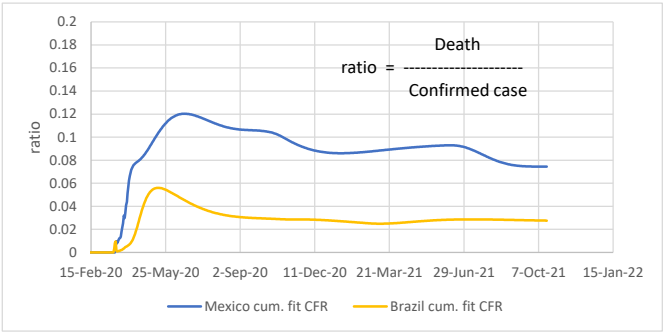
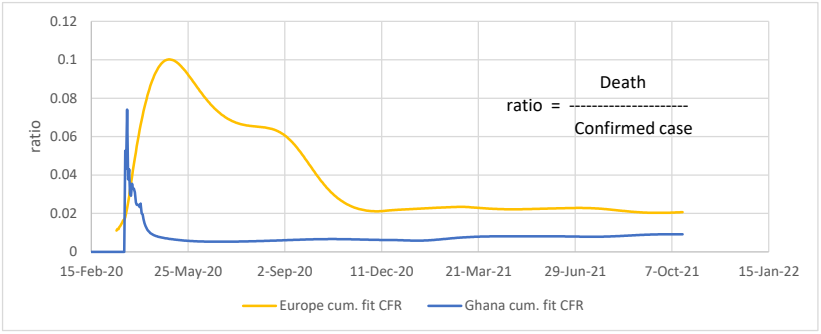
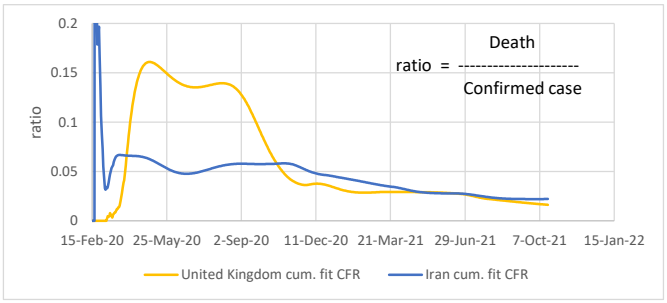
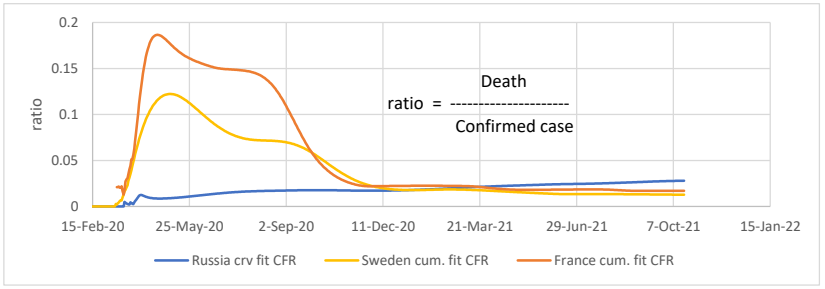
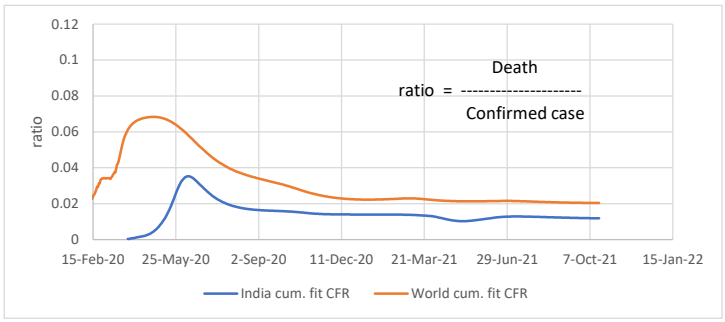
Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

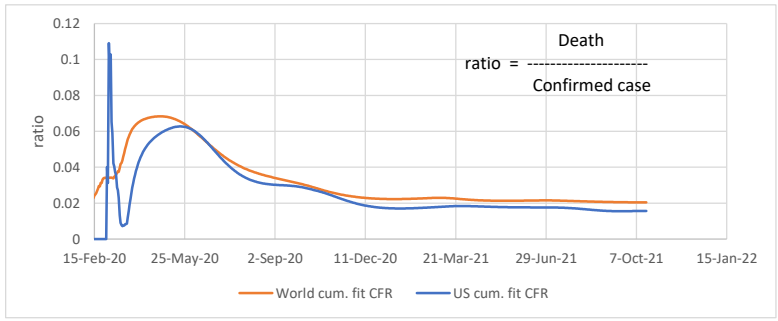




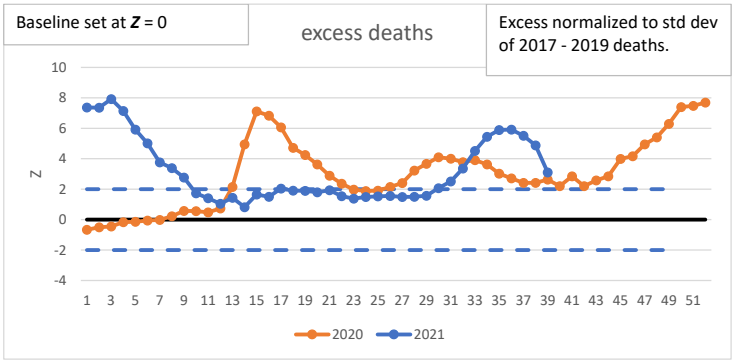


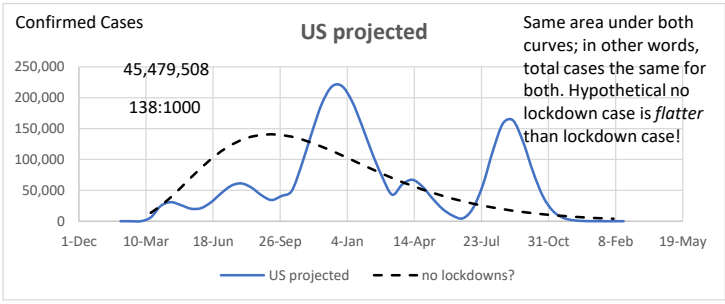






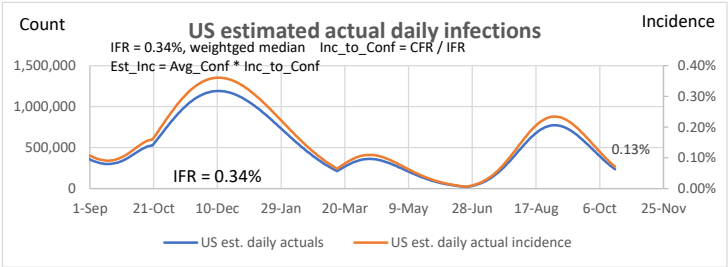
Excess deaths as a Z score:

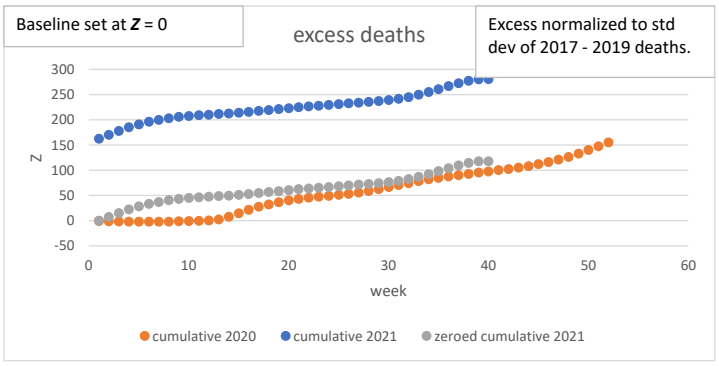




Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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





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

False Positives Demonstration

Use 0.11% as estimated daily incidence

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

0.11% X 14 = 1.540%

95% accuracy of test

	Positive	Negative	
test pos	1.463%	4.923%	6.39%
test neg	0.077%	93.537%	93.61%
	1.540%	98.460%	100.00%

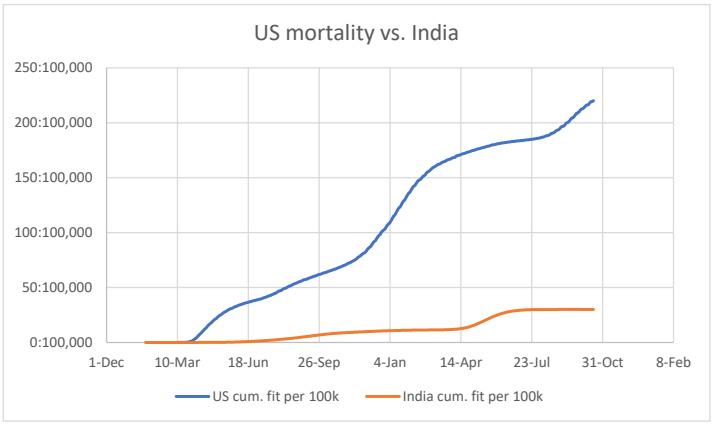
False pos. is more than half of total positives.

TRUE +	1.463%/6.39%	22.9%
FALSE +	4.923%/6.39%	77.1%
Total	----------	100.00%

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

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

Example only; sensitivity and specifity not necessarily equal.



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

Diff.

USA Excess Deaths to date (2021, from CDC data):

40 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	657:100,000	657:100,000	-
2021	785:100,000	677:100,000	-
Diff.	128:100,000	20:100,000	108:100,000

3 yr average
859:100,000

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

Diff.

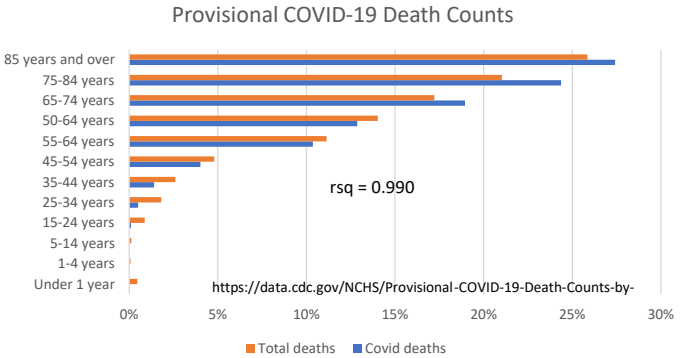
K = 0.318 R_o: R :

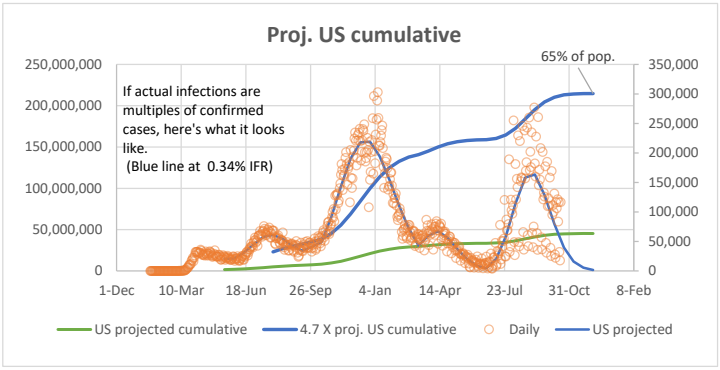
gamma = 0.171 $R_o = \exp(K/\text{gamma})$ = 6.42 84%

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

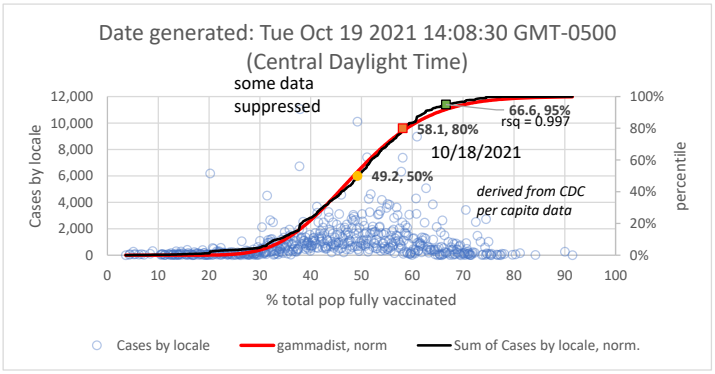
<=Herd immunity

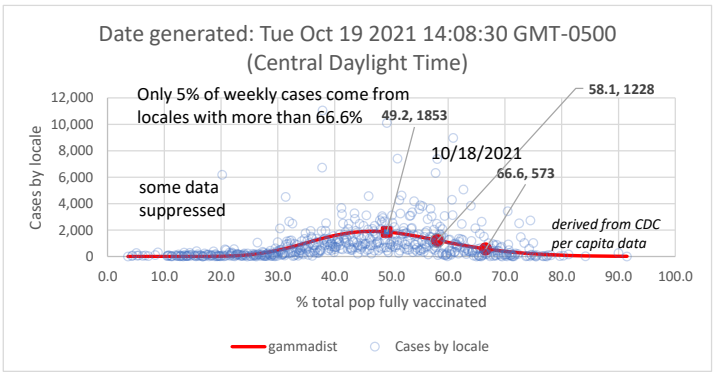
R is *recovered* variable.



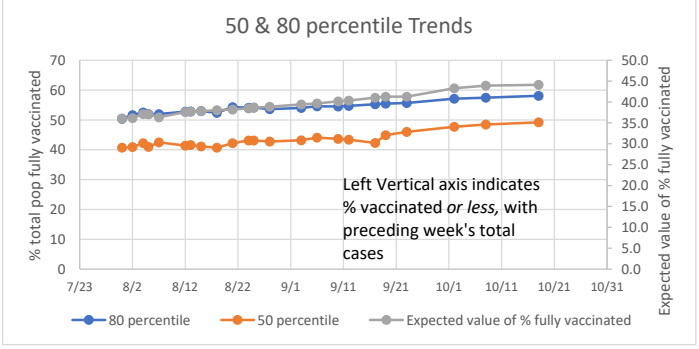


CDC county data on week indicated new cases, by % fully vaccinated.

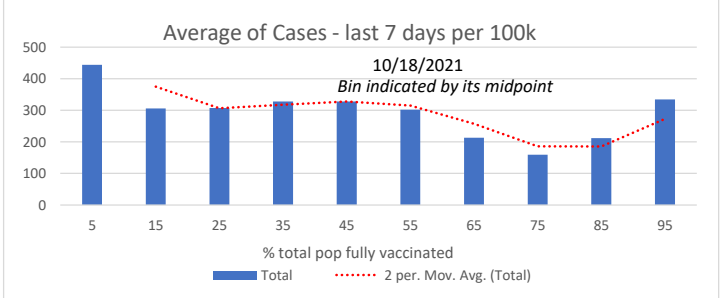




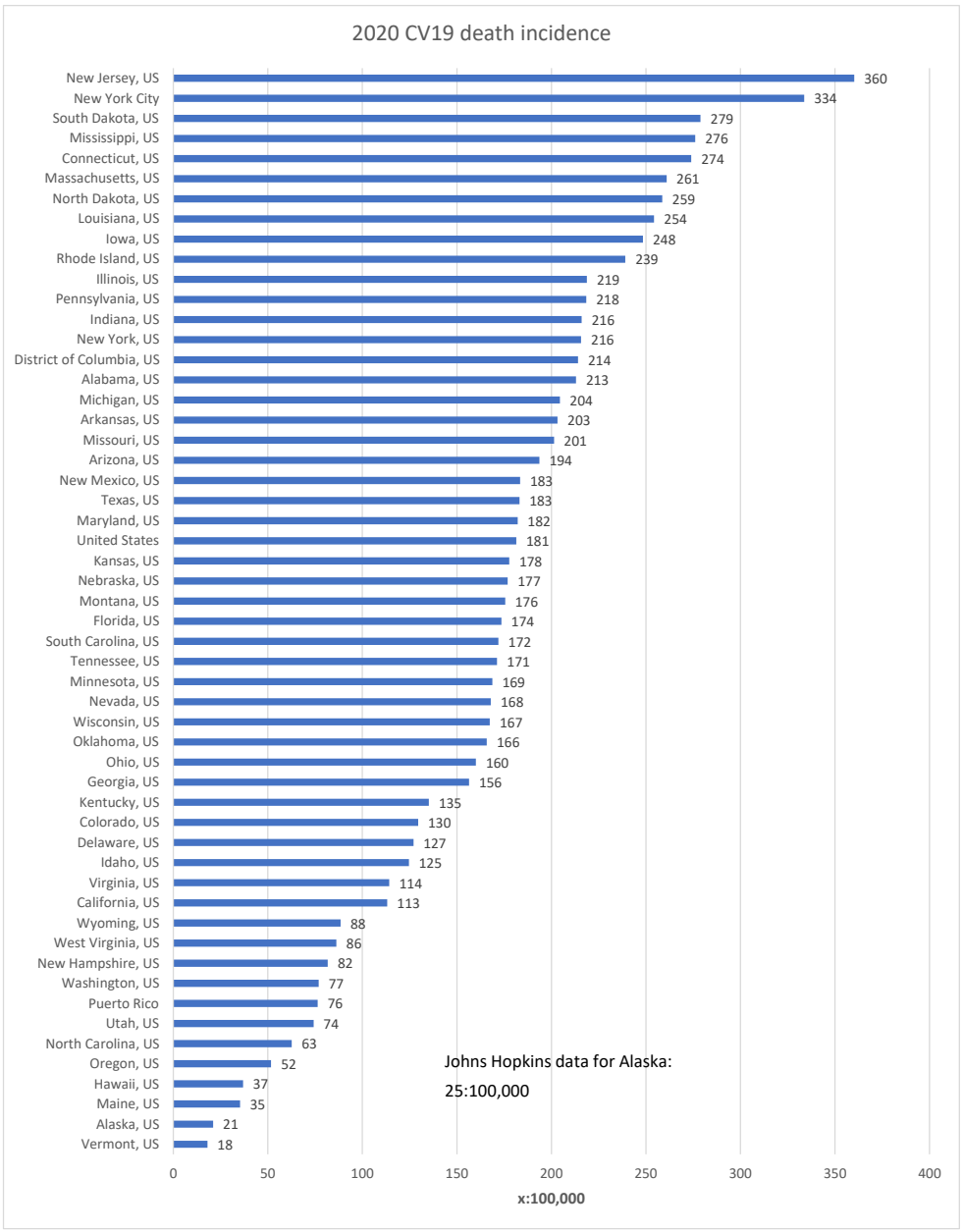
reporting jurisdictions not uniformly distributed; some data suppressed, for example, Texas



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



Estimates of Cases per 100k



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