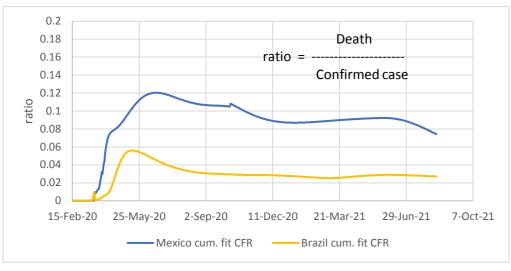
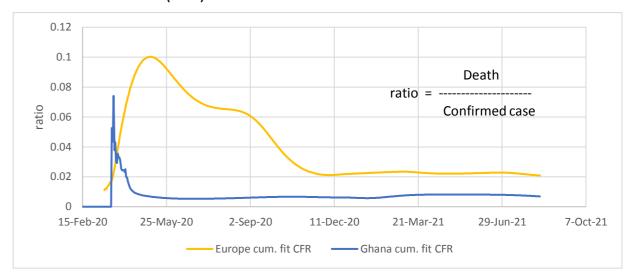
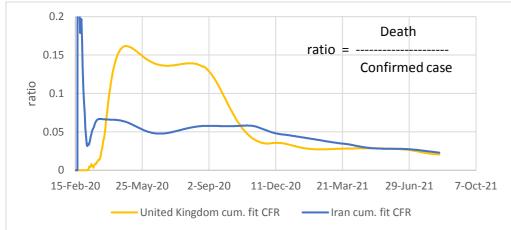
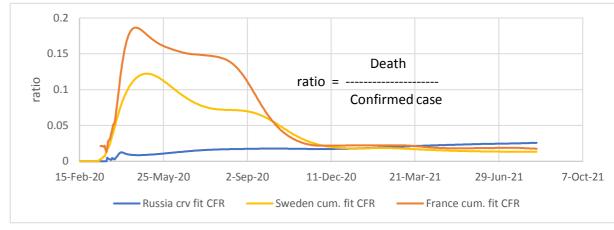
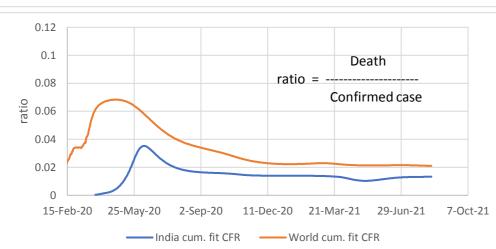
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

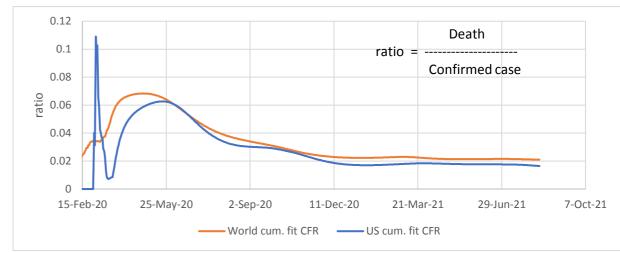




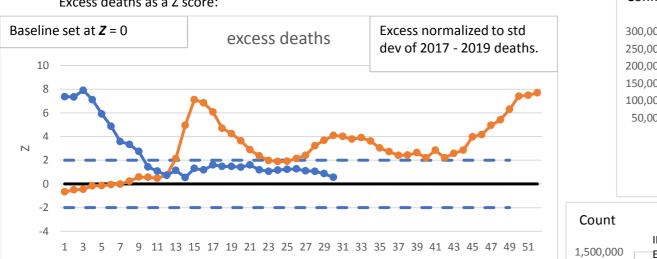


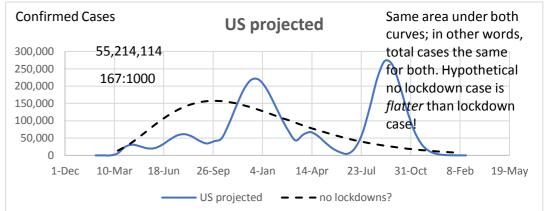






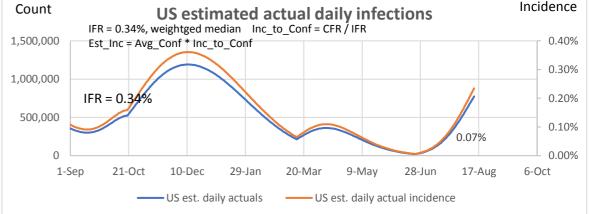
# Excess deaths as a Z score:





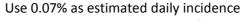
Above based on Z score of two year standard deviation from 2017-2019. What follows is cumulative plot of same.

**-**2020 **--**2021



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

250	 999	% accuracy o	f test
200		Positive	Negative
150	test pos	0.970%	0.990%
√ 100	 test neg	0.010%	98.030%
50	 	0.980%	99.020%
50			

0.07% X 14 = 0.980%

	1 0316146	Negative	
test pos	0.970%	0.990%	1.96%
test neg	0.010%	98.030%	98.04%
	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%

negative, and go spread it around some more.

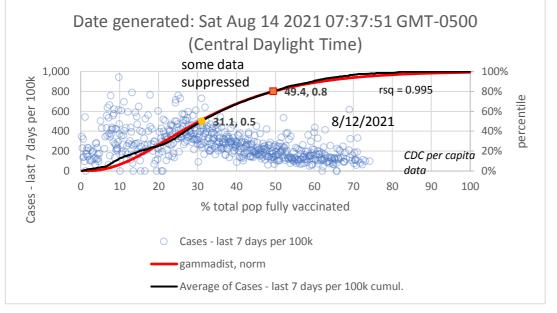
False pos. is more than half of total positives. % <u>%</u> % Counter-act this tendency by increasing test sensitivity. However this may increase false negatives, the recipients of which may be positive, think they're

#### 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% 10% 15% 20% 25% 30%

■ 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/dai

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

	31 weeks	All Cause	All C	ause, excl. CV19	CV19
3	yr average before 2020	505:10	00,000	505:100,000	-
	2021	578:10	00,000	518:100,000	-
	Diff.	73:10	0,000	13:100,000	60:100,000

3 yr average 859:100,000 17% of

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

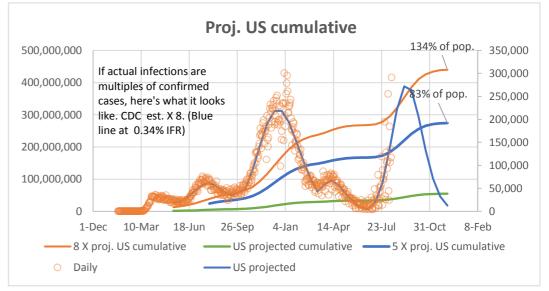
 $\underline{https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data}$ 

K = 0.318  $R_o$ : R:

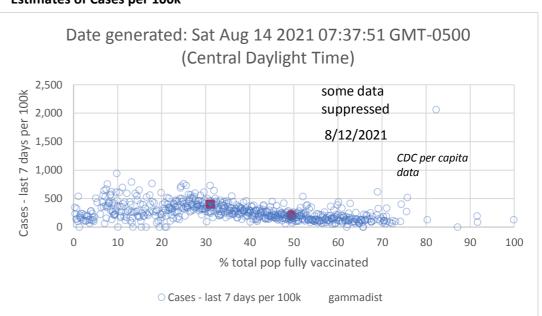
gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$  84%

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

 $\underline{\text{https://covid.cdc.gov/covid-data-tracker/\#vaccination-case-rate}}$ 



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