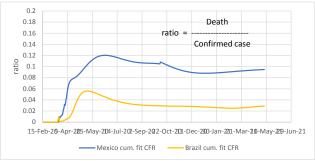
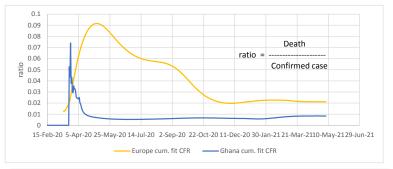
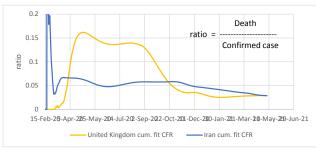
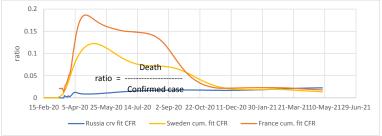
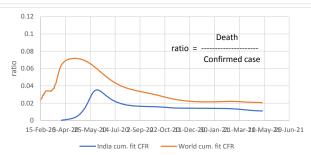
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

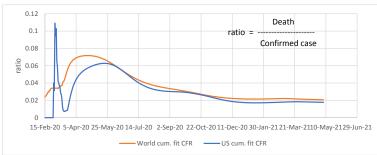




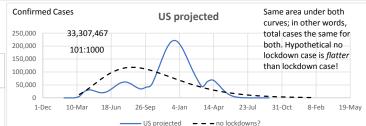




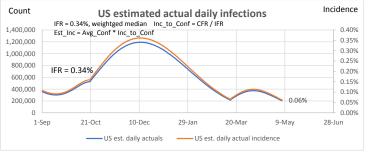




## Excess deaths as a Z score:

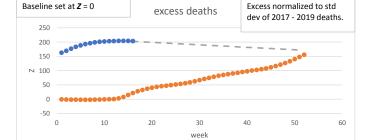






Above based on  $\,$  Z score of three year standard deviation from 2017-2019. What follows is cumulative plot of same.

## False Positives Demonstration



cumulative 2021

at current trend

Use 0.06% from US est. incidence above as estimated daily incidence

\*\*Prevalence\*\* estimated as avg. infected period of 2 weeks X incidence

99% accuracy of test

0.06% X 14 = 0.840%

 Positive
 Negative

 test pos
 0.832%
 0.992%
 1.82%

 test neg
 0.008%
 98.168%
 98.18%

 0.840%
 99.160%
 100.00%

False pos. is more than half of total positives.

TRUE + 0.832%/1.82% 45.6% FALSE + 0.992%/1.82% 54.4% 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.

cumulative 2020

# 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	1016:100,000	905:100,000	-
Diff.	157:100,000	46:100,000	111:100.000

3 yr average 859:100,000

29% of All-Cause excess deaths are non-CV19

= 3.04

67%

<=Herd immunity

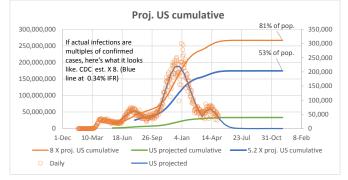
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

K = 0.318  $R_o$ : R: gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$  84%

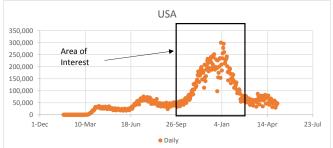
 $R > 1-1/R_{\rm o}$ 

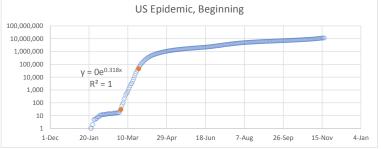
R is recovered variable.

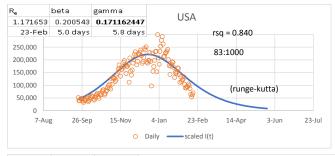
gamma = 0.286

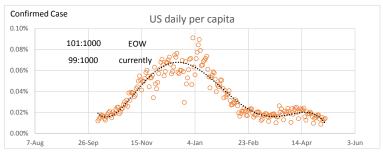


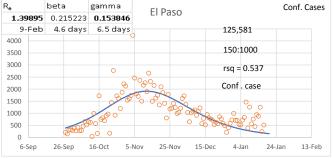
### Here are some demonstrations of SIR model, using R<sub>e</sub>, gamma, and beta

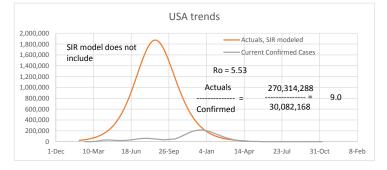


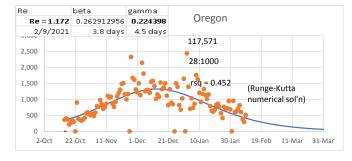


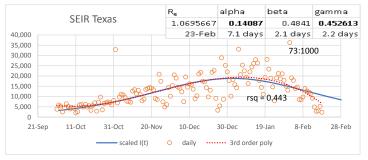


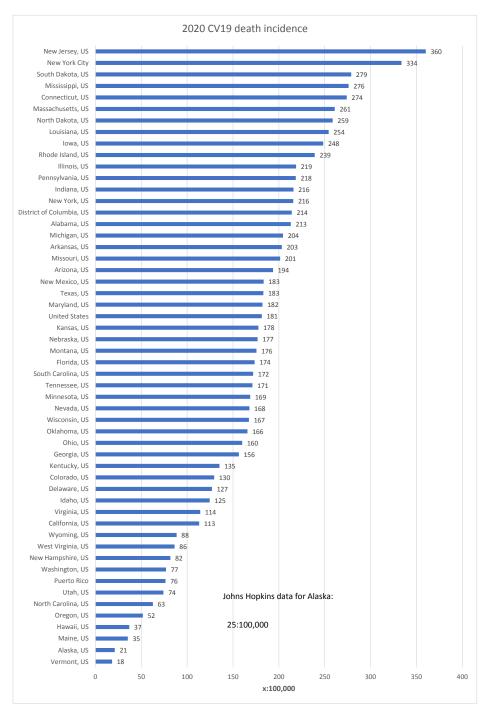












 $\underline{https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data}$