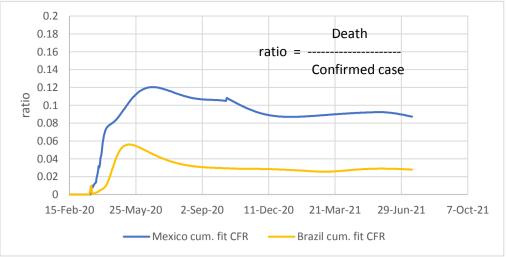
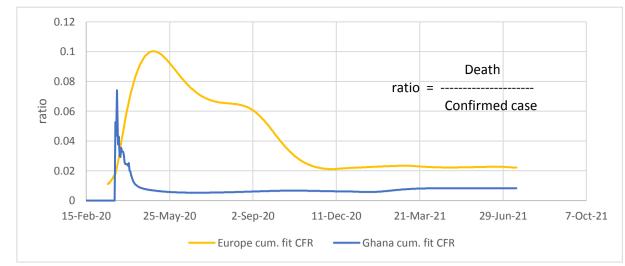
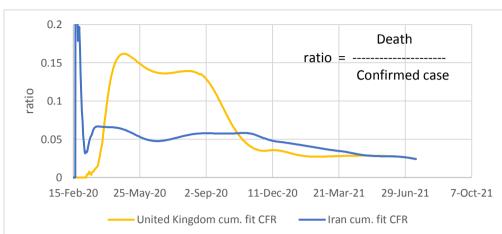
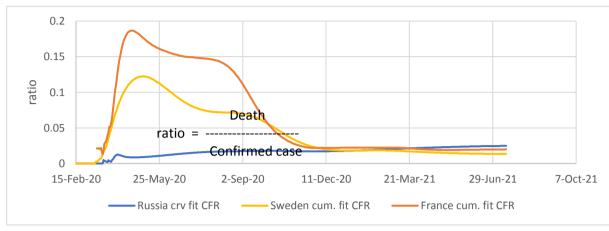
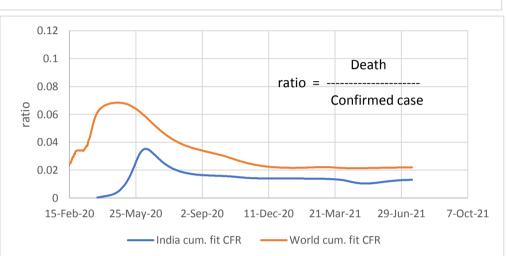
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

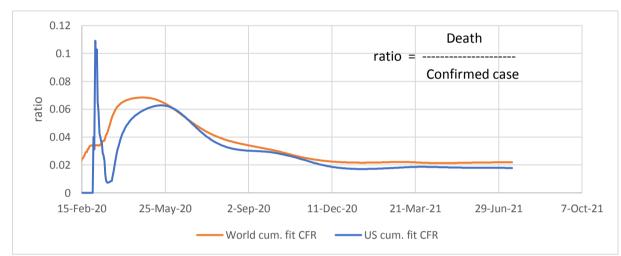




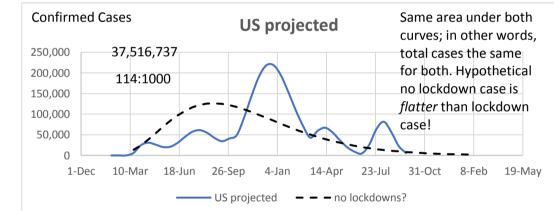


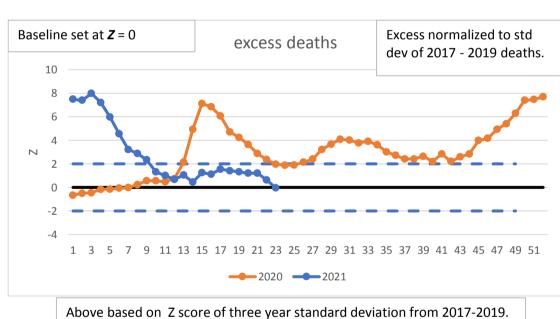


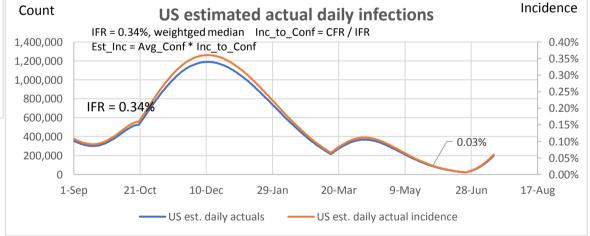




Excess deaths as a Z score:





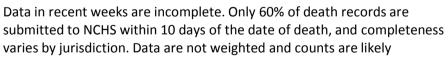


 $0.04\% \times 14 = 0.560\%$

What follows is cumulative plot of same.

Data in recent weeks are incomplete. Only 60% of death records are

False Positives Demonstration



Use 0.04% as estimated daily incidence

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

Excess normalized to std Baseline set at Z = 0excess deaths dev of 2017 - 2019 deaths. 250 200 150 N 100 50 -50 40 50 10 20 30 60 week 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%

False pos. is more than half of total positives.

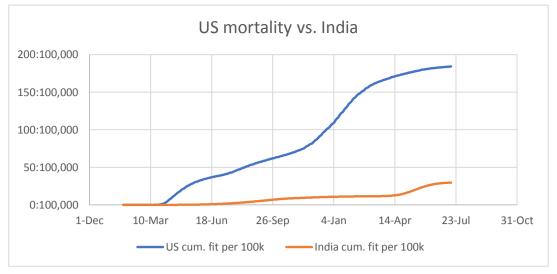
TRUE + 0.554%/1.55%

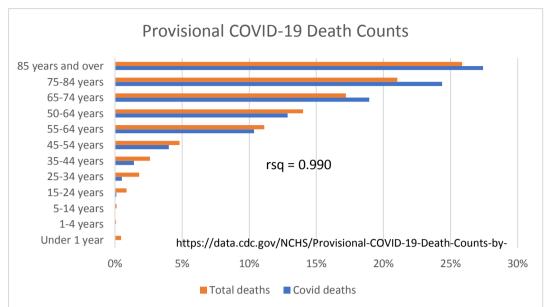
TRUE + 0.554%/1.55% 35.8% FALSE + 0.994%/1.55% <u>64.2%</u> Total 100.00%

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

3 yr average 859:100.000

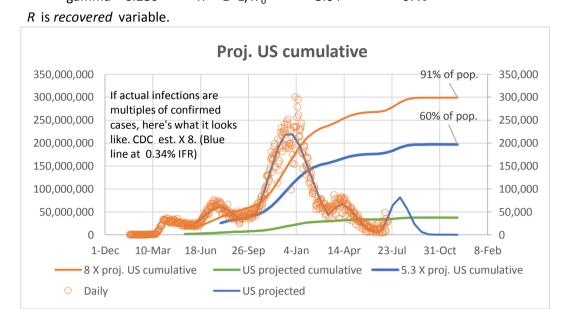
29% of All-Cause excess deaths are non-CV19

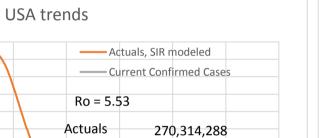
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

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 Re, gamma, and beta

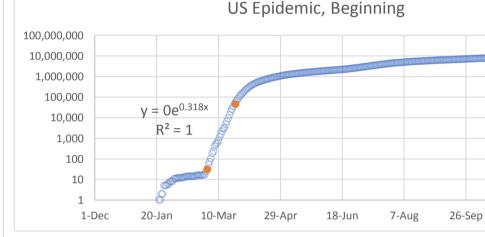
---- = 9.0

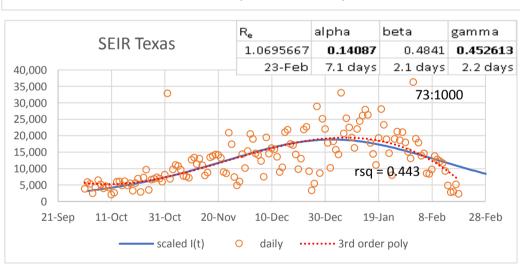
31-Oct

8-Feb

30,082,168

23-Jul





Confirmed

4-Jan

14-Apr

2,000,000

1,800,000

1,600,000

1,400,000

1,200,000

1,000,000

800,000

600,000

400,000

200,000

1-Dec

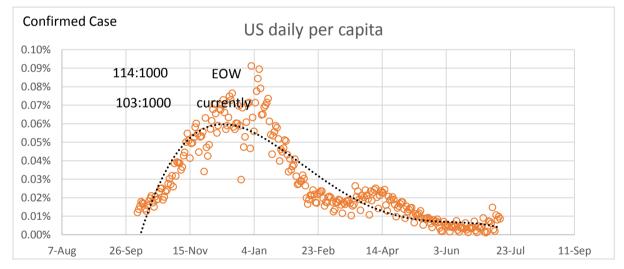
SIR model does not

10-Mar

18-Jun

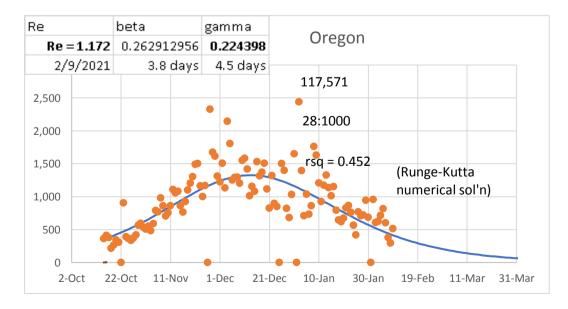
26-Sep

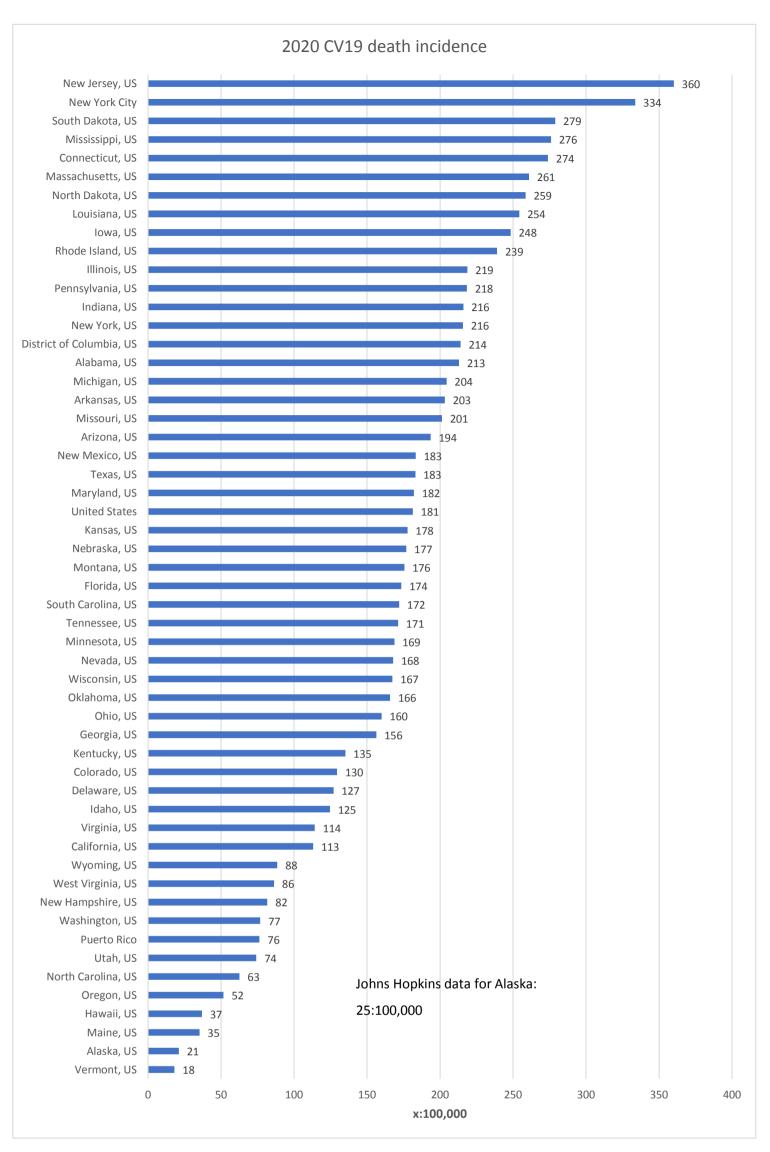
include



15-Nov

4-Jan





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