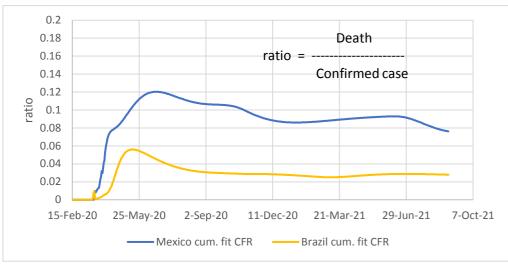
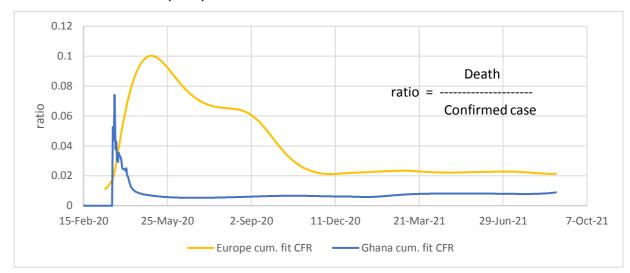
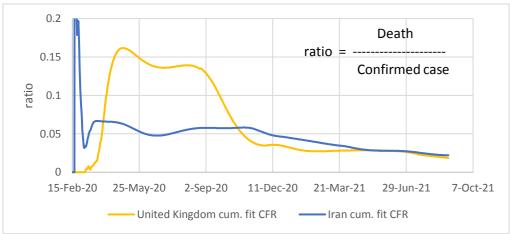
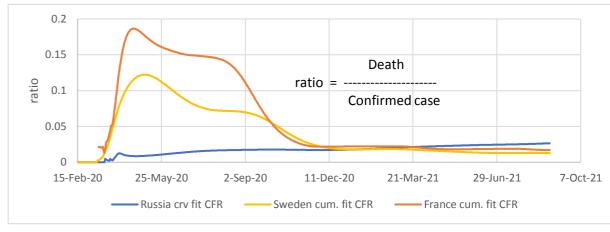
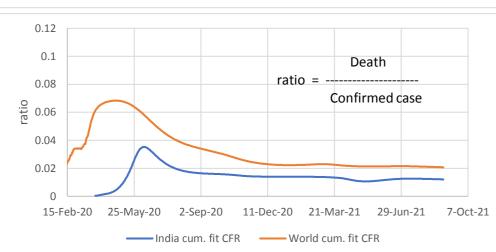
### Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

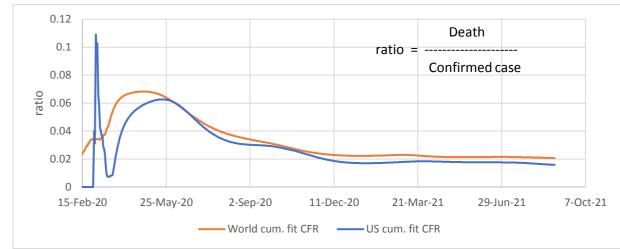




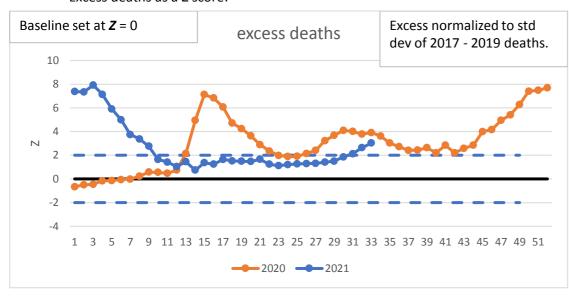


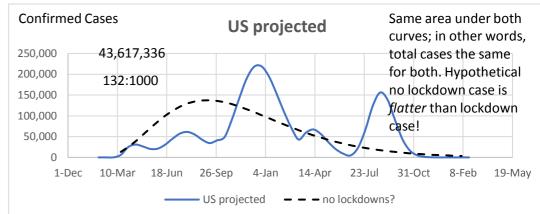




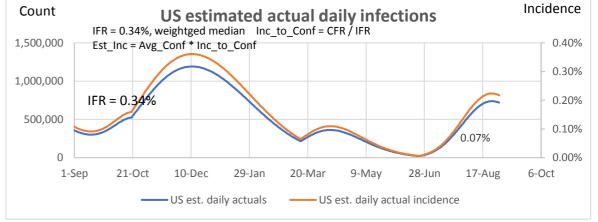


# Excess deaths as a Z score:



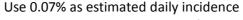


Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.



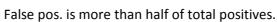
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely

## **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 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% 10% 30% ■ Total deaths ■ Covid deaths

#### 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 dq 10,000 ses 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 avera	ge
859:100,0	00

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

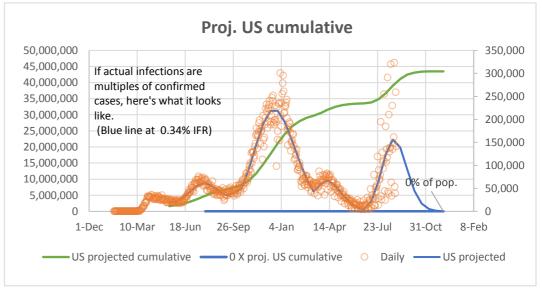
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

K = 0.318  $R_o$ : R:

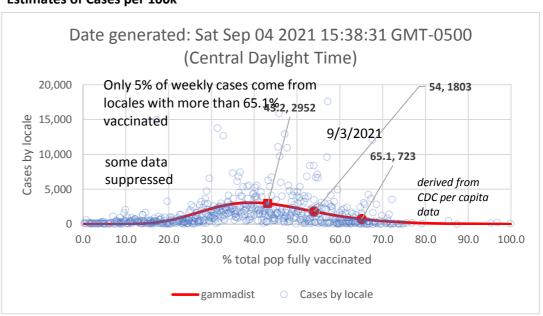
gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$  84%

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

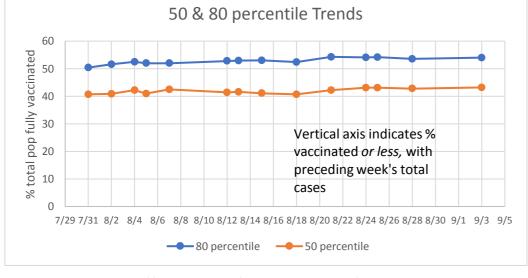
R is recovered variable.



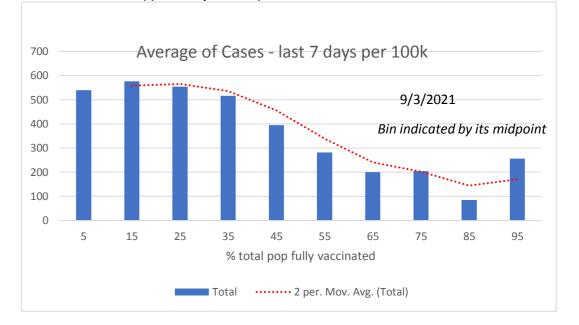
### Estimates of Cases per 100k



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



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





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