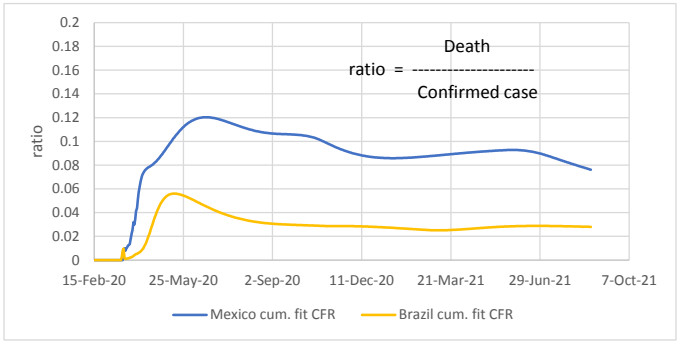
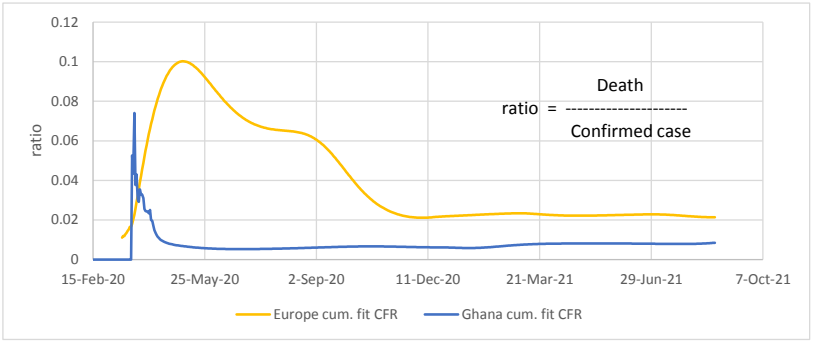
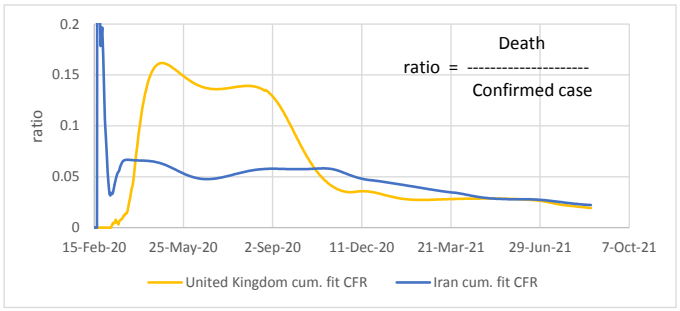
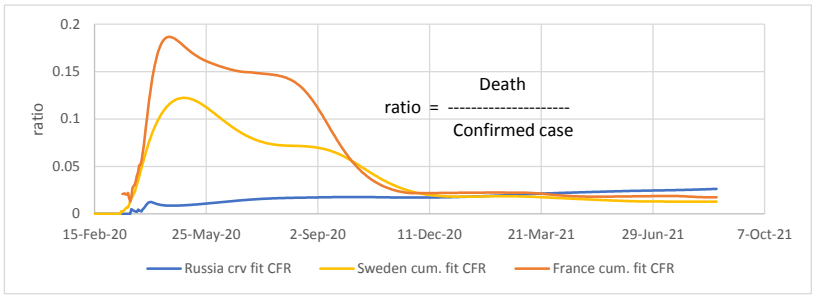
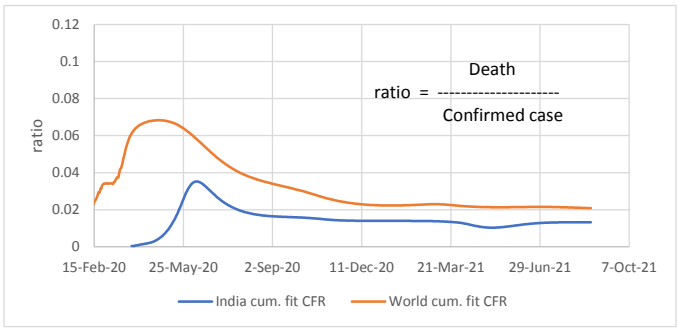
Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

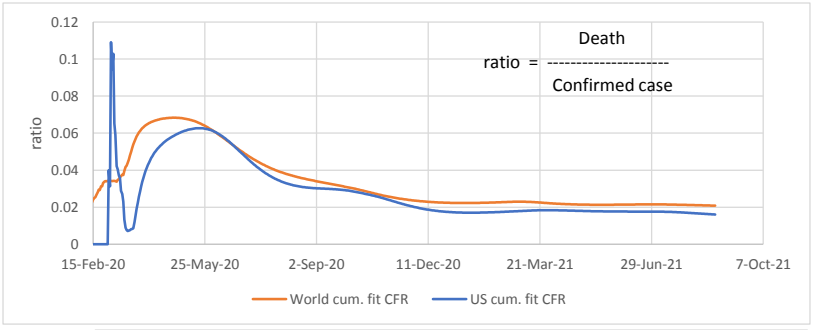






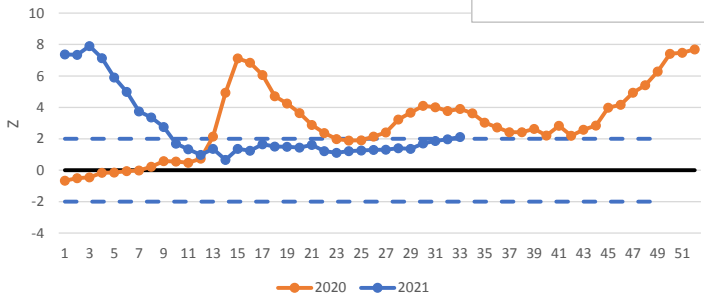




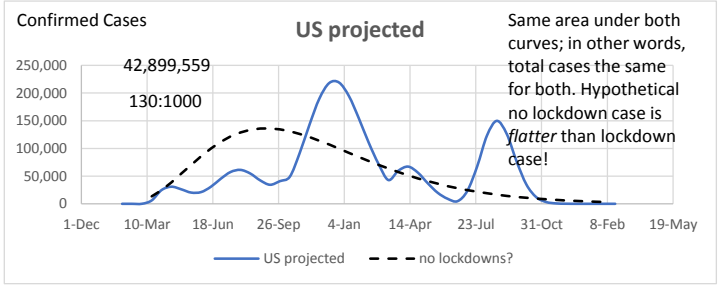


Excess deaths as a Z score:

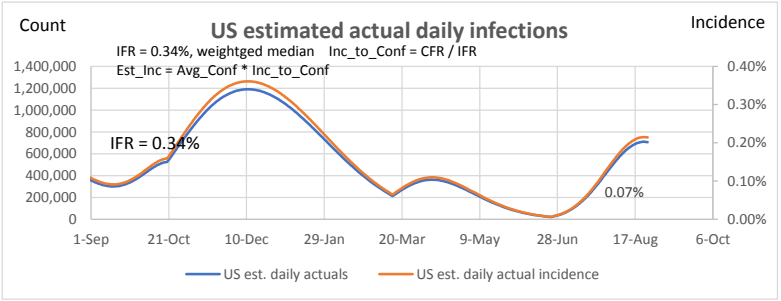
Baseline set at ***Z*** = 0



Excess normalized to std dev of 2017 - 2019 deaths.



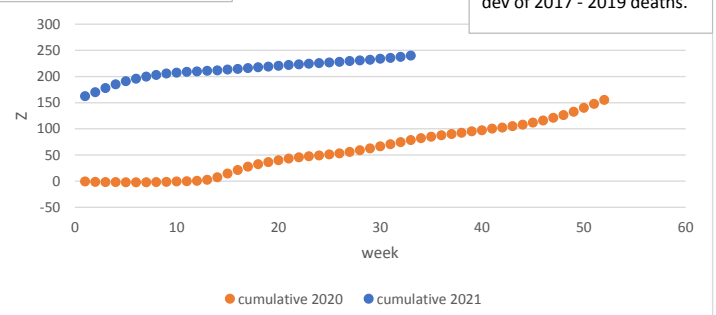
Same area under both curves; in other words, total cases the same for both. Hypothetical no lockdown case is *flatter* than lockdown case!



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

Baseline set at ***Z*** = 0



Excess normalized to std dev of 2017 - 2019 deaths.

<u>False Positives Demonstration</u>

Use 0.07% as estimated daily incidence

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

0.07% X 14 = 0.980%

99% accuracy of test

	Positive	Negative	
test pos	0.970%	0.990%	1.96%
test neg	0.010%	98.030%	<u>98.04%</u>
	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%	<u>50.5%</u>
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.

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

USA Excess Deaths, 2020 (from CDC data):

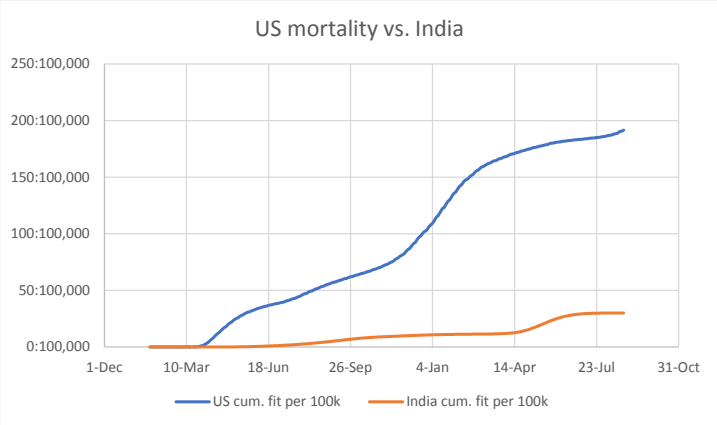
Annualized on 52 weeks

	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):

33 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	539:100,000	539:100,000	-
2021	633:100,000	554:100,000	-
Diff.	94:100,000	15:100,000	79:100,000

3 yr average
859:100,000

16% of All-Cause excess deaths are non-CV19

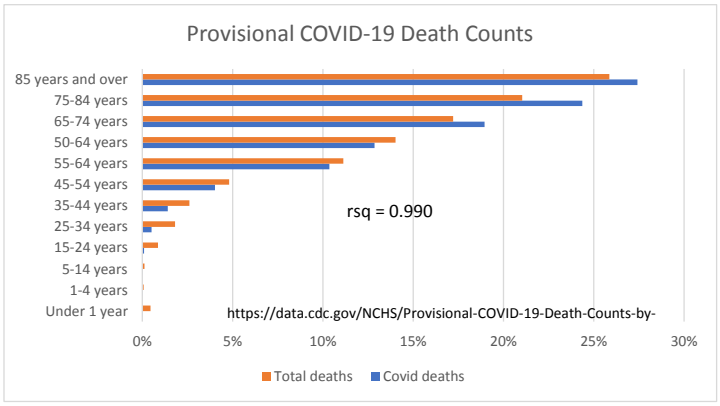
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

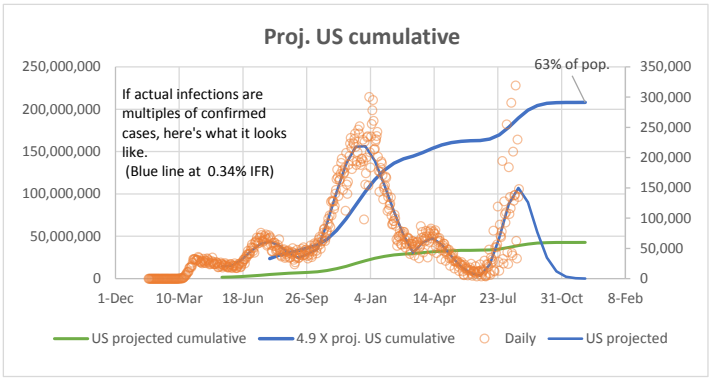
K = 0.318 R_o: R :

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

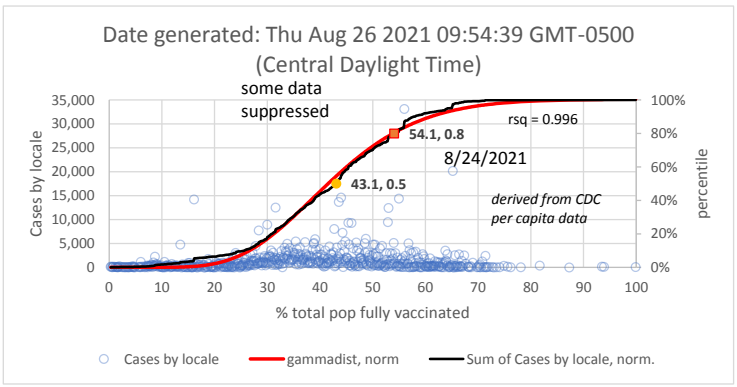
gamma = 0.286 $R > 1 - 1/R_o$ = 3.04 67%

R is *recovered* variable.

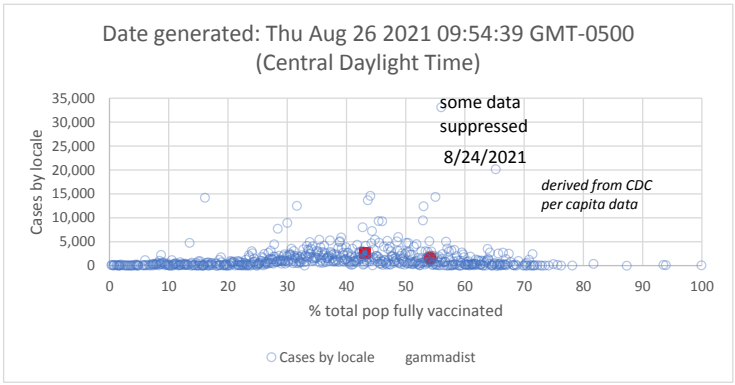




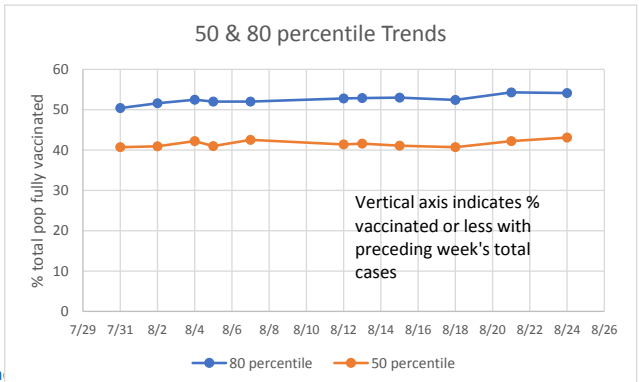
CDC county data on week indicated new cases, by % fully vaccinated.



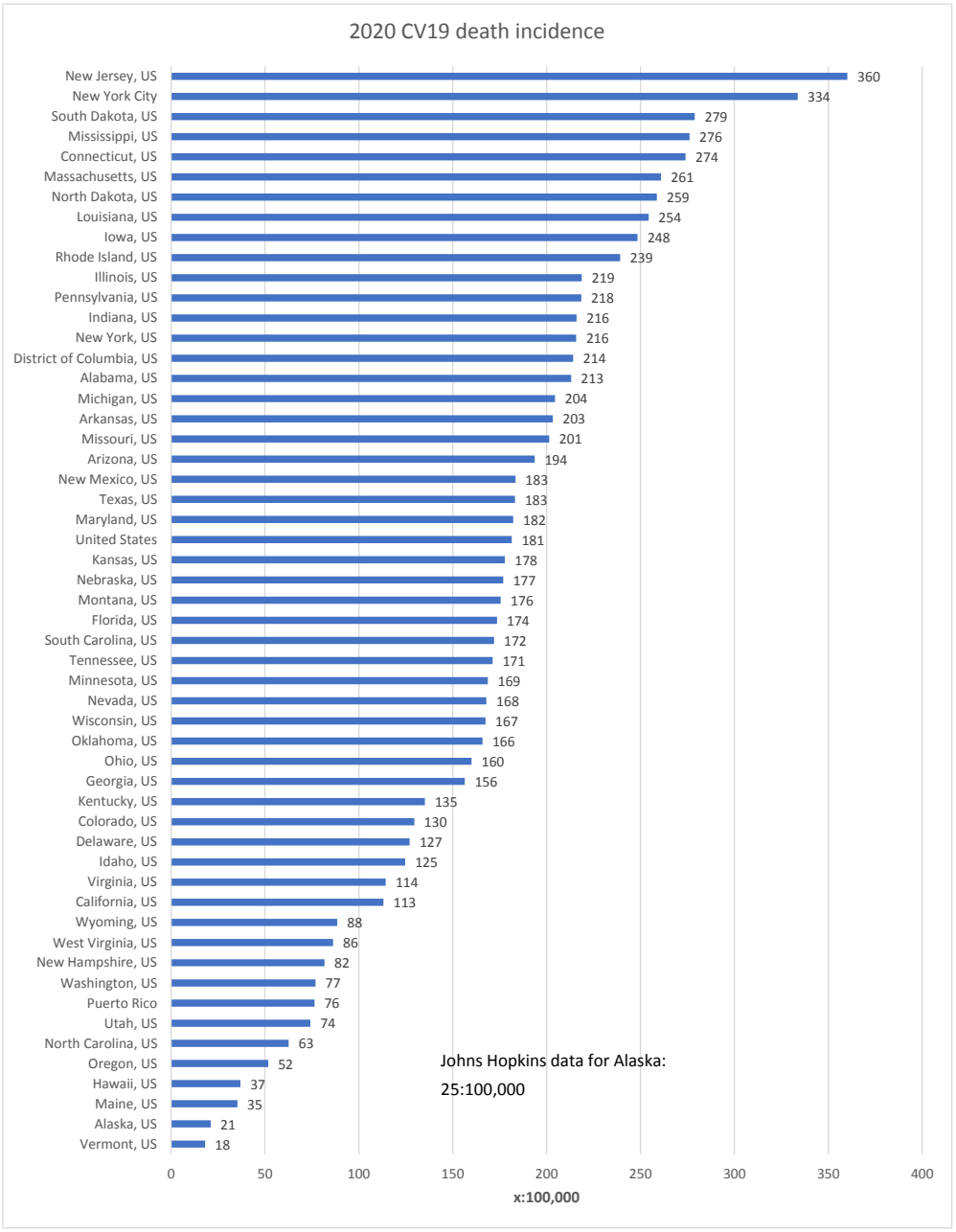
Estimates of Cases per 100k



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



https://covid.cdc.gov/covid-data-tracker/#va



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