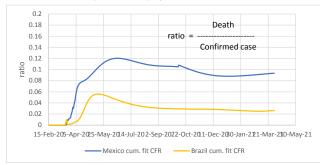
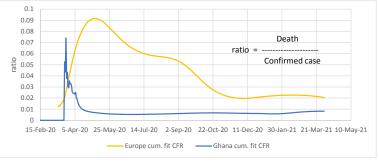
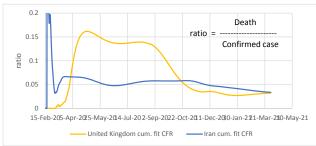
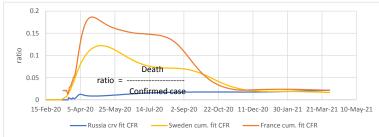
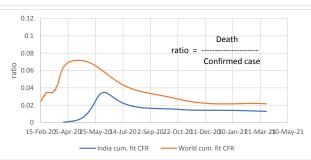
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

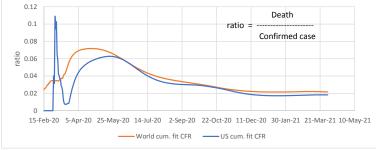




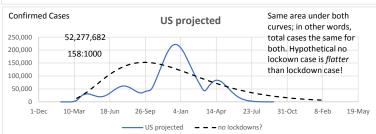


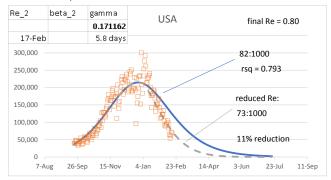


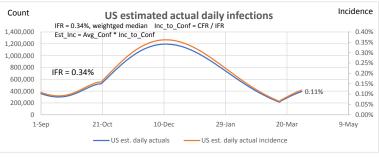




## Demonstration of SIR model where $R_e$ is linearly reduced to 0.80 at the end of the sequence:

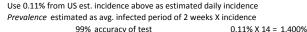






Reducing the R  $_{\it e}$  while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. Seems to indicate timing of start of measures is a big factor. The orange data taken as without measures, but we know certain measures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

# False Positives Demonstration

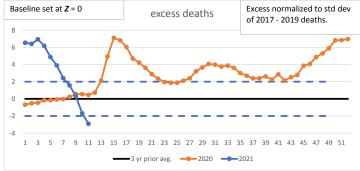


	Positive	Negative	
test pos	1.386%	0.986%	2.37%
test neg	0.014%	97.614%	97.63%
	1 4000/	00.000/	100 000/

	Positive	Negative	
test pos	1.386%	0.986%	2.37%
test neg	0.014%	97.614%	97.63%
	1.400%	98.600%	100.00%

False pos. is less than half of total positives.

TRUE +	1.386%/2.37%	58.4%
FALSE +	0.986%/2.37%	41.6%
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.

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

# Provisional COVID-19 Death Counts 85 years and over 75-84 years 65-74 years 50-64 years 55-64 years 45-54 years rsq = 0.990 35-44 years 25-34 years 15-24 years 5-14 years https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku/data 1-4 years Under 1 year 0% 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

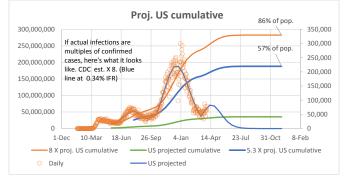
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

K = 0.318  $R_{o}$ : R:

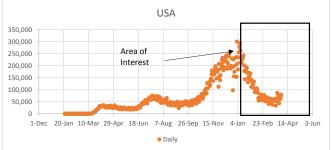
gamma = 0.171  $R_{o} = \exp(K/\text{gamma}) = 6.42$  84%

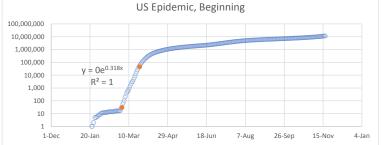
gamma = 0.286 R > 1-  $1/R_{o} = 3.04$  67%

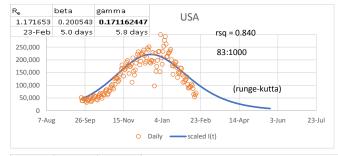
R is recovered variable.

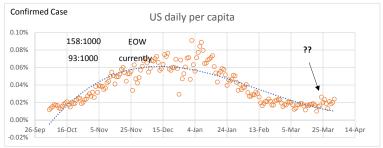


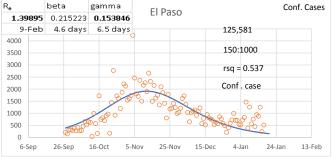
## Here are some demonstrations of SIR model, using Re, gamma, and beta

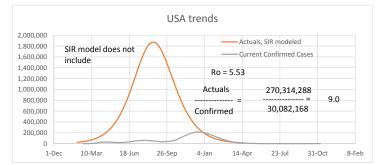


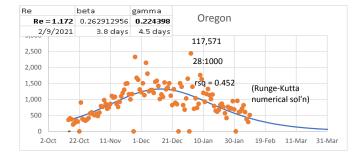


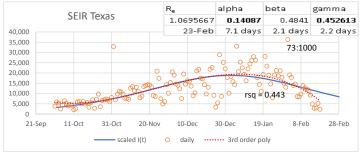


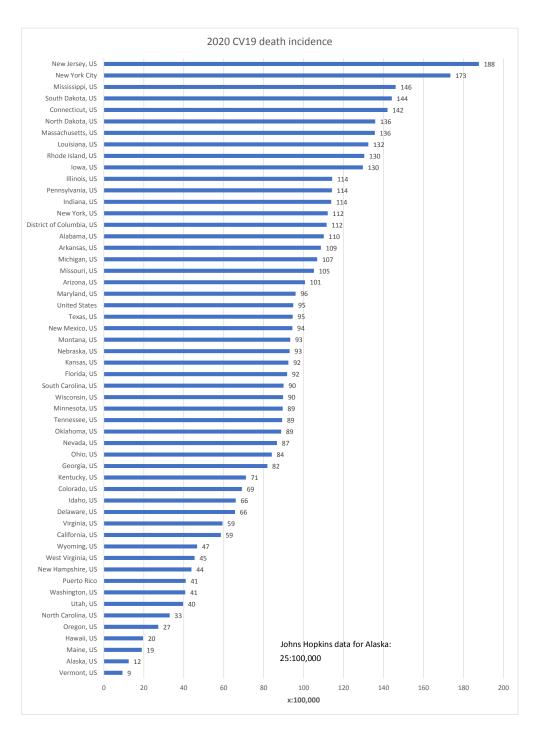












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$