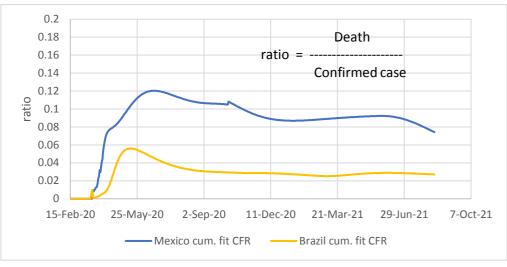
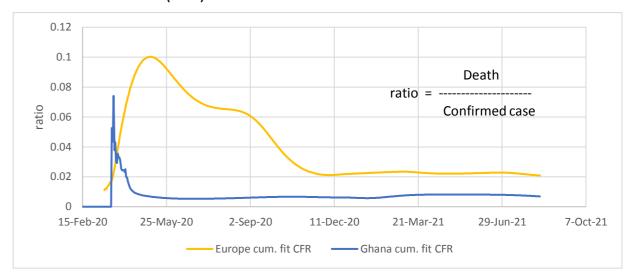
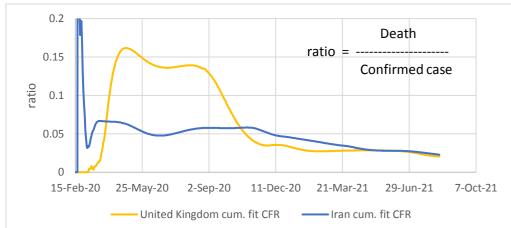
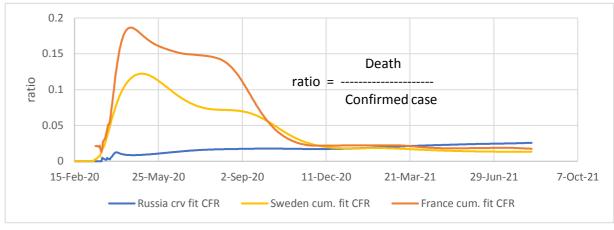
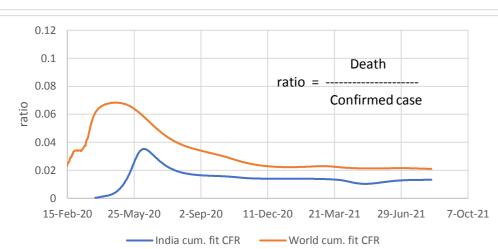
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

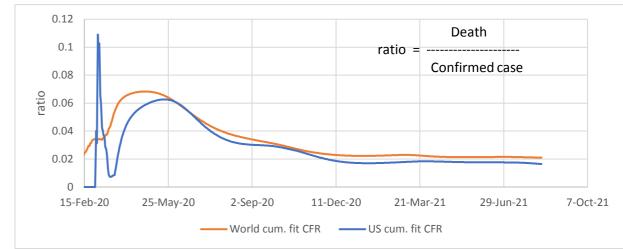






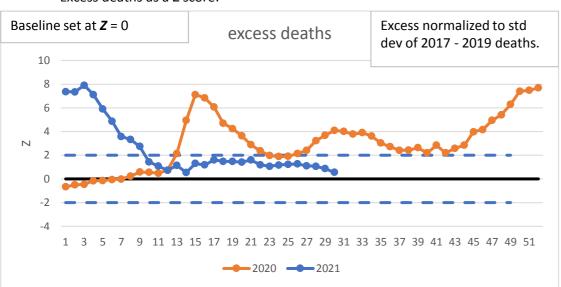


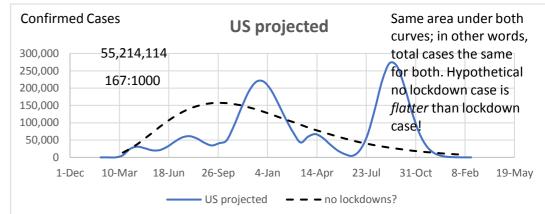




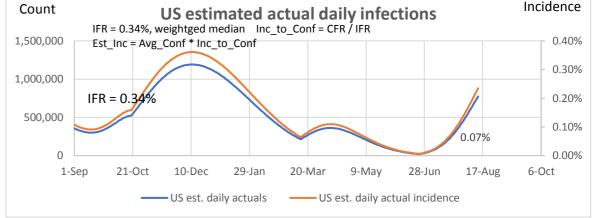
Excess deaths as a Z score:

Baseline set at **Z** = 0





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

Excess normalized to std

False Positives Demonstration

Use 0.07% as estimated daily incidence

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

Baseline set at Z = 0	excess deaths		normalized t 2017 - 2019	
250		uev oi	2017 - 2013	ucatiis.
250	00000000000000			
150			0000	
N 100	•••••••••	0000000	0000	
50	-00000000000000000000000000000000000000			
0				
-50				
0 10	20 30	40	50	60
	week			

cumulative 2020cumulative 2021

99%	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.

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 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 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

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

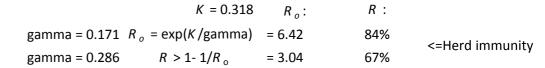
USA Excess Deaths to date (from CDC data):

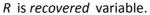
	31 weeks	All Cause	All Cause, excl. CV19	CV19
3	yr average before 2020	505:100,000	505:100,000	-
	2021	578:100,000	518:100,000	-
	Diff.	73:100,000	13:100,000	60:100,000

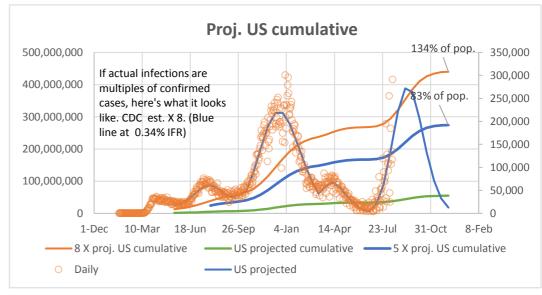
3 yr average 859:100,000

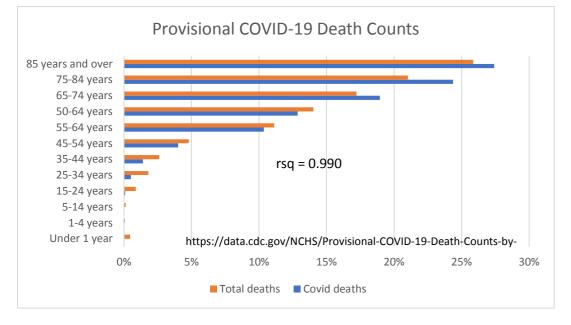
17% of All-Cause excess deaths are non-CV19

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

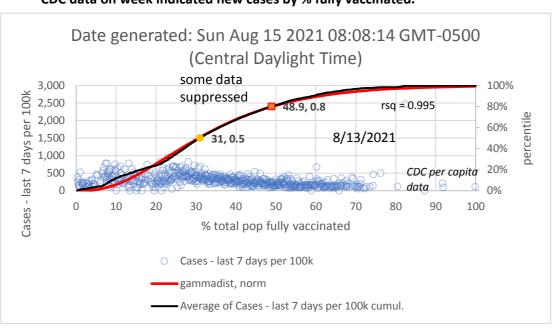




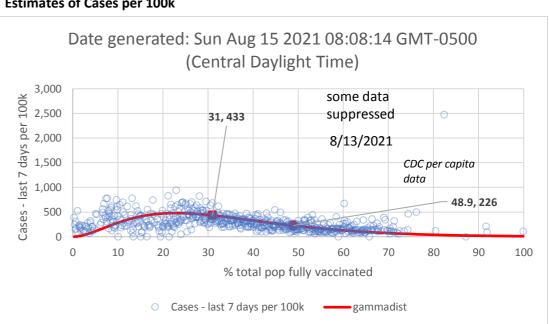




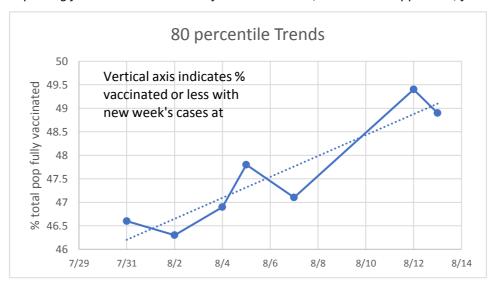
CDC data on week indicated new cases by % fully vaccinated.



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