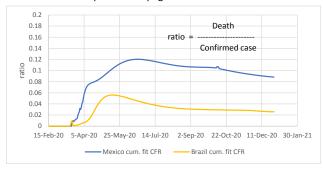
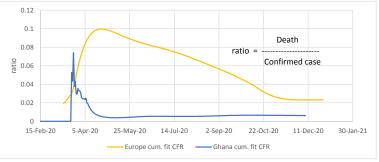
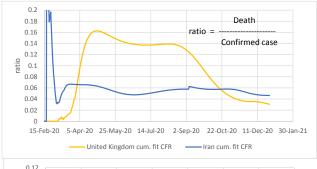
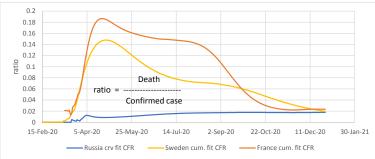
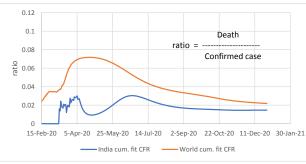
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

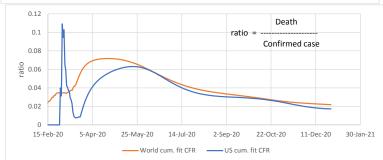


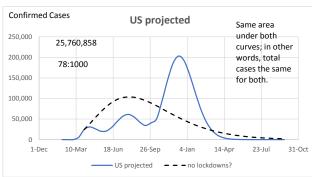


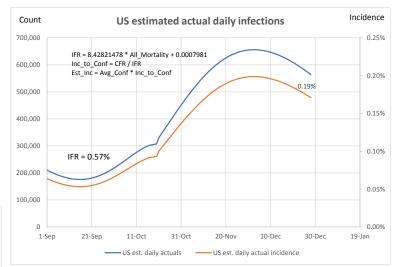












Demonstration of SIR model where R_{e} is linearly reduced to 0.75 at the end of the sequence:

Re_1 gamma USA final Re = 0.75 0.170853 19-Dec 5.9 days 73:1000 250,000 rsq = 0.927 200.000 150,000 reduced Re: 100,000 59:1000 50,000 14-Apr 15-Nov 4-Jan 23-Feb

False Positives Demonstration

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

0.19% X 14 = 2.660%

Positive Negative 3 61% test pos 0.973% 2.633% 96.39% 00.00%

99% accuracy of test

test neg	0.027%	96.367%	9
	2.660%	97.340%	10

False pos. is a bit over 1/4 of total positives! TRUE + 2.633%/3.61%

73.0% FALSE + 0.973%/3.61% 27.0% 100.00%

Reducing the R $_{\it e}$ 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 Weekly cases 10.000 -10.000 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

R>

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

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

gamma=0.286 221,571,317 <=Herd immunity

278,610,004



