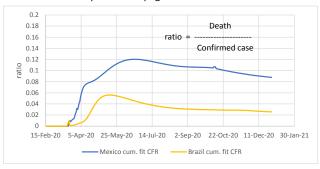
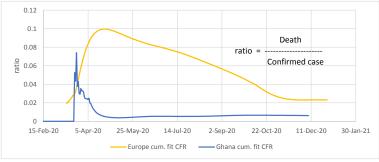
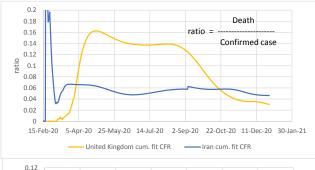
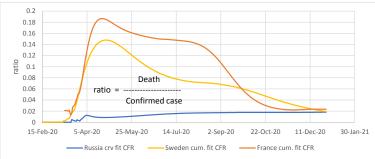
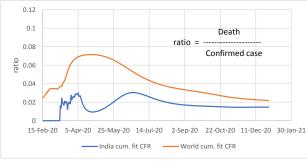
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

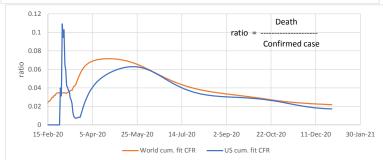


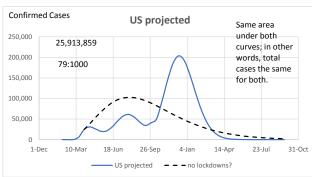


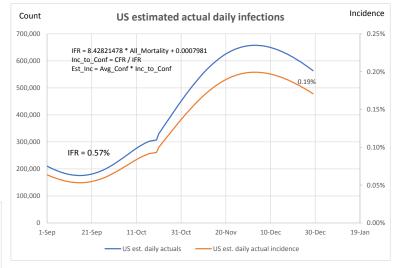




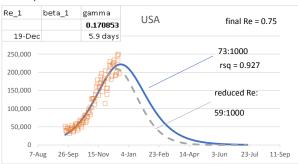








Demonstration of SIR model where $R_{\,e}$ is linearly reduced to 0.75 at the end of the sequence:



False Positives Demonstration

Use 0.19% from US est. incidence above as estimated daily incidence $\it Prevalence$ estimated as avg. infected period of 2 weeks X incidence

0.19% X 14 = 2.660%

 99% accuracy of test

 Positive
 Negative

 test pos
 2.633%
 0.973%
 3.61%

 test neg
 0.027%
 96.367%
 96.39%

 2.660%
 97.340%
 100.00%

alco noc	is a hit over 1/4 of total positives!

TRUE + 2.633%/3.61% 73.0% FALSE + 0.973%/3.61% <u>27.0%</u> Total ------- 100.00%

Reducing the R_e while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. This case about 14:1000 benefit (19%).

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.

2020 Excess deaths over previous 3 yrs, weighted average deaths 30,000 20,000 10.000 Weekly -10.000 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 ■ attrib. to CV19 Week

USA Excess Deaths (from CDC data):

Annualized on 50 weeks

	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	857:100,000	857:100,000	-
2020	988:100,000	893:100,000	-
Diff.	131:100,000	37:100,000	94:100,000
Diff.	+15.3%	+4.3%	+11.0%

3 yr average weighted

859:100,000

28% of All-Cause excess deaths are non-CV19

gamma = 0.171 K = 0.318 gamma=0.286 $R_o = \exp(K/\text{gamma}) = 6.421$

 $R > [1 - 1/R_0]/N$

221,571,317 <=Herd immunity R> 278,610,004

