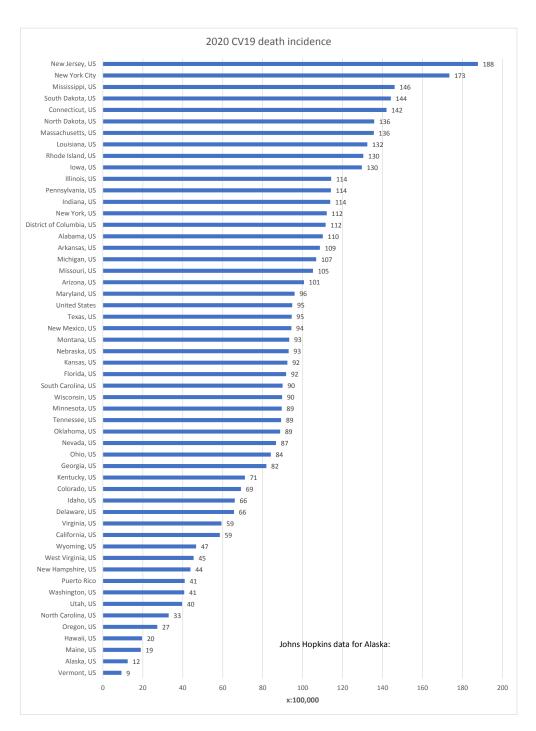












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$