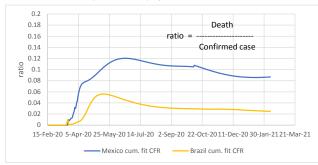
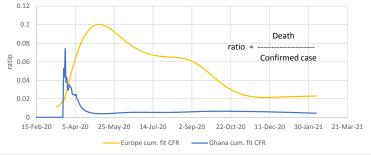
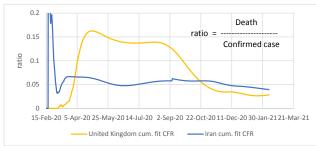
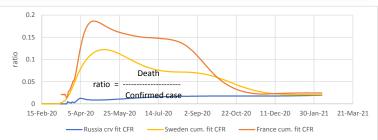
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

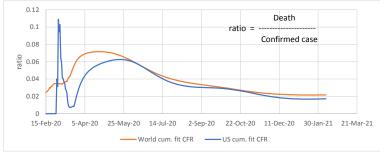


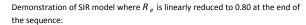


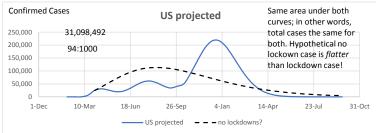


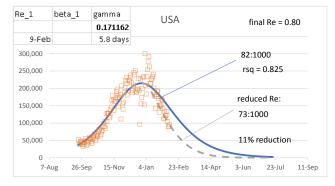


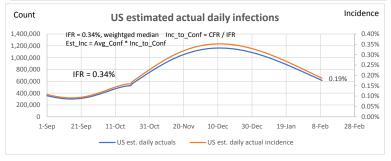












Reducing the R $_{\it e}$ while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. Seems to indicate timing of start of measures is a big factor. The orange data taken as without measures, but we know certain measures were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

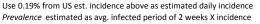
2020

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

2020 All excess

Baseline set at **Z** = 0

False Positives Demonstration



99%	99% accuracy or lest		
	Positive	Negative	
test pos	2.633%	0.973%	3.61%
test neg	0.027%	96.367%	96.39%

33/0	accuracy o	i test		0.13/6 X 14 -	2.000/
	Positive	Negative			
est pos	2.633%	0.973%	3.61%		
est neg	0.027%	96.367%	96.39%		
	2 660%	97 340%	100 00%		

	Anna de		2.660%
		False pos. is a 1	/4 of total positives.
****	-	TRUE +	2.633%/3.619
		EALSE ±	0.973%/3.619

Excess normalized to std dev

of 2017 - 2019 deaths.

2.633%/3.61% 73.0% 0.973%/3.61% 27.0% 100.00% Total

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 55-64 years 45-54 years 35-44 years rsq = 0.99525-34 years 15-24 years https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-5-14 years Show distribution of total avg annual deaths compared to deaths in 2020 attributed to CV19. 1-4 years Under 1 year 0.05 0 0.1 0.15 0.2 0.25 0.3 0.35 fraction of total deaths ■ Sum of Total Deaths ■ Sum of COVID-19 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	1004:100,000	898:100,000	-
	Diff.	148:100.000	39:100.000	109:100.000

3 yr average 859:100,000

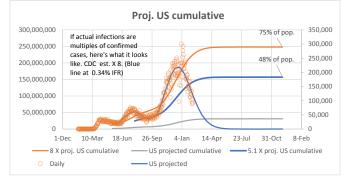
26% of All-Cause excess deaths are non-CV19

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

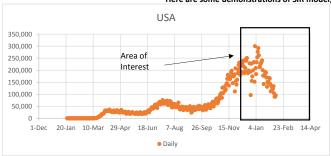
K = 0.318

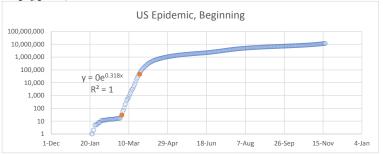
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ gamma = 0.286 $R > [1-1/R_0]/N = 3.04$ 84% <=Herd immunity

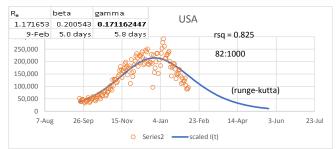
R is recovered variable.

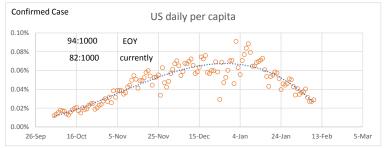


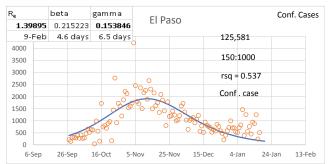
Here are some demonstrations of SIR model, using R_e, gamma, and beta

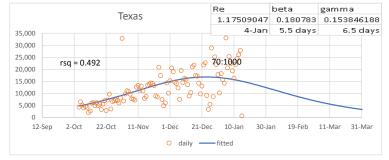


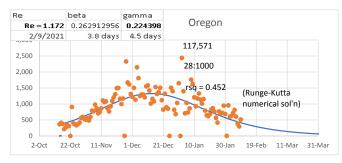


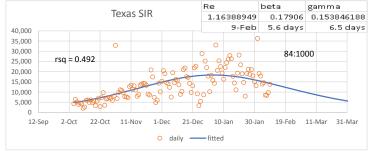


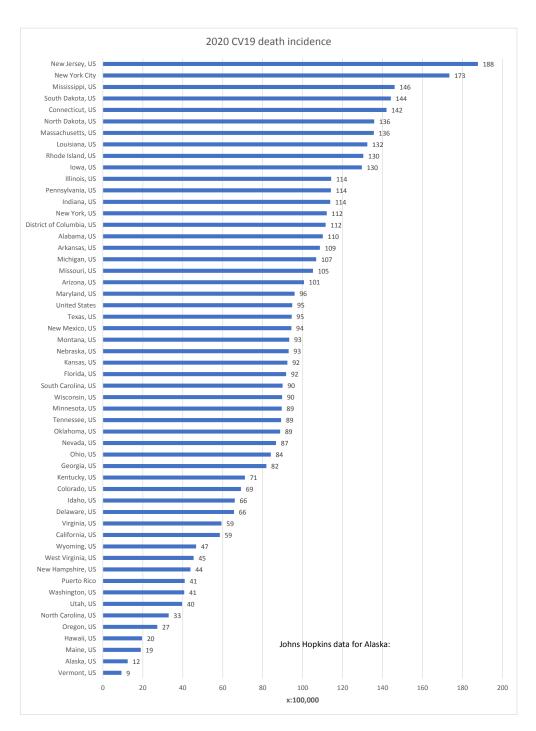












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$