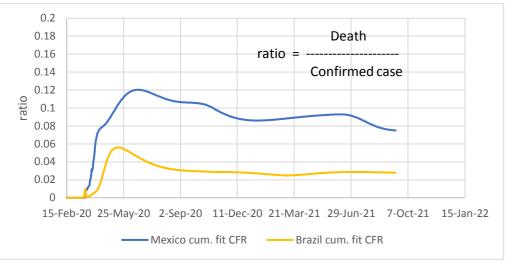
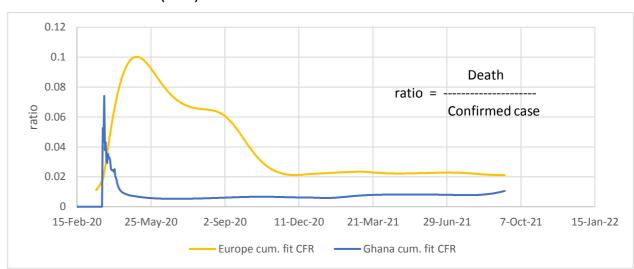
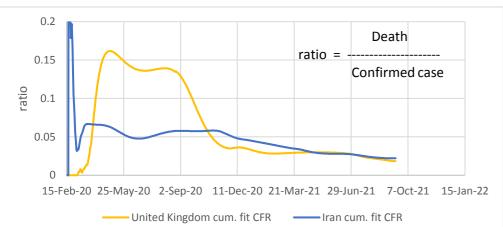
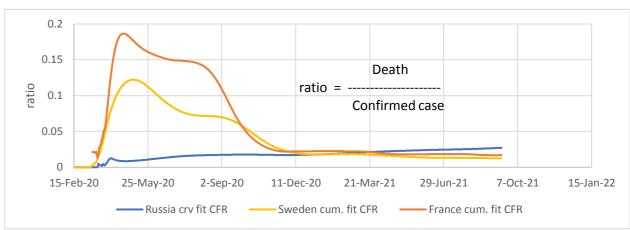
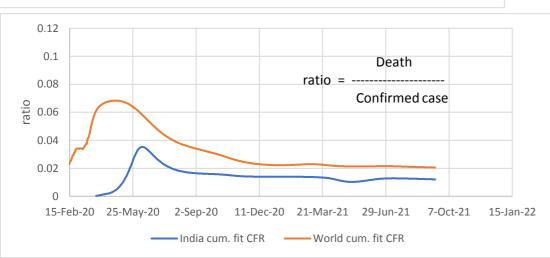
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

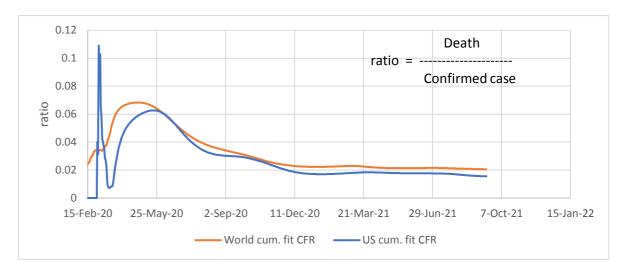






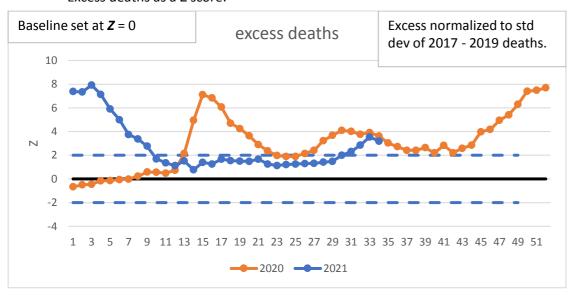


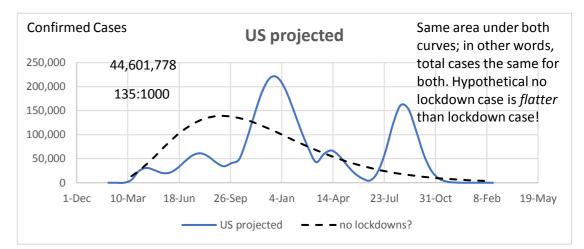




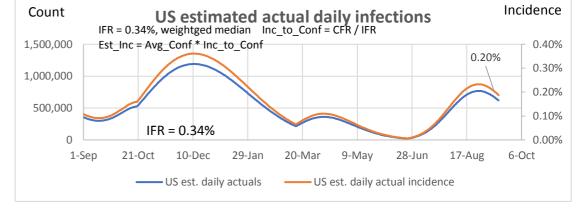
Excess deaths as a Z score:

follows is cumulative plot of same.

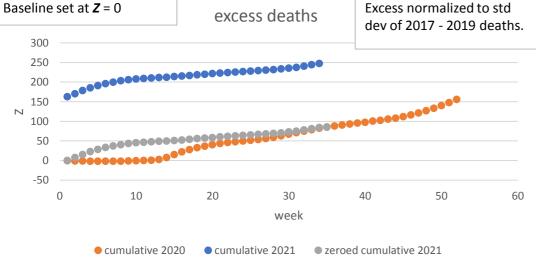




Above based on Z score of two standard deviation from 2017-2019. What



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

Use 0.20% as estimated daily incidence

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

	95% accuracy o	f test	
	Positive	Negative	
test pos	2.660%	4.860%	7.5
test neg	0.140%	92.340%	92.4
	2.800%	97.200%	100.0

 $0.20\% \times 14 = 2.800\%$ Sensitivity

	Positive	Negative	
st pos	2.660%	4.860%	7.52%
st neg	0.140%	92.340%	92.48%
	2.800%	97.200%	100.00%

Probability of detection where condition exists True + / (True + & False -) 95%

False pos. is more than half of total positives.

TRUE + 2.66%/7.52% 35.4% 4.86%/7.52% FALSE + <u>64.6%</u> Total 100.00%

Specificity Probability of not detecting where condition doesn't exist True - / (True - & False +) 95%

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

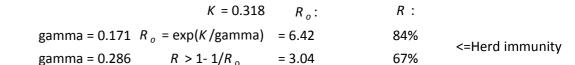
USA Excess Deaths to date (from CDC data):

	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	-
	Diff.	100:100,000	14:100,000	86:100,000

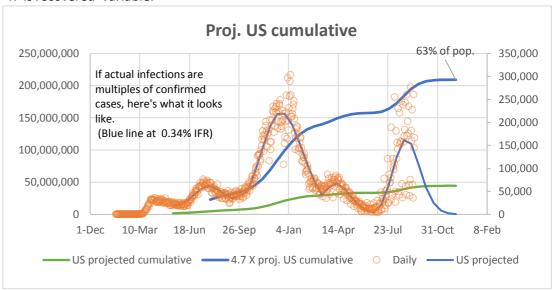
3	yr average
8	59:100,000

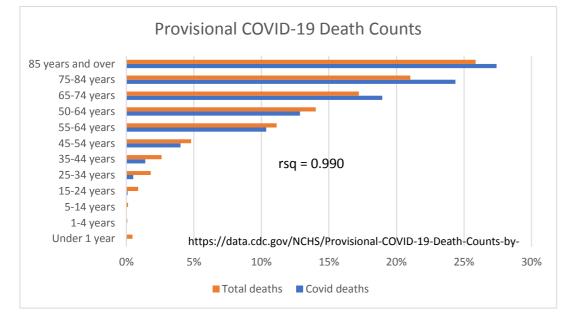
14% of All-Cause excess deaths are non-CV19

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

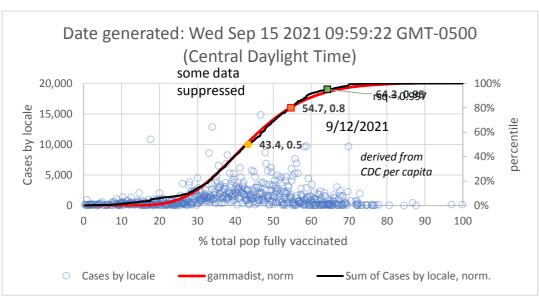


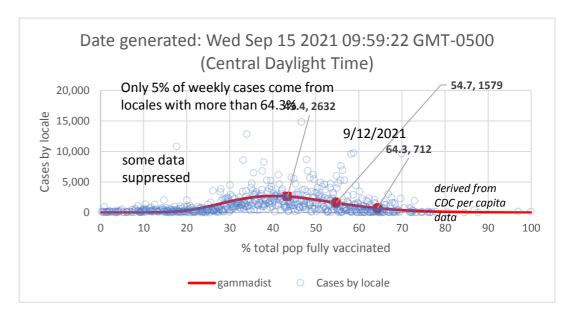
R is recovered variable.



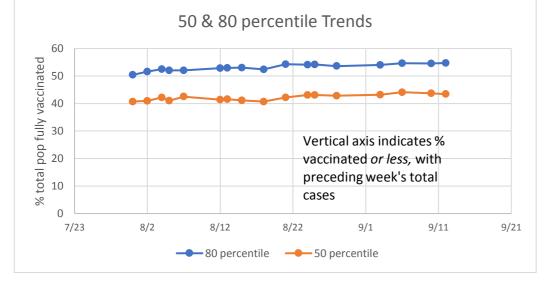


CDC county data on week indicated new cases, by % fully vaccinated.

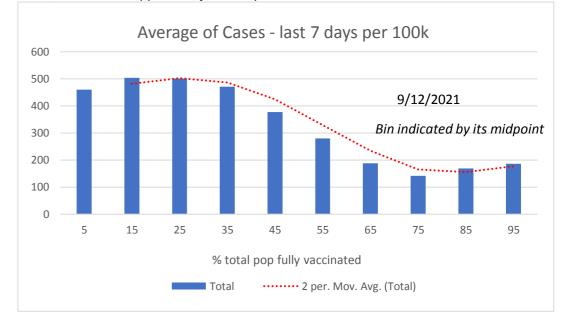


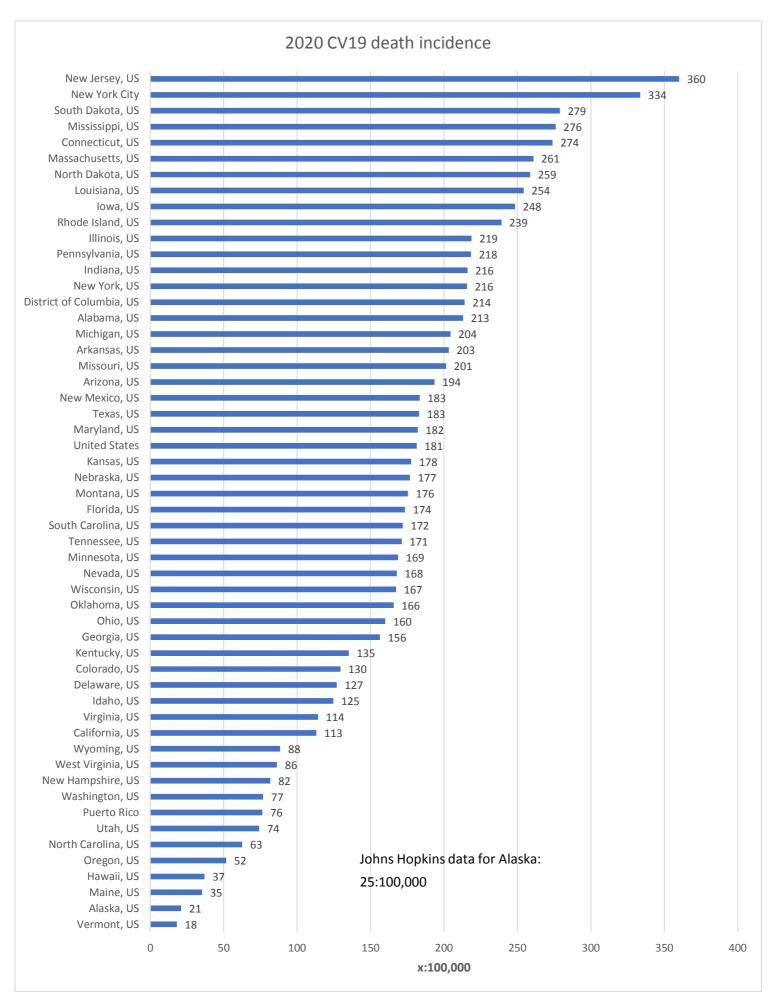


reporting jurisdictions is not a uniform distribution; some data suppressed, for example Texas



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





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