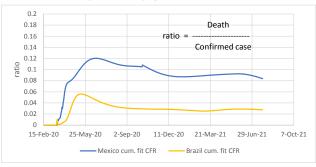
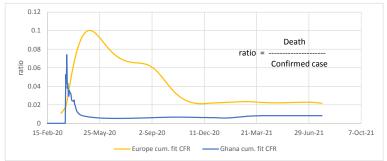
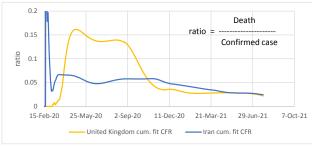
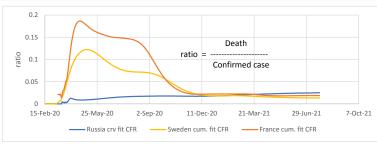
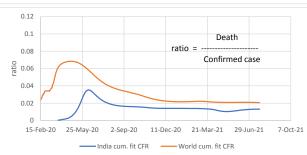
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

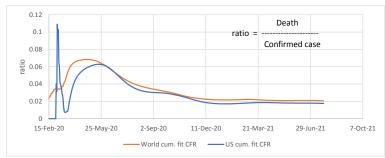




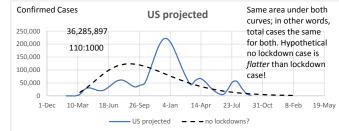


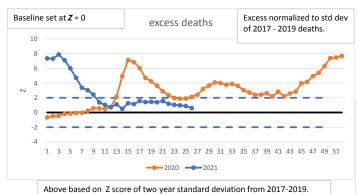


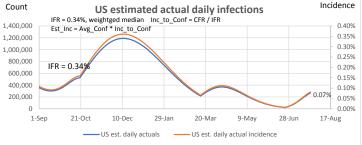




Excess deaths as a Z score:







What follows is cumulative plot of same.

False Positives Demonstration

Use 0.07% as estimated daily incidence

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

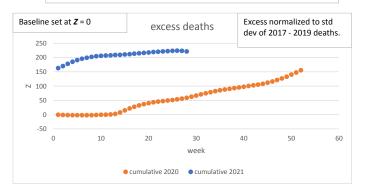
Prevalence estimated as avg. infected period of 2 weeks X incidence
99% accuracy of test 0.07% X 14 = 0.980%

 Positive
 Negative

 test pos
 0.970%
 0.990%
 1.96%

 test neg
 0.010%
 98.030%
 98.04%

 0.980%
 99.020%
 100.00%



False pos. is more than half of total positives.

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.

US mortality vs. India 200:100,000 180:100,000 160:100,000 140:100.000 120:100,000 100:100,000 80:100,000 60:100 000 40:100,000 20:100,000 0:100,000 1-Dec 10-Mar 4-Jan 14-Apr 23-Jul 31-Oct US cum. fit per 100k -India cum. fit per 100k

USA Excess Deaths, 2020 (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

USA Excess Deaths to date (from CDC data):

	28 weeks	All Cause	All Cause, excl. CV19	
3	yr average before 2020	455:10	00,000	455:100,000
	2021	539:10	00,000	467:100,000
	Diff.	84:10	0,000	12:100,000

CV19 72:100,000

350,000

300,000

250.000

200.000

150,000

100.000

50,000

0

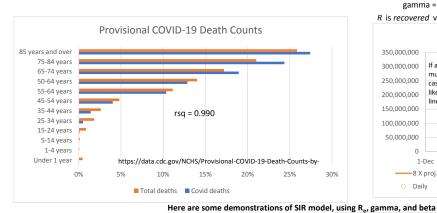
3 yr average 859:100,000

R is recovered variable.

14% of All-Cause excess deaths are non-CV19

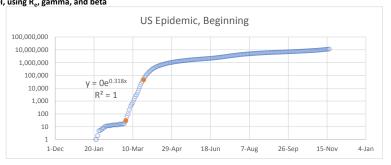
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

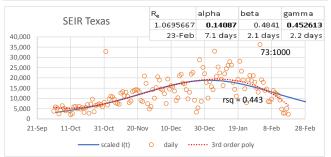
K = 0.318R: R_o : gamma = 0.171 $R_o = \exp(K/\text{gamma})$ = 6.42 84% <=Herd immunity gamma = 0.286 $R > 1-1/R_{\rm o}$ 67%

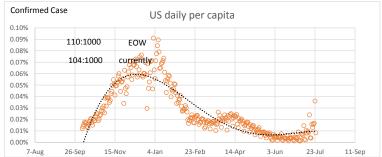


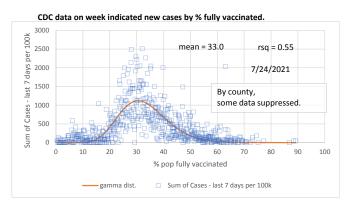
Proj. US cumulative 350,000,000 88% of pop. If actual infections are 300,000,000 multiples of confirmed cases, here's what it looks 57% of pop. 250.000.000 like. CDC est. X 8. (Blue line at 0.34% IFR) 200.000.000 150,000,000 100.000.000 50.000.000 1-Dec 10-Mar 18-Jun 26-Sep 4-Jan 14-Apr 23-Jul 31-Oct 8-Feb -8 X proj. US cumulative US projected cumulative ■5.2 X proj. US cumulative Daily US projected

USA trends 2.000.000 - Actuals, SIR modeled 1,800,000 SIR model does not — Current Confirmed Cases 1,600,000 1,400,000 Ro = 5.531,200,000 1,000,000 Actuals 270.314.288 9.0 800,000 30,082,168 Confirmed 600,000 400.000 200,000 0 1-Dec 10-Mar 18-Jun 26-Sep 4-Jan 14-Apr 23-Jul 31-Oct 8-Feb



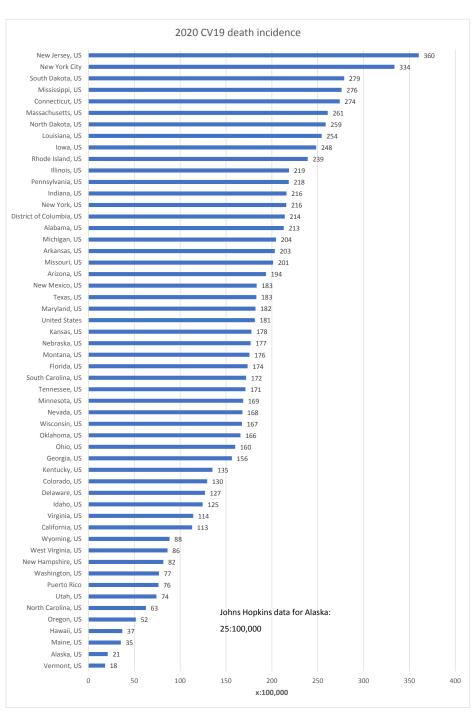








https://covid.cdc.gov/covid-data-tracker/#vaccination-case-rate



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