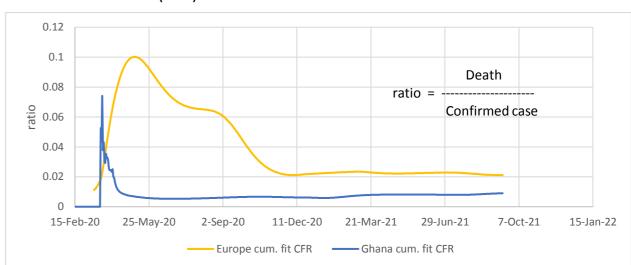
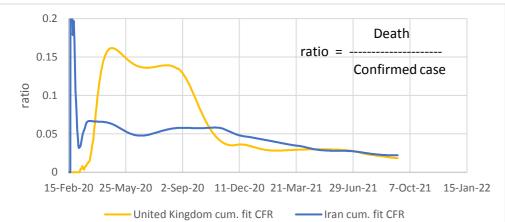
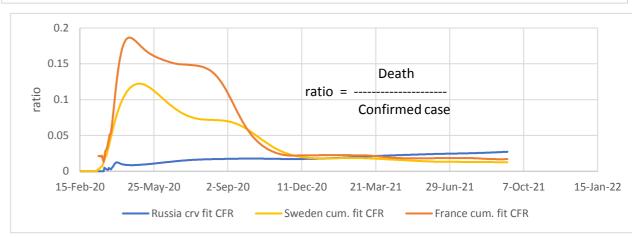
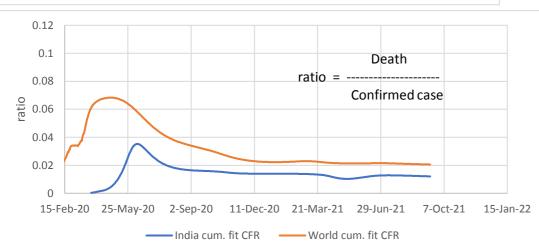
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

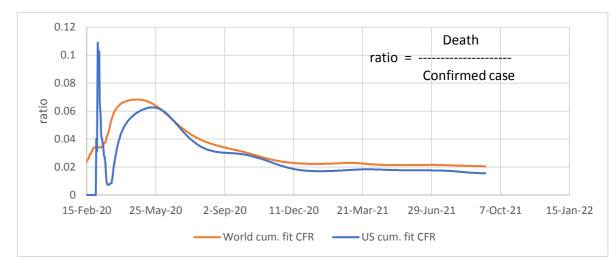












Excess deaths as a Z score:

follows is cumulative plot of same.

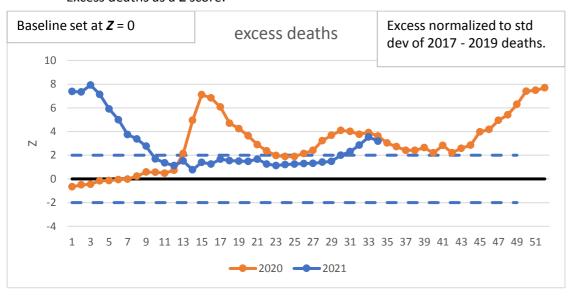
Baseline set at Z = 0

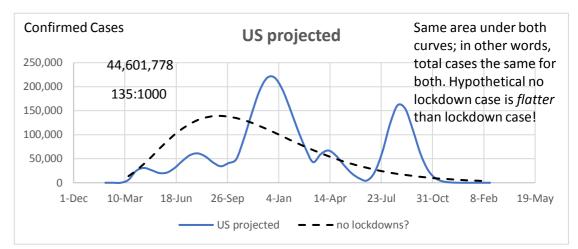
-50

0

10

cumulative 2020





Above based on Z score of two standard deviation from 2017-2019. What

60

Excess normalized to std

50

Count



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

dev of 2017 - 2019 deaths. 300 250 200 150 Ν 100 50 0

30

week

40

zeroed cumulative 2021

excess deaths

False Positives Demonstration

Use 0.20% as estimated daily incidence

Prevalence estimated as avg. infected period of 2 weeks X incidence 95% accuracy of test

957	95% accuracy of test			
	Positive	Negative		
test pos	2.660%	4.860%		
test neg	0.140%	92.340%		
	2.800%	97.200%	1	

 $0.20\% \times 14 = 2.800\%$ Sensitivity Probability of detection

where condition exists

95%

7.52% 92.48% 100.00%

True + / (True + & False -) 95% **Specificity** Probability of not detecting where

Incidence

condition doesn't exist <u>64.6%</u> 100.00% True - / (True - & False +)

False pos. is more than half of total positives. TRUE + 2.66%/7.52% 35.4% 4.86%/7.52% FALSE + Total

cumulative 2021

US mortality vs. India 250:100,000 200:100,000 150:100,000 100:100,000 50:100,000 0:100,000 10-Mar 31-Oct 1-Dec 18-Jun 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

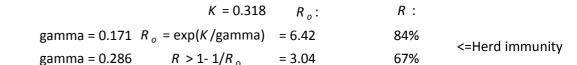
USA Excess Deaths to date (from CDC data):

	35 weeks	All Cause	All Cause, excl. CV19	CV19
3	yr average before 2020	573:100,000	573:100,000	-
	2021	673:100,000	587:100,000	1
	Diff.	100:100,000	14:100,000	86:100,000

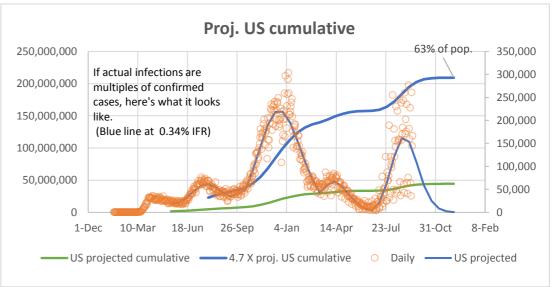
3 yr average	
859:100.000	

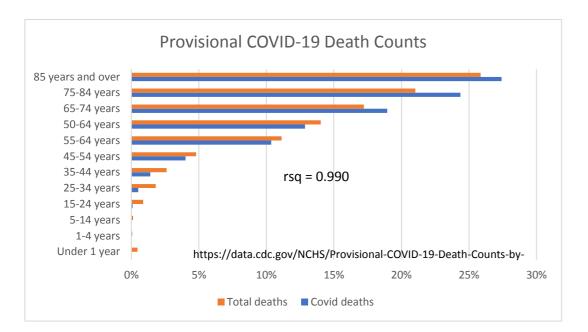
14% of All-Cause excess deaths are non-CV19

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

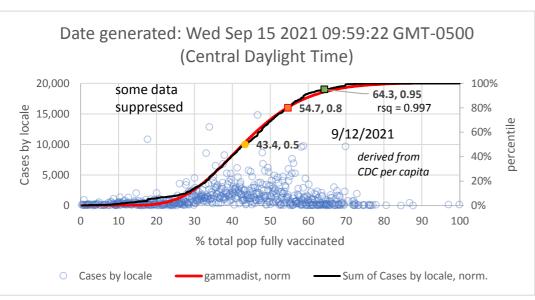


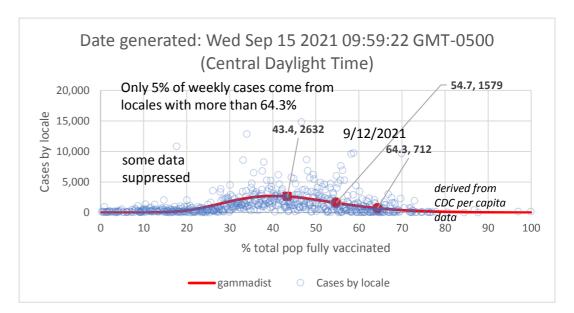
R is recovered variable.



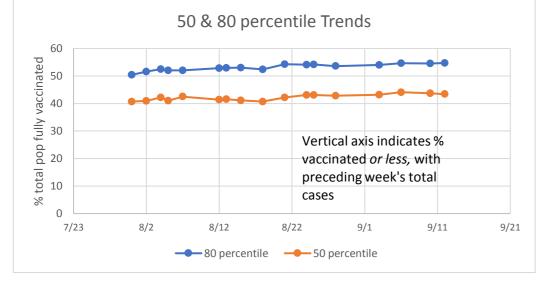


CDC county data on week indicated new cases, by % fully vaccinated.

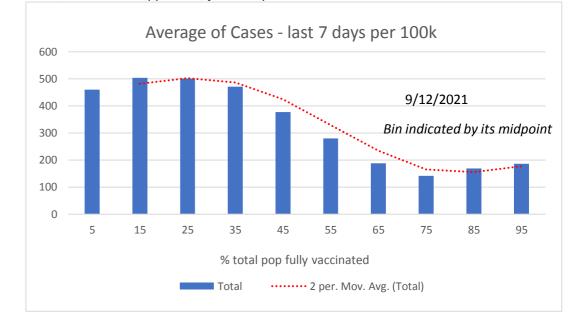


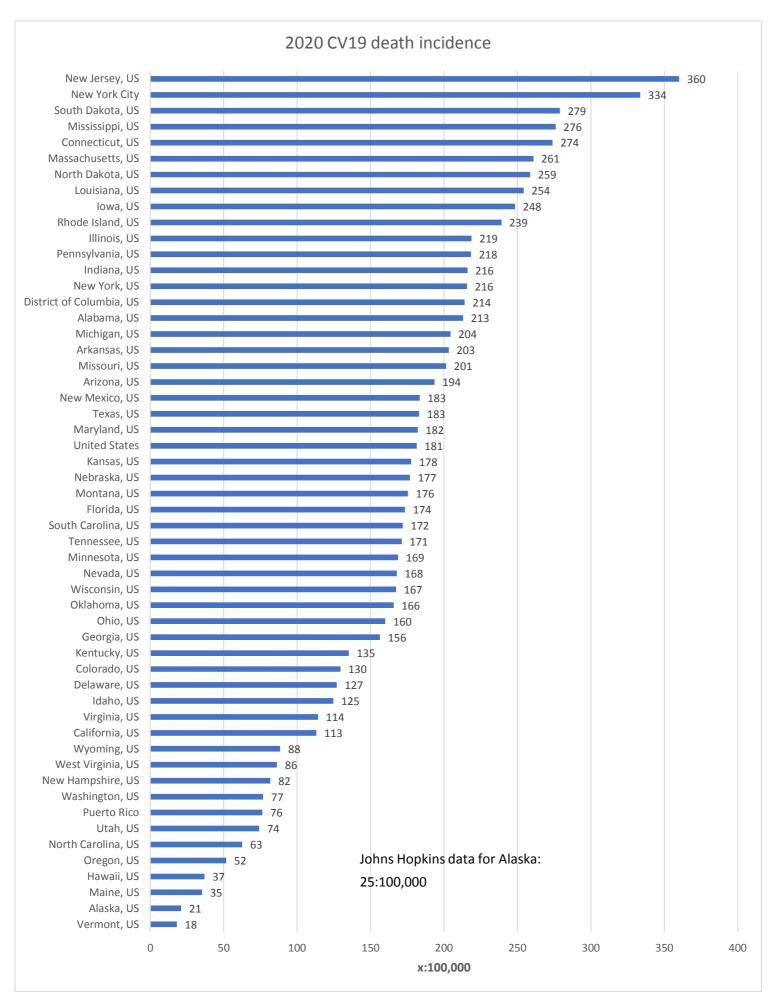


reporting jurisdictions is not a uniform distribution; some data suppressed, for example Texas









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