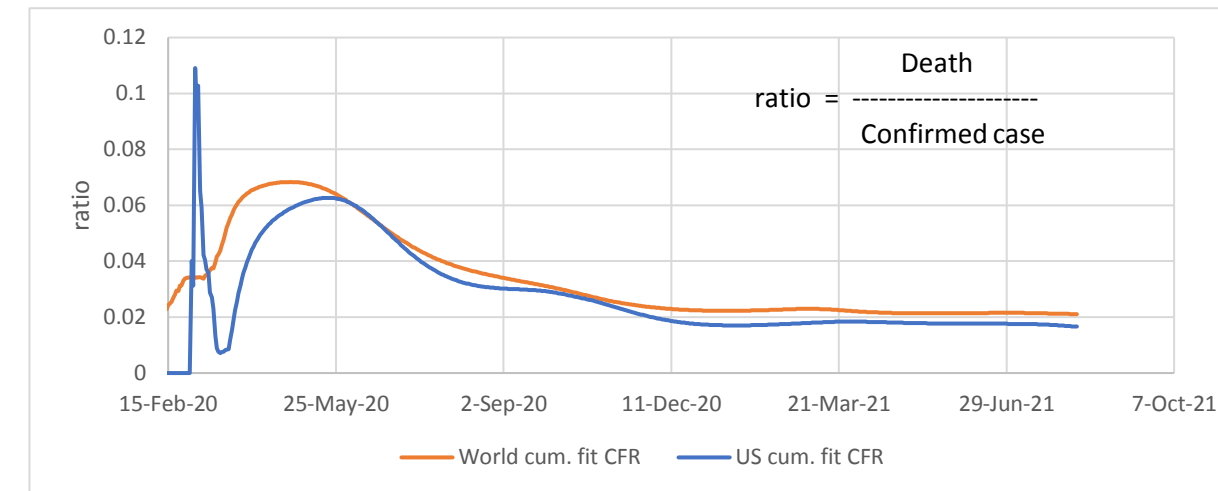
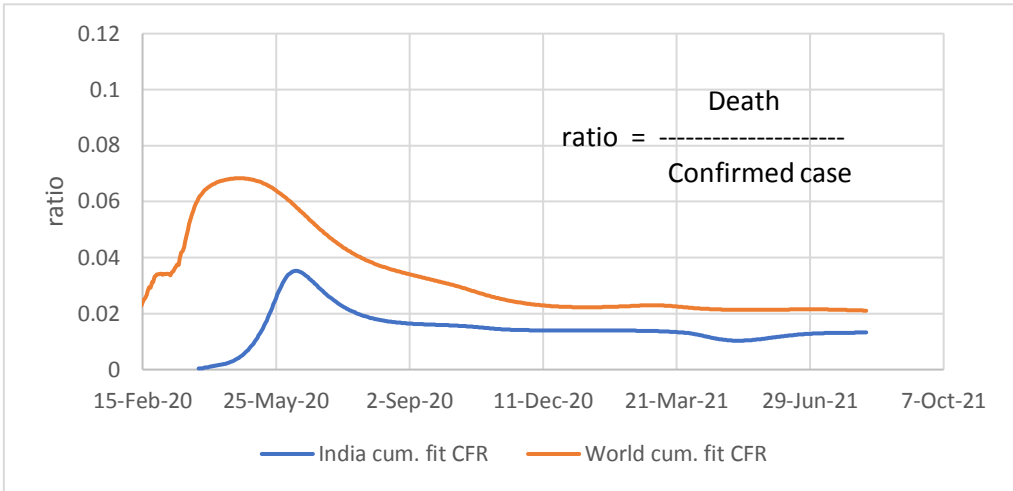
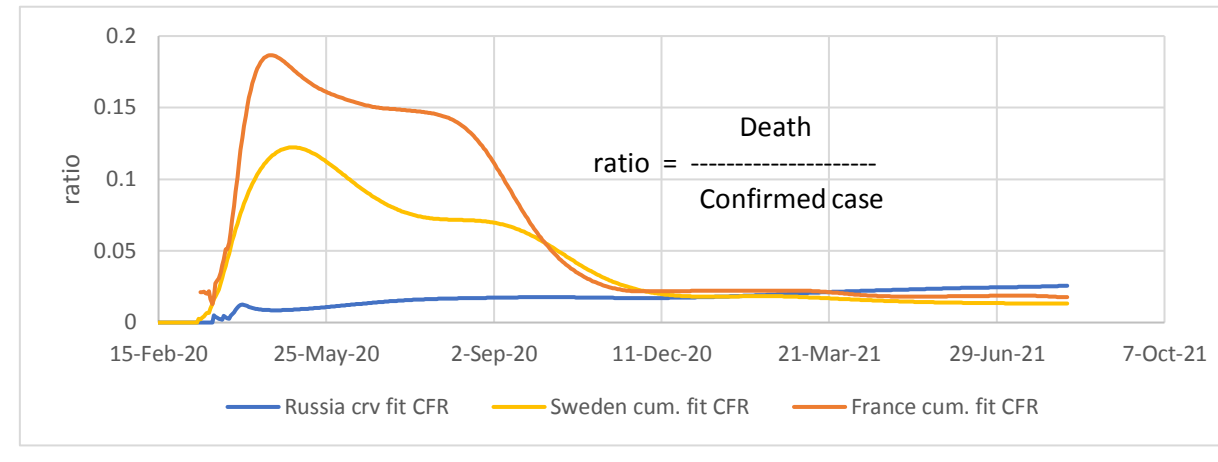
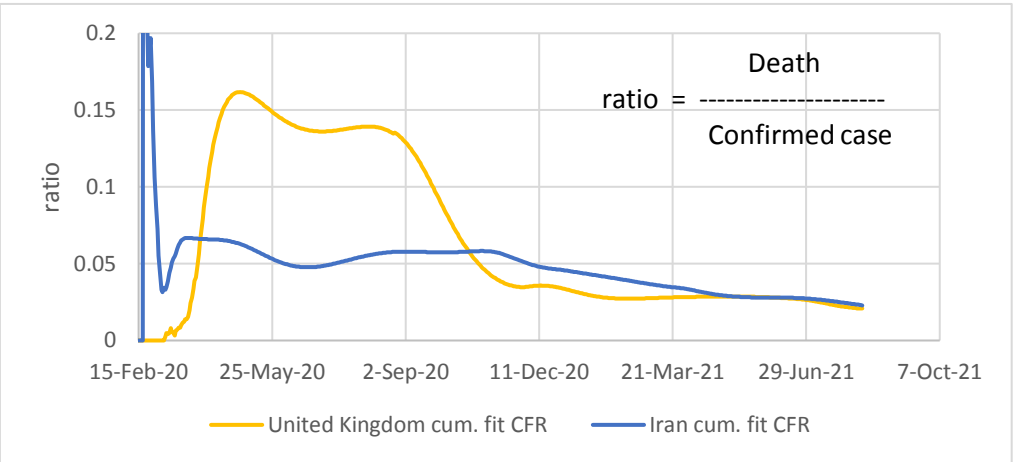
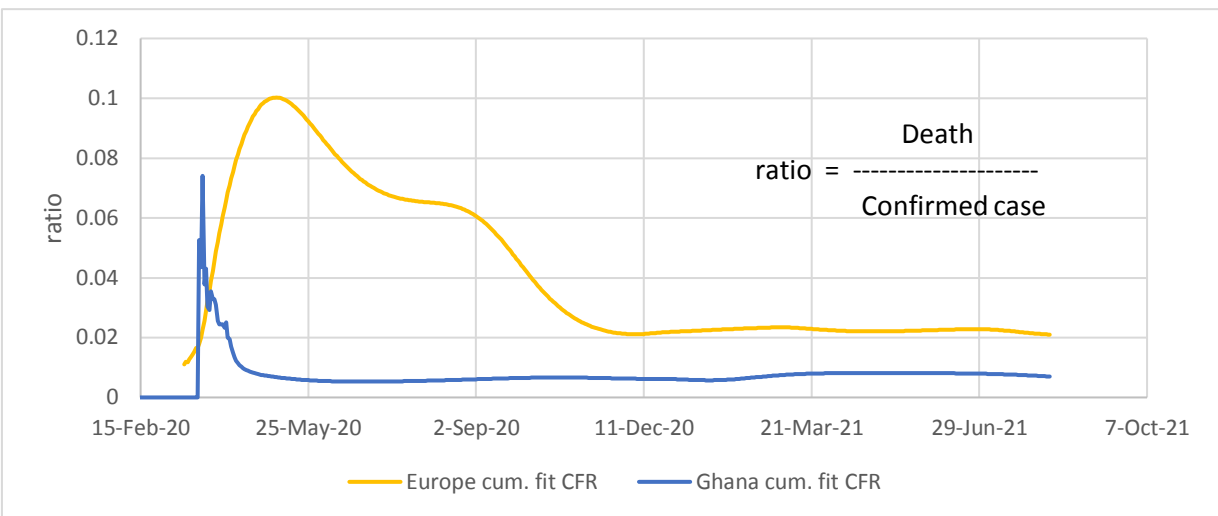
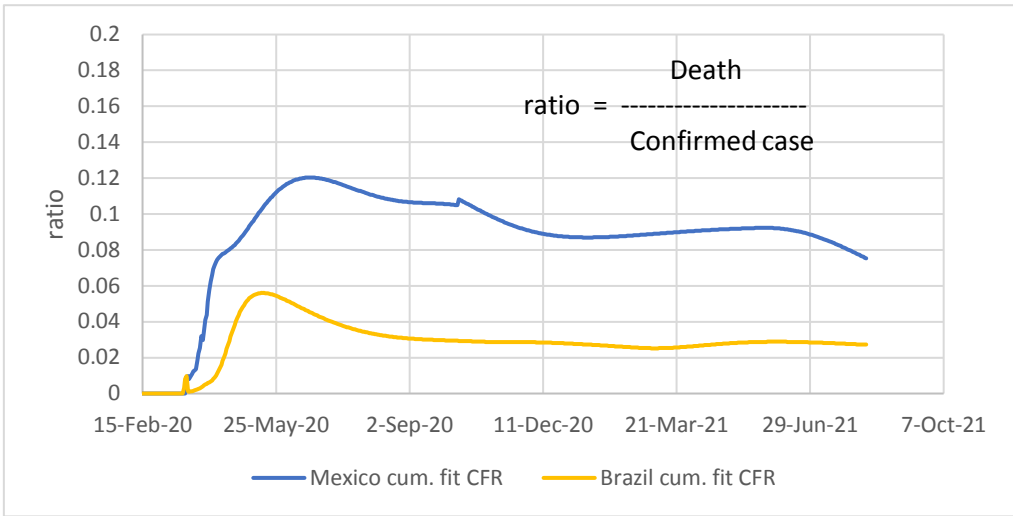
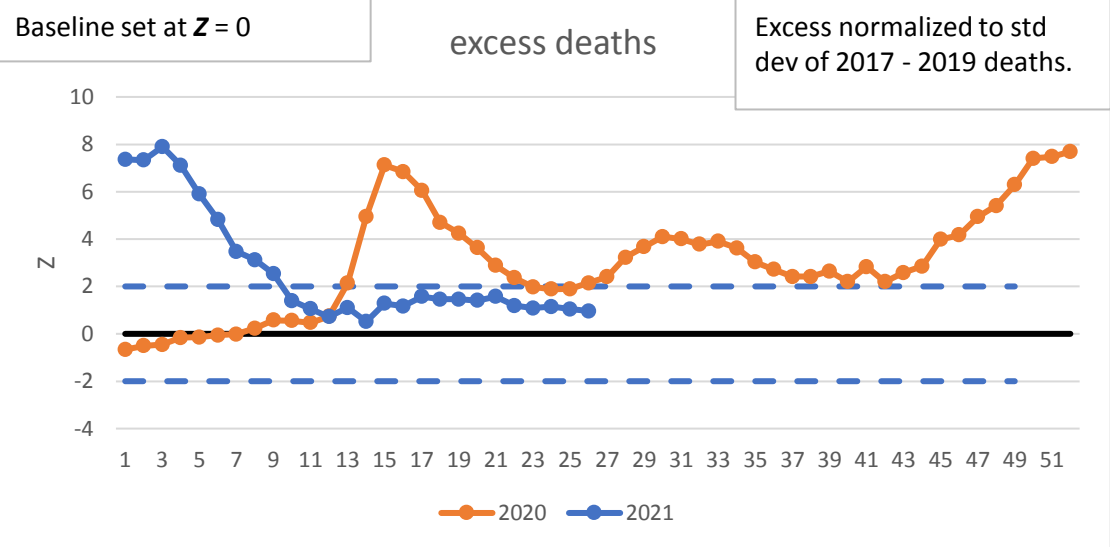


Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

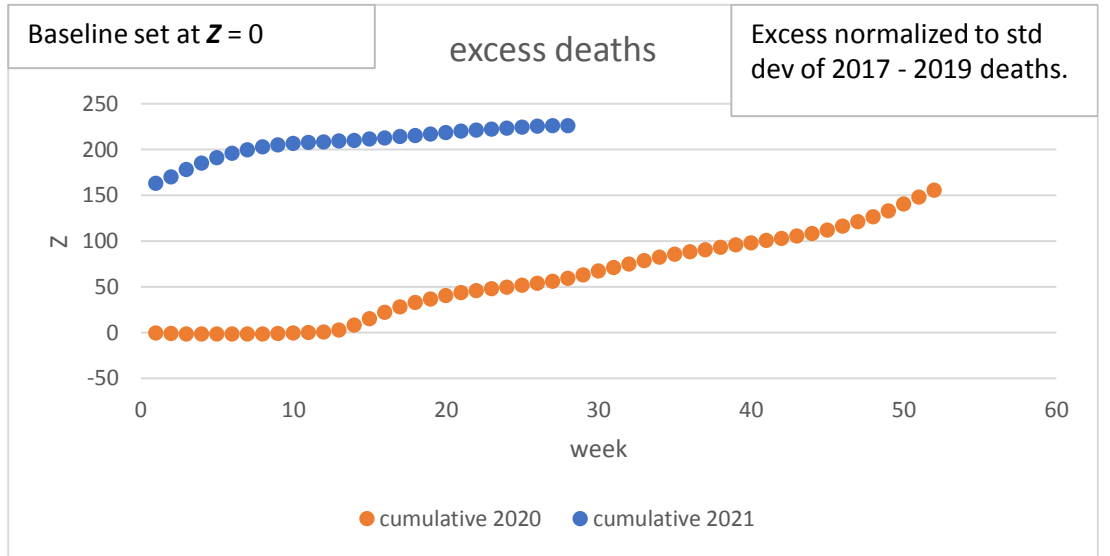


Excess deaths as a Z score:

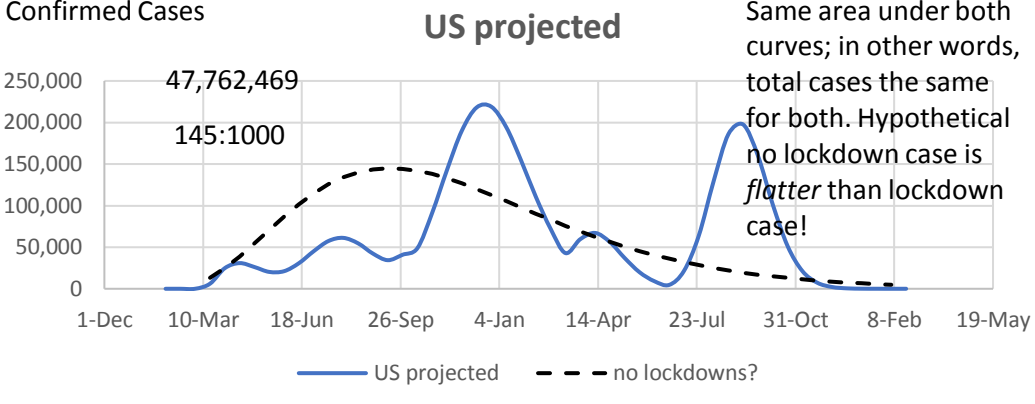


Above based on Z score of two year standard deviation from 2017-2019. What follows is cumulative plot of same.

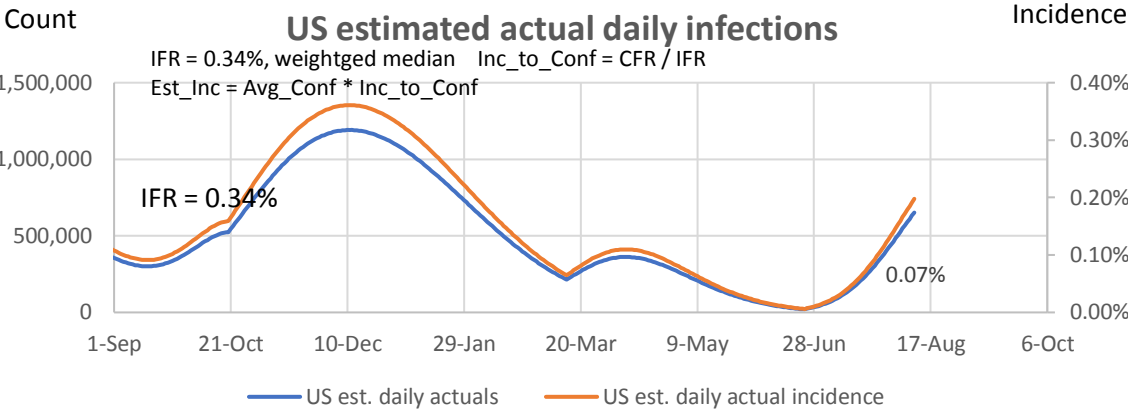
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely



Confirmed Cases



Count



False Positives Demonstration

Use 0.07% as estimated daily incidence

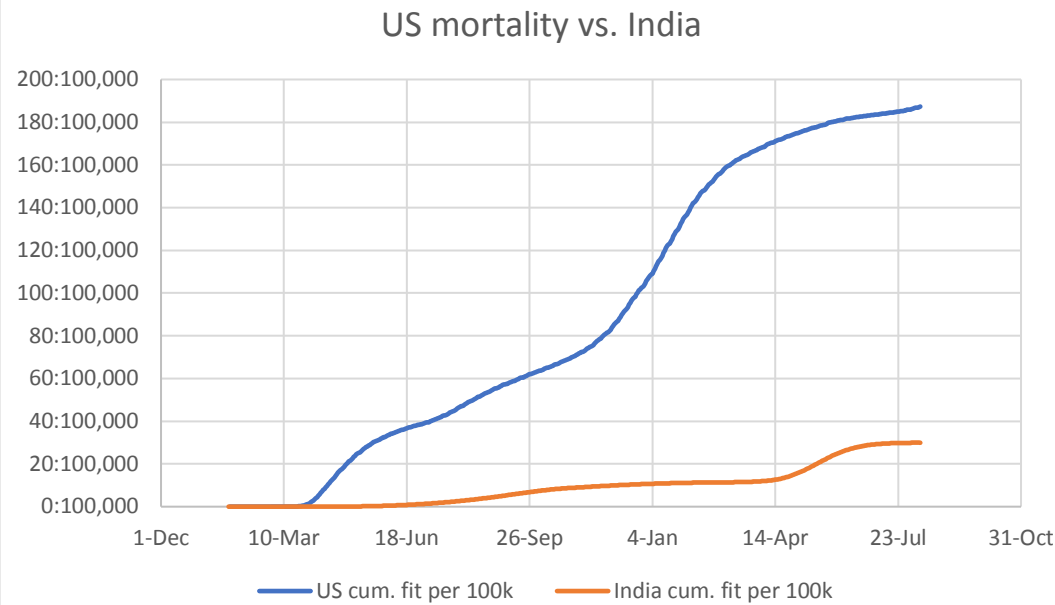
Prevalence estimated as avg. infected period of 2 weeks X incidence

	99% accuracy of test		
	Positive	Negative	
test pos	0.970%	0.990%	1.96%
test neg	0.010%	98.030%	98.04%
	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%	50.5%
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.



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/xkxf-xrst/data>

USA Excess Deaths to date (from CDC data):

29 weeks	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	472:100,000	472:100,000	-
2021	557:100,000	485:100,000	-
Diff.	86:100,000	13:100,000	73:100,000

3 yr average
859:100,000

15% of All-Cause excess deaths are non-CV19

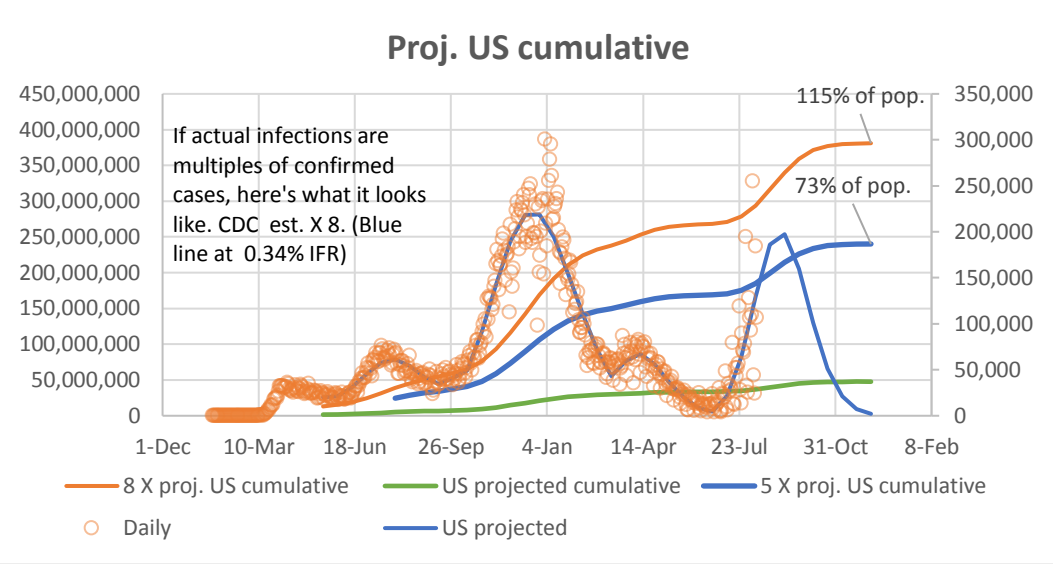
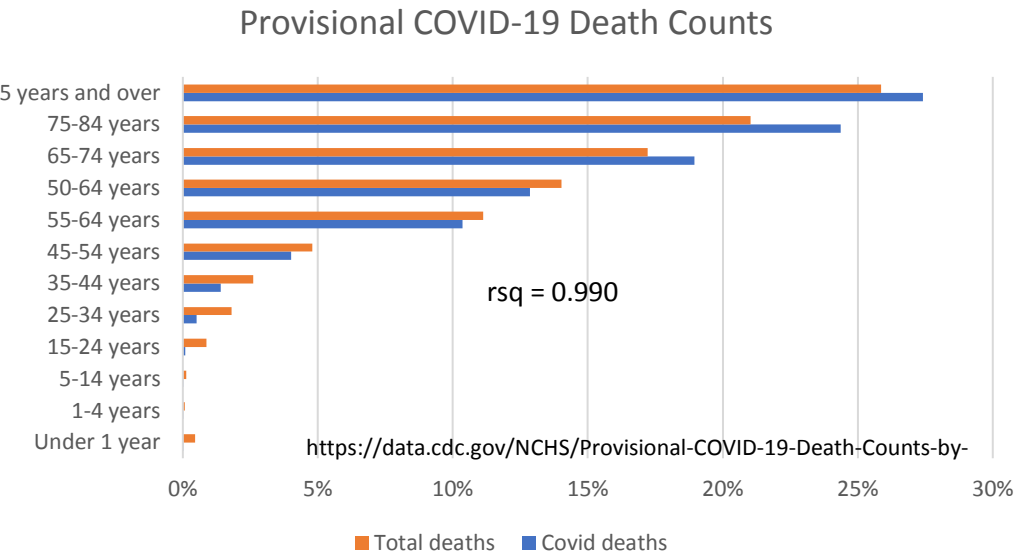
<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data>

$K = 0.318$      $R_o :$      $R :$

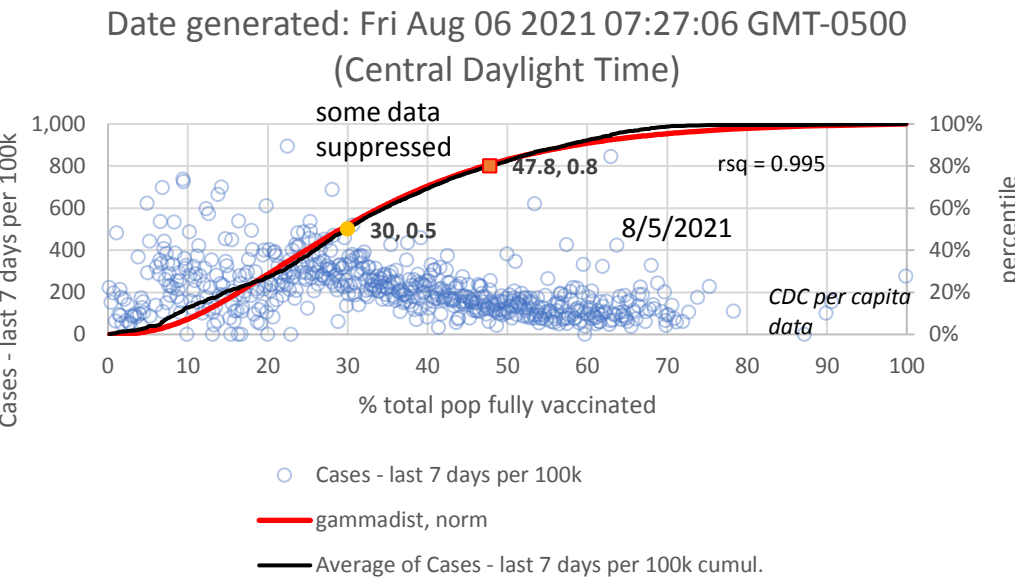
$\gamma = 0.171$      $R_o = \exp(K/\gamma) = 6.42$     84%     $\leq$  Herd immunity

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

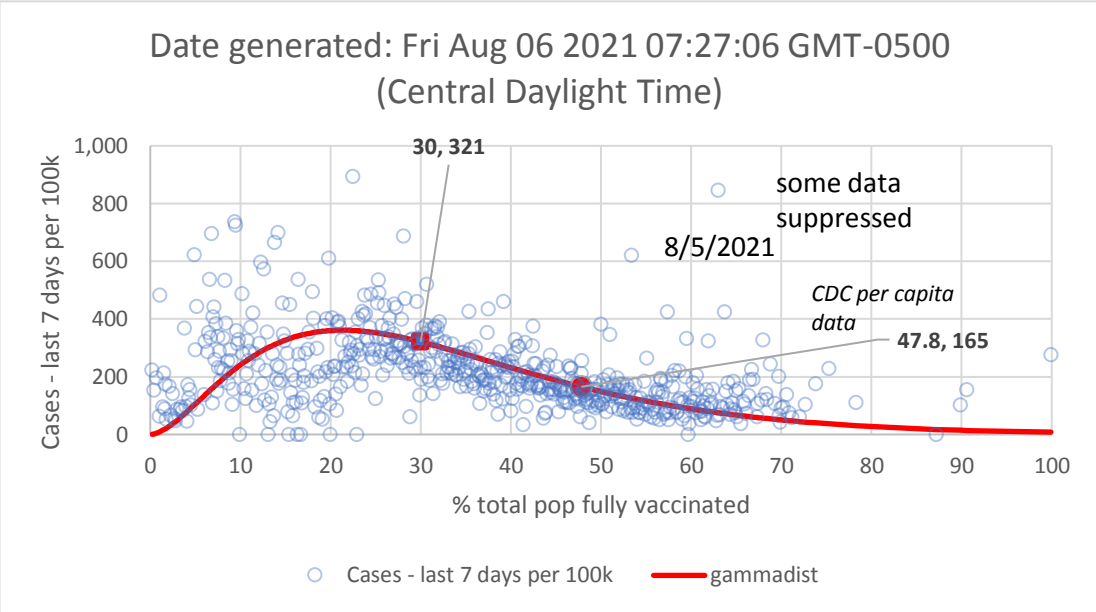
R is recovered variable.



CDC 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  
curve fit constrained by 100% vaccinated at 100 percentile

