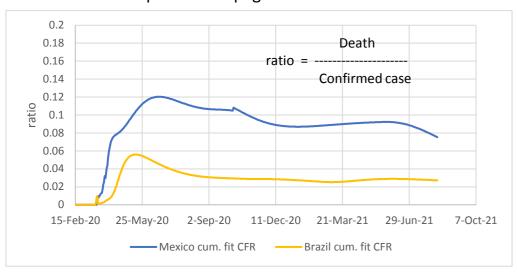
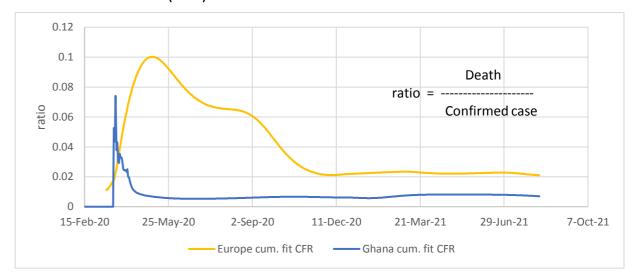
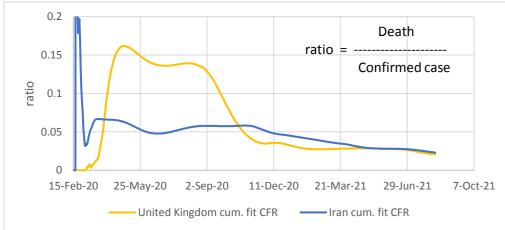
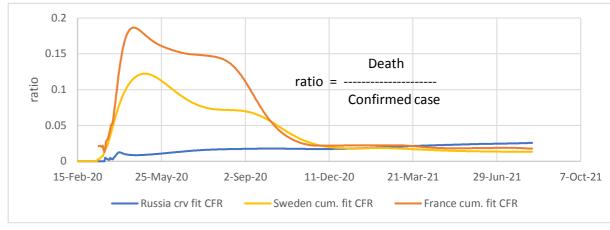
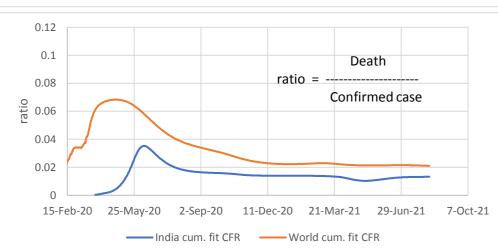
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

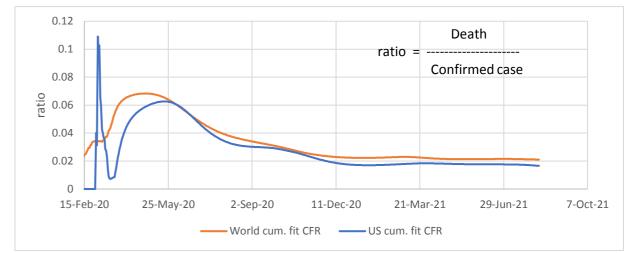




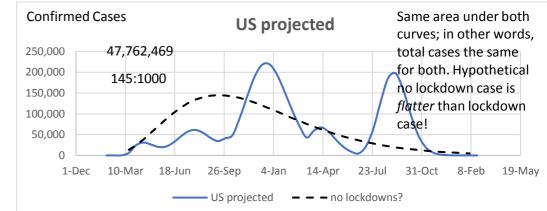


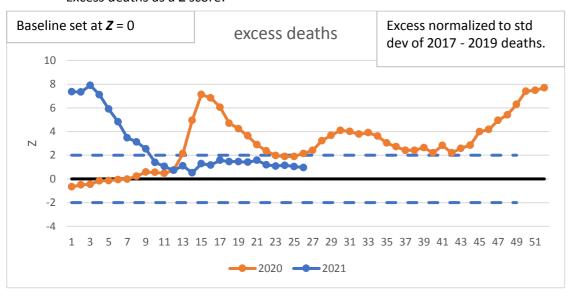


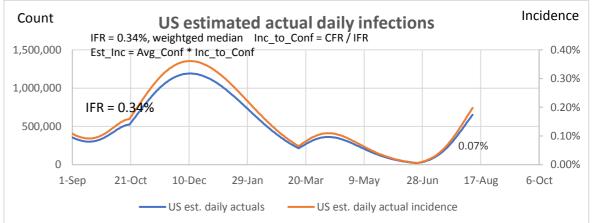




# Excess deaths as a Z score:





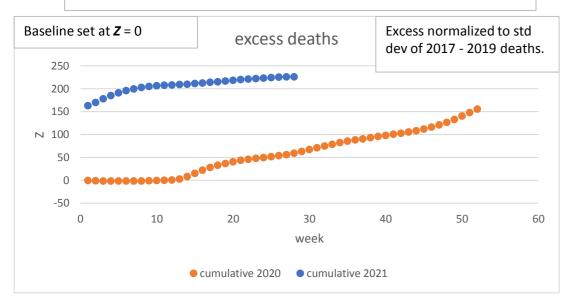


Above based on Z score of two year standard deviation from 2017-2019. What follows is cumulative plot of same.

## 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	9% accuracy o	f 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.

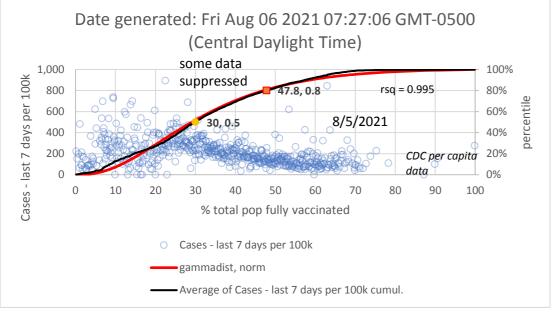
TRUE + 0.97%/1.96% 49.5% FALSE + 0.99%/1.96% 50.5% Total ------- 100.00%

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

#### 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 rsq = 0.99025-34 years 15-24 years 5-14 years 1-4 years Under 1 year https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-0% 5% 15% 20% 25% 30% 10% ■ Total deaths ■ Covid deaths

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



### 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/N	CHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

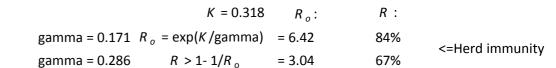
### **USA Excess Deaths to date (from CDC data):**

					_
	29 weeks	All Cause	All C	ause, excl. CV19	CV19
3	yr average before 2020	472:10	00,000	472:100,000	-
	2021	557:10	00,000	485:100,000	-
	Diff.	86:10	0,000	13:100,000	73:100,000

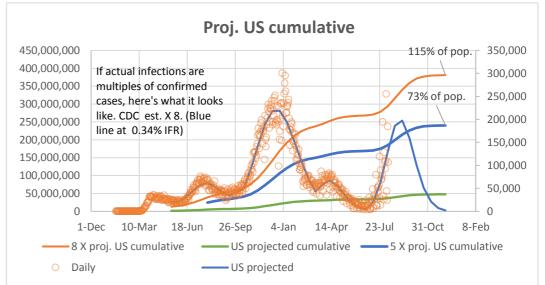
3 yr average 859:100,000

15% of All-Cause excess deaths are non-CV19

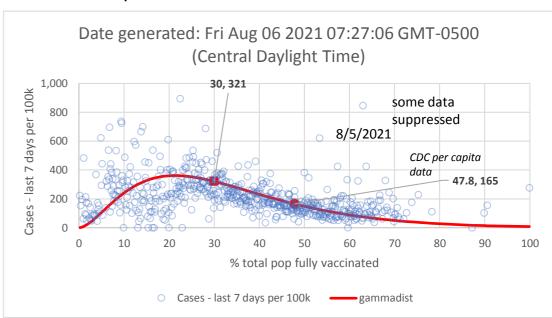
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data



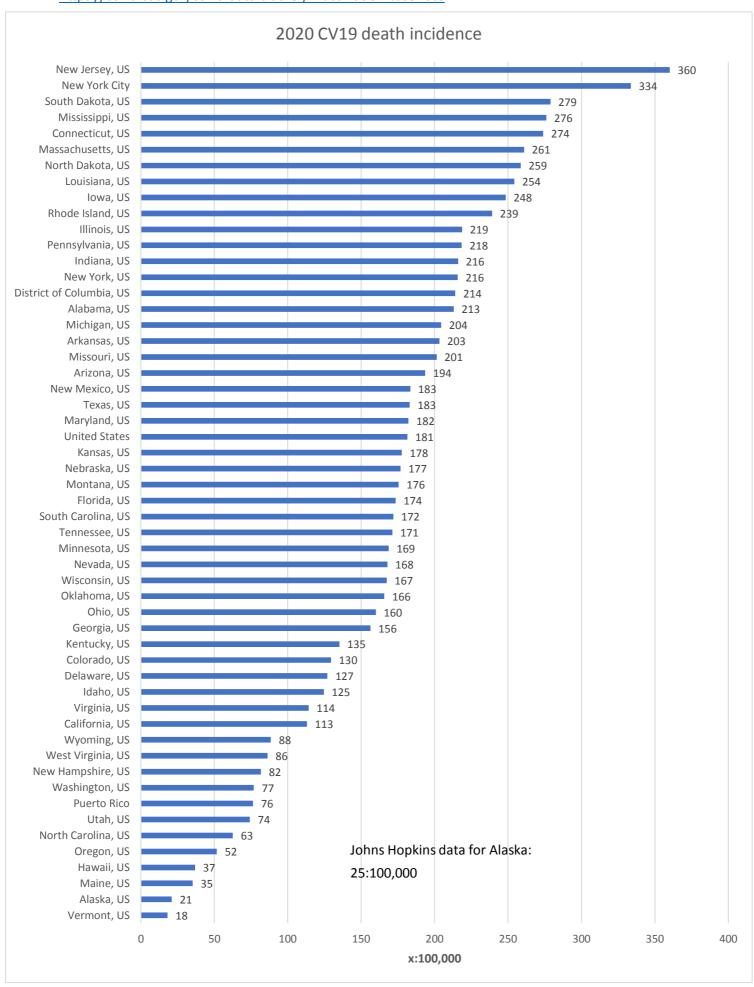
R is recovered variable.



## Estimates of Cases per 100k



reporting jurisdictions is not a uniform distribution; some data suppressed, for example Texas curve fit constrained by 100% vaccinated at 100 percentile



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