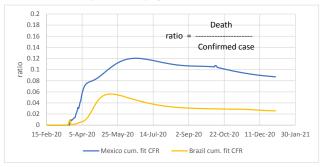
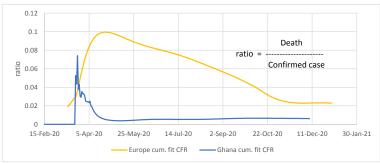
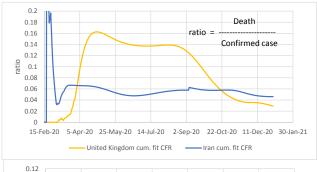
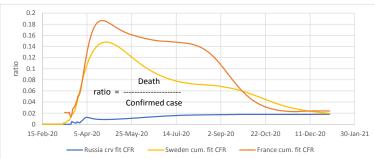
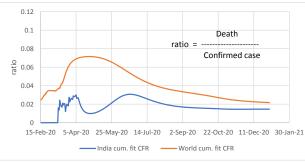
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

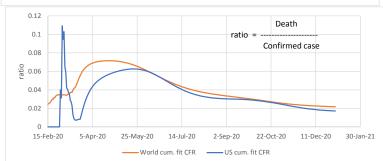


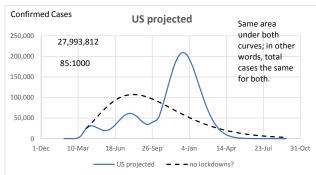


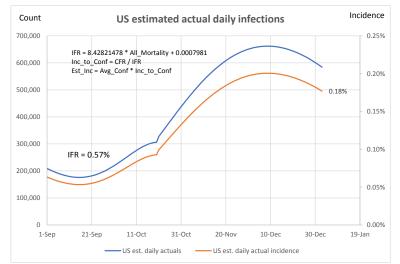






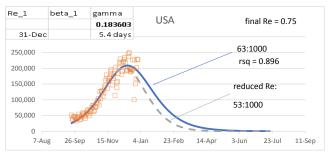






Demonstration of SIR model where $R_{\,e}$ is linearly reduced to 0.75 at the end of the sequence:

False Positives Demonstration



Use 0.17% from US est. incidence above as estimated daily incidence

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

99% accuracy of test

0.17% X 14 = 2.380%

 Positive
 Negative

 test pos
 2.356%
 0.976%
 3.33%

 test neg
 0.024%
 96.644%
 96.67%

 2.380%
 97.620%
 100.00%

False pos. is a bit o	ver 1/4 of total positives!
TRUE +	2.356%/3.33%

TRUE + 2.356%/3.33% 70.7% FALSE + 0.976%/3.33% 29.3% 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 10:1000 benefit (16%).

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 51 ■ attrib. to CV19 Week

USA Excess Deaths (from CDC data):

Annualized on 51 weeks

	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	858:100,000	858:100,000	-
2020	988:100,000	892:100,000	-
Diff.	130:100,000	34:100,000	96:100,000
Diff.	+15.2%	+4.0%	+11.2%

3 yr average weighted 859:100,000

26% of All-Cause excess deaths are non-CV19

278,610,004

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

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

R>

221,571,317 <=Herd immunity

