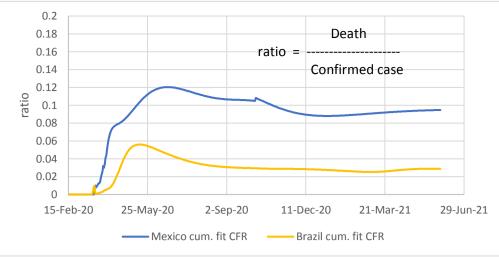
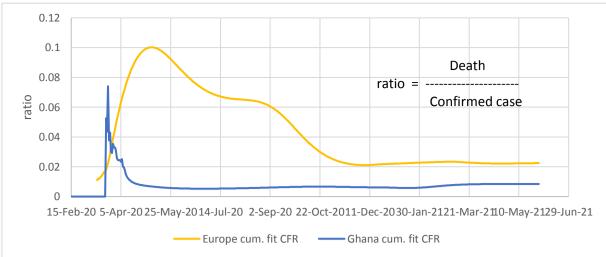
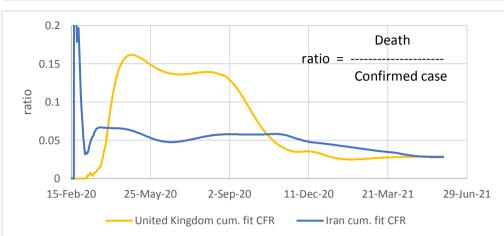
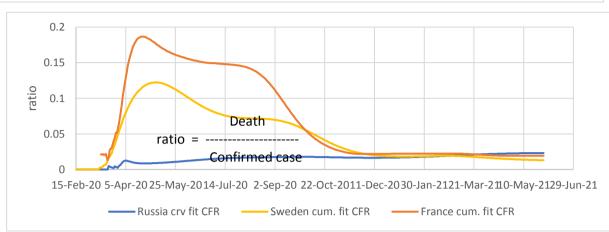
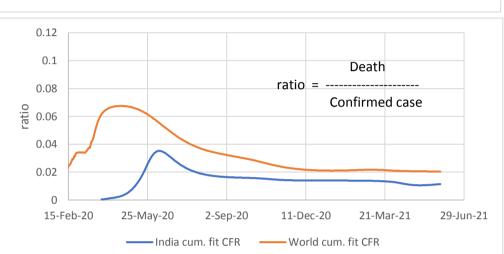
### Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

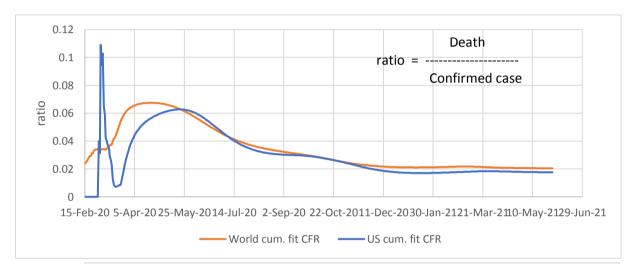






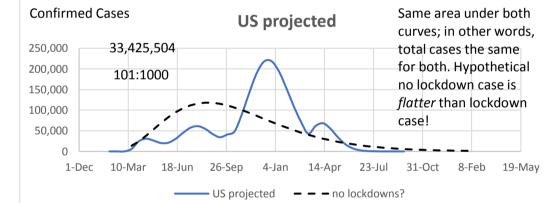


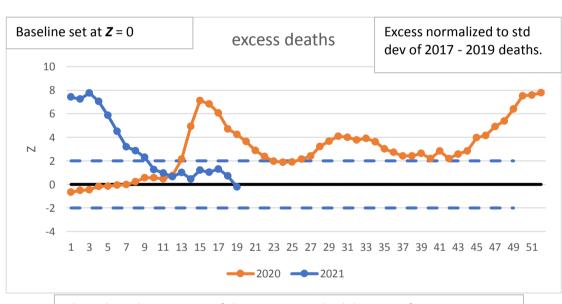


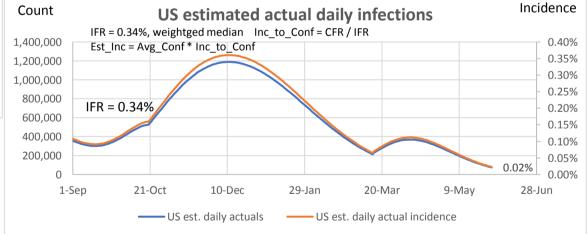


## Excess deaths as a Z score:

Baseline set at Z = 0







 $0.04\% \times 14 = 0.560\%$ 

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

### False Positives Demonstration

Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely

Excess normalized to std

Use 0.04% as estimated daily incidence

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

excess deaths

excess deaths

excess deaths

excess deaths

cxcess normalized to stude of 2017 - 2019 deaths.

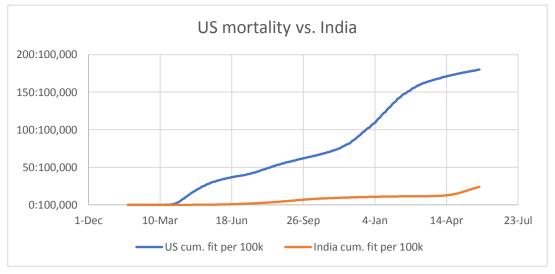
cumulative 2020cumulative 2021

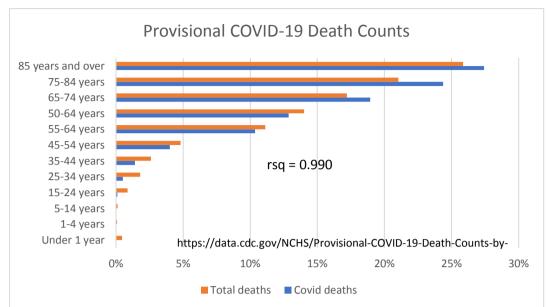
	Positive	Negative	
test pos	0.554%	0.994%	1.55%
test neg	0.006%	98.446%	<u>98.45%</u>
	0.560%	99.440%	100.00%

99% accuracy of test

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





#### **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	1017:100,000	905:100,000	-
	Diff.	157:100,000	46:100,000	111:100,000

3 yr average 859:100.000

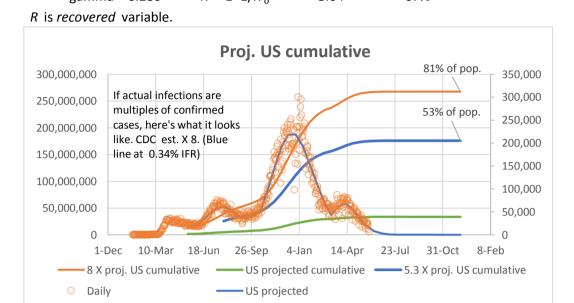
29% of All-Cause excess deaths are non-CV19

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

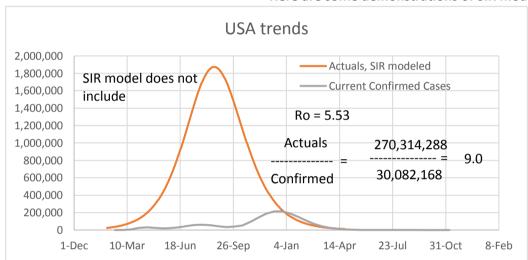
K = 0.318  $R_o$ : R:

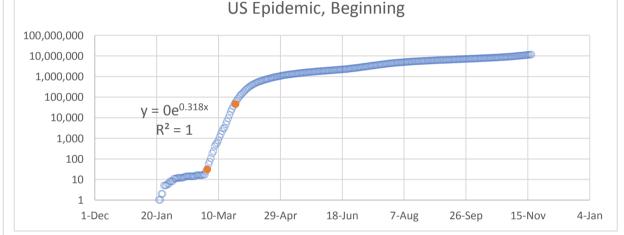
gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$  84%

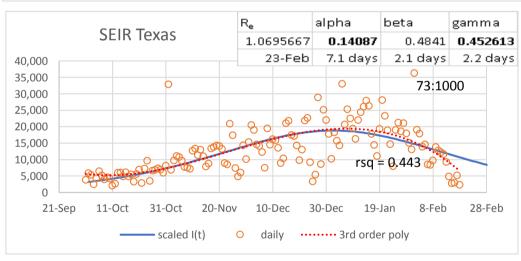
gamma = 0.286  $R > 1 - 1/R_o = 3.04$  67%

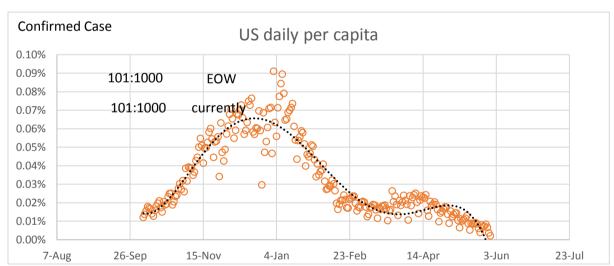


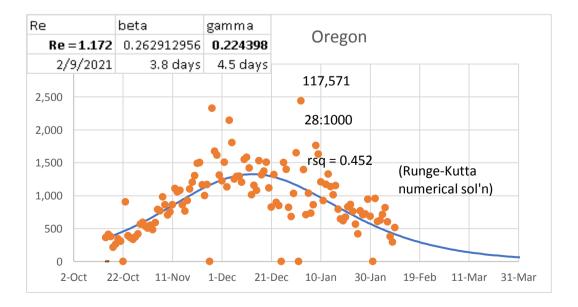
# Here are some demonstrations of SIR model, using R<sub>e</sub>, gamma, and beta

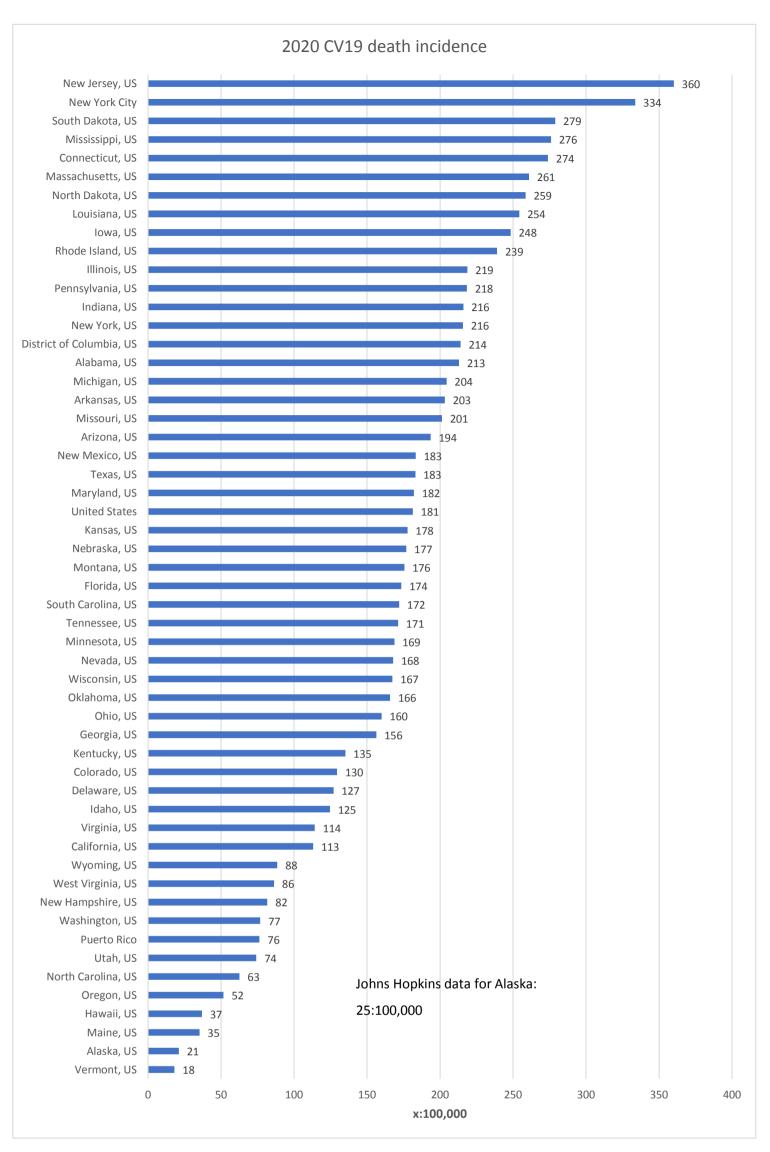












https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data