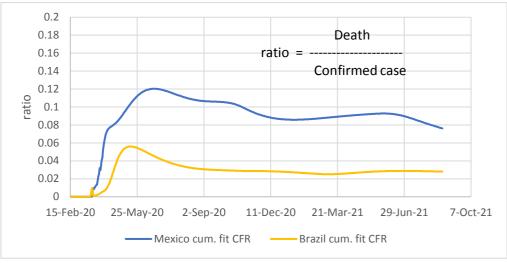
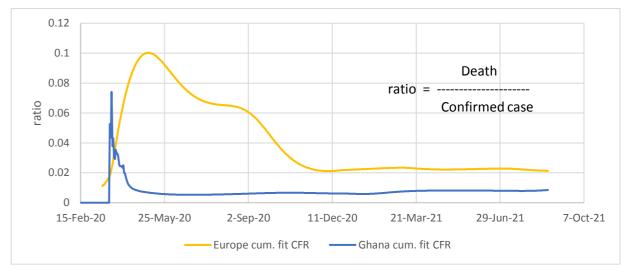
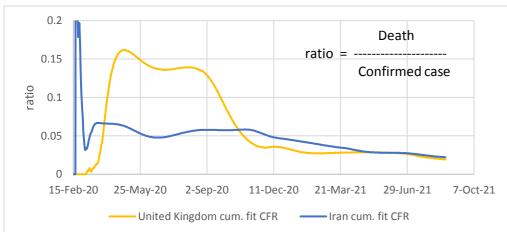
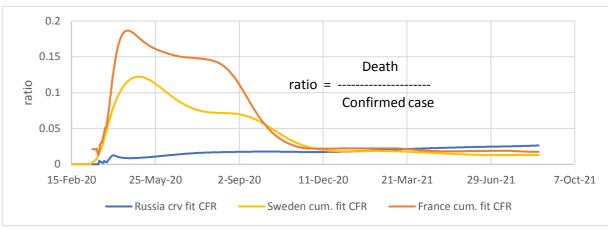
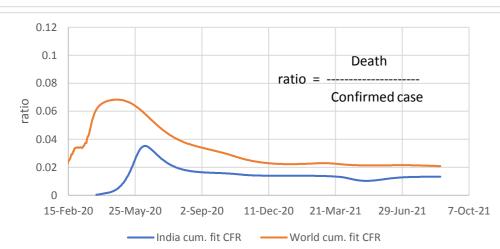
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

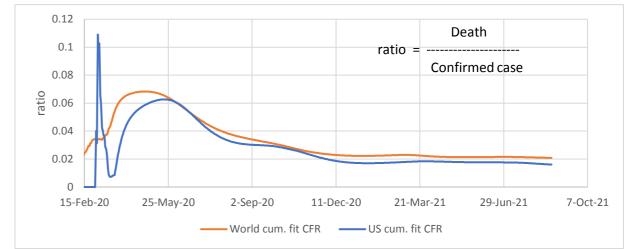




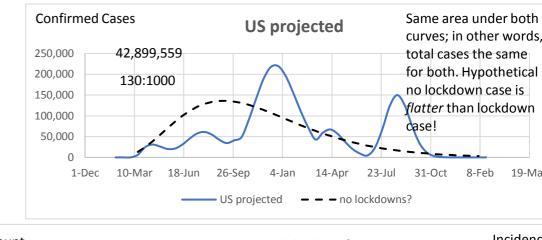


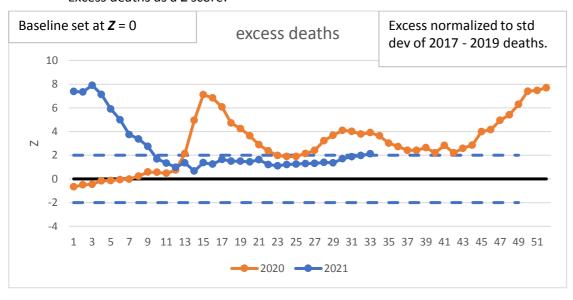


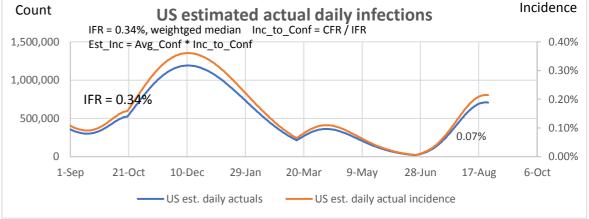




Excess deaths as a Z score:





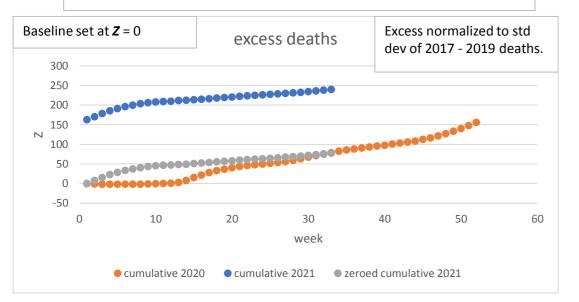


Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

False Positives Demonstration

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

Use 0.07% as estimated daily incidence 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%	<u>98.04%</u>	
	0.980%	99.020%	100.00%	

False pos. is more than half of total positives.

Total		100.0070
Total		100.00%
FALSE +	0.99%/1.96%	<u>50.5%</u>
TRUE +	0.97%/1.96%	49.5%

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 10-Mar 18-Jun 31-Oct 1-Dec 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 55-64 years 45-54 years 35-44 years 25-34 years 15-24 years 5-14 years 1-4 years 1-4 years

https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-

20%

25%

30%

15%

CDC county data on week indicated new cases, by % fully vaccinated.

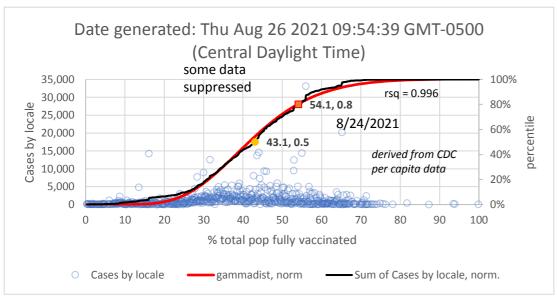
■ Total deaths ■ Covid deaths

10%

Under 1 year

0%

5%



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):

	33 weeks	All Cause	All Cause, excl. CV19	CV19
3	yr average before 2020	539:100,000	539:100,000	-
	2021	633:100,000	554:100,000	-
	Diff.	94:100,000	15:100,000	79:100,000

3 yr average 859:100,000

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

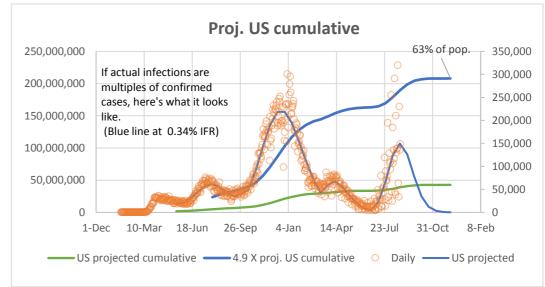
 $\underline{https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data}$

K = 0.318 R_o : R:

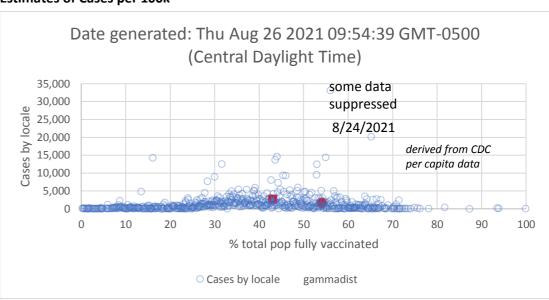
gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ 84%

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

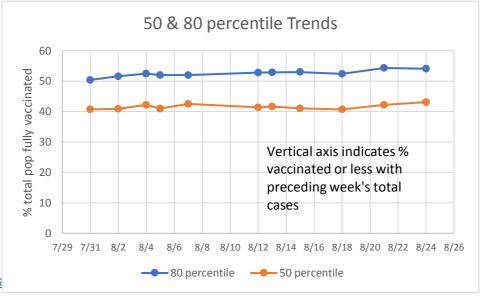
R is recovered variable.



Estimates of Cases per 100k



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



https://covid.cdc.gov/covid-data-tracker/#va



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