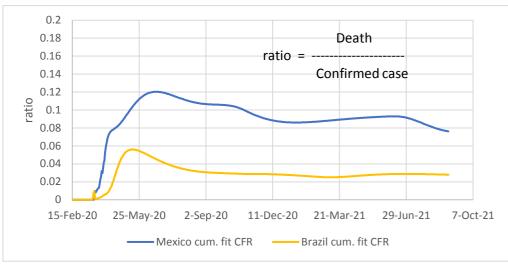
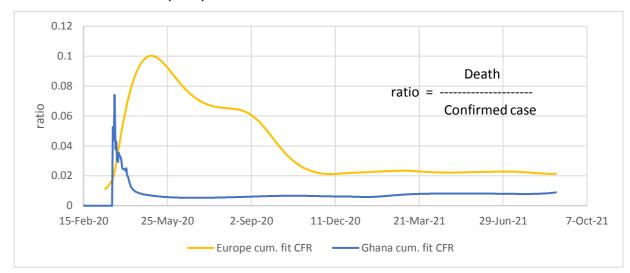
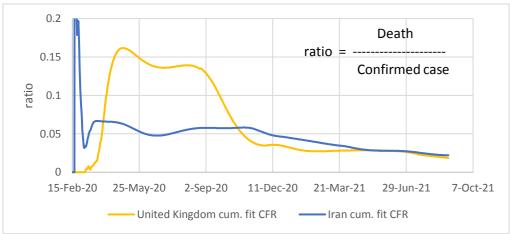
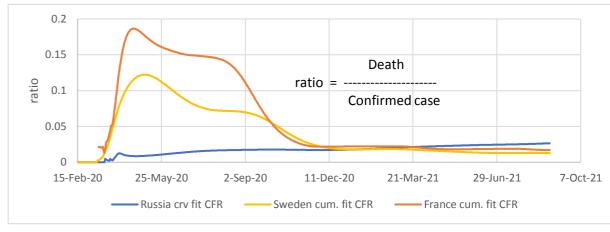
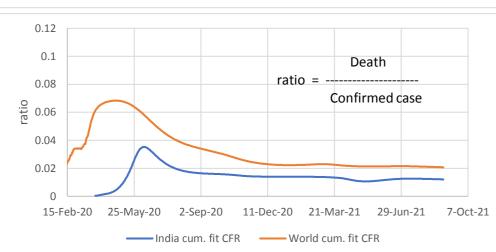
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

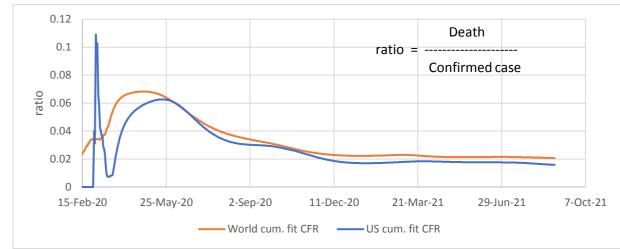




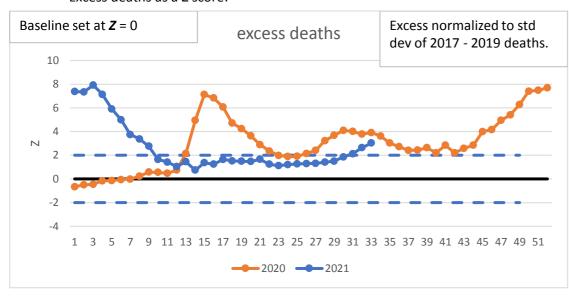


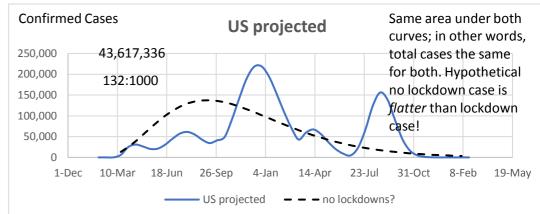




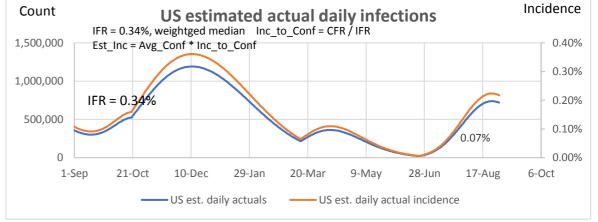


Excess deaths as a Z score:



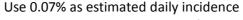


Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.



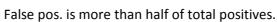
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely

False Positives Demonstration



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

		99%	accuracy o	rtest	
			Positive	Negative	
	test pos		0.970%	0.990%	1.96%
0000	test neg		0.010%	98.030%	<u>98.04%</u>
<u> </u>			0.980%	99.020%	100.00%



Total		100.00%
FALSE +	0.99%/1.96%	<u>50.5%</u>
TRUE +	0.97%/1.96%	49.5%

60

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 250:100,000 200:100,000 150:100,000 100:100,000 50:100,000 0:100,000 31-Oct 1-Dec 10-Mar 18-Jun 26-Sep 4-Jan 14-Apr 23-Jul US cum. fit per 100k India cum. fit per 100k

Provisional COVID-19 Death Counts 85 years and over 75-84 years 65-74 years 50-64 years 45-54 years 45-54 years 35-44 years 25-34 years 15-24 years 1-4 years Under 1 year Provisional COVID-19 Death Counts rsq = 0.990 https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-

10%

■ Total deaths ■ Covid deaths

15%

20%

25%

30%

0%

5%

CDC county data on week indicated new cases, by % fully vaccinated. Date generated: Sat Sep 04 2021 15:38:31 GMT-0500 (Central Daylight Time) some data 20,000 100% suppressed rsq = 0.95% 54, 80% 80% 28 px 15,000 cs px 10,000 ss px 5,000 9/3/2021 percentile 60% 43.2, 50% derived from 40% CDC per capita 20% 0% 10 20 50 80 90 100 % total pop fully vaccinated Cases by locale gammadist, norm ——Sum of Cases by locale, norm.

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):

	34 weeks	All Cause	All Cause, excl. CV19	CV19
3	yr average before 2020	556:100,000	556:100,000	-
	2021	654:100,000	572:100,000	-
	Diff.	98:100,000	16:100,000	82:100,000

3 yr average 859:100,000

16% of All-Cause excess deaths are non-CV19

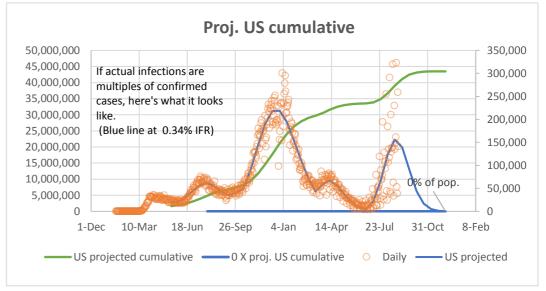
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

K = 0.318 R_o : R:

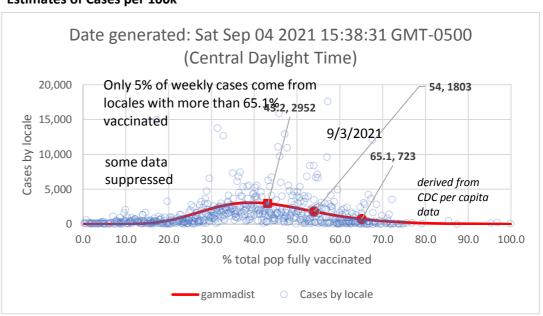
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ 84%

gamma = 0.286 $R > 1 - 1/R_o = 3.04$ 67%

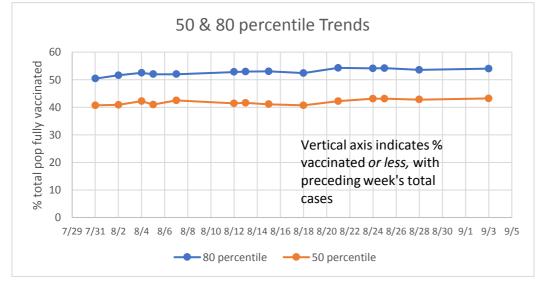
R is recovered variable.



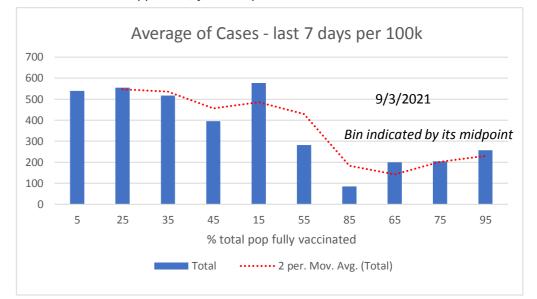
Estimates of Cases per 100k



reporting jurisdictions is not a uniform distribution; some data suppressed, for example Texas









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