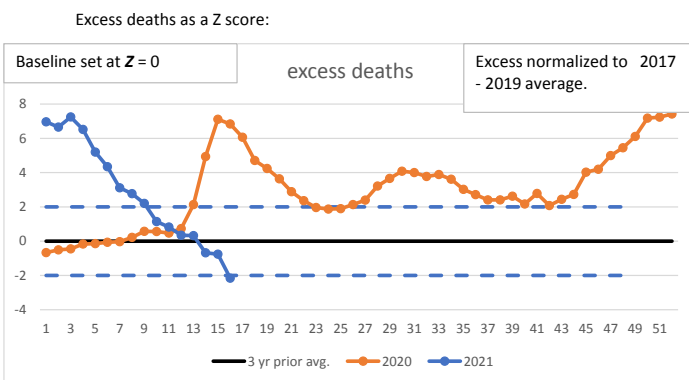
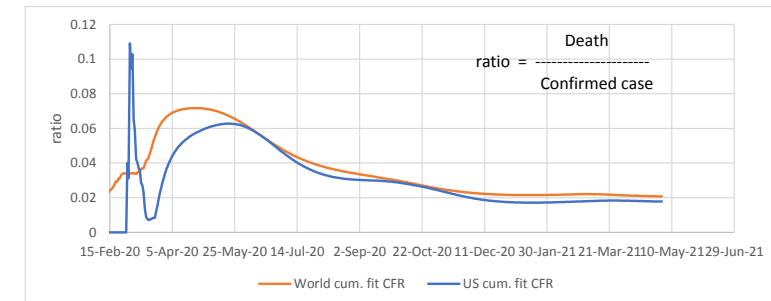
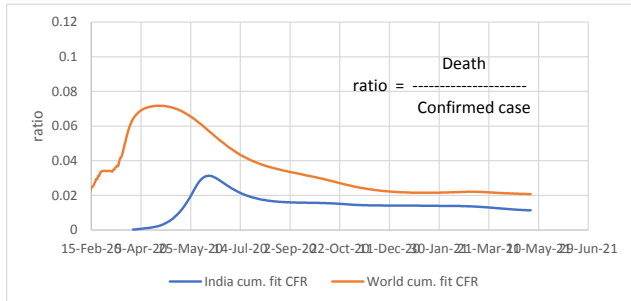
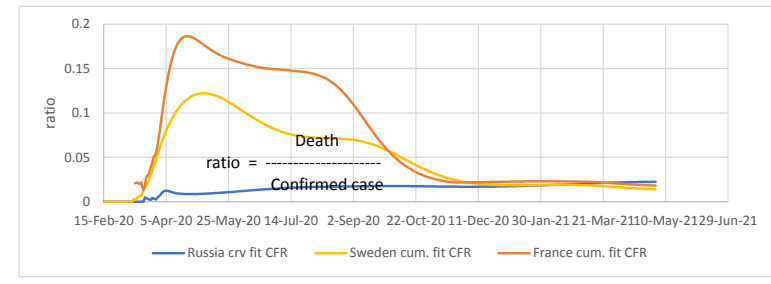
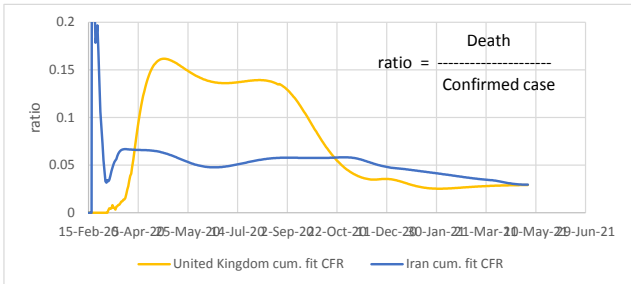
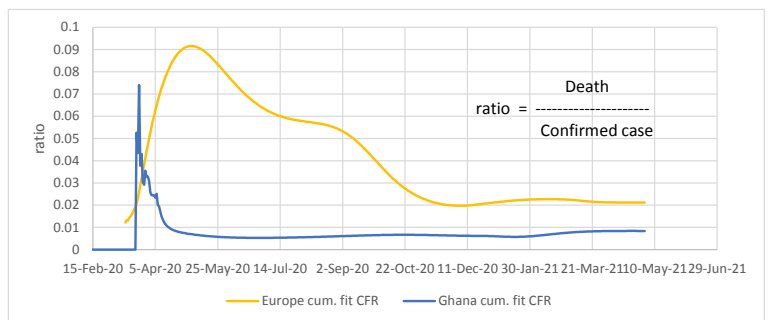
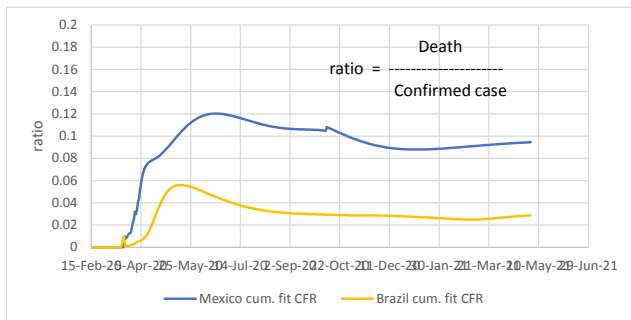
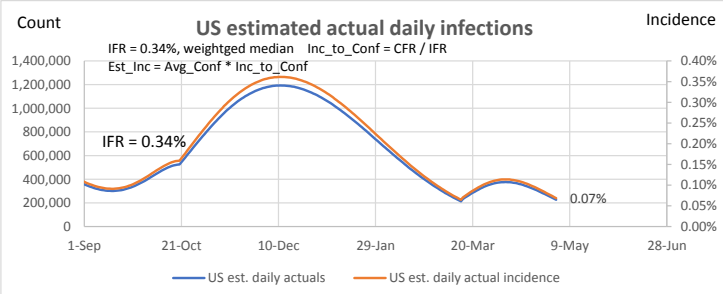
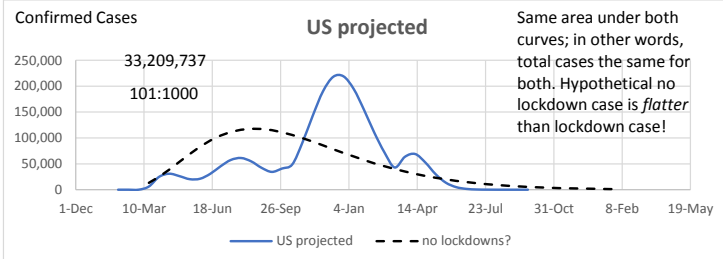
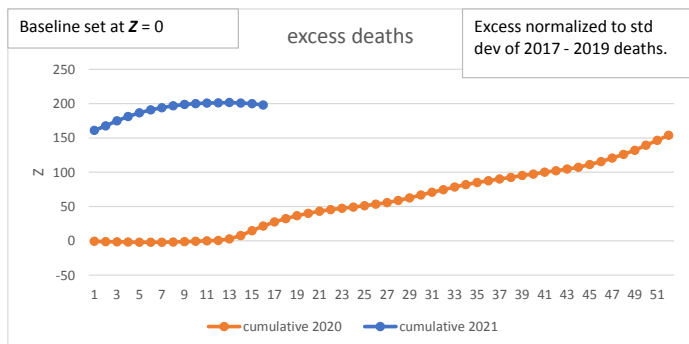


## Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)



Above based on Z score of three year standard deviation from 2017-2019. What follows is cumulative plot of same. Although it's not likely, if the blue line gets back to zero within 2021, it would mean the excess people who died in 2020, probably would have died in 2021 anyway. This is very unlikely.



### False Positives Demonstration

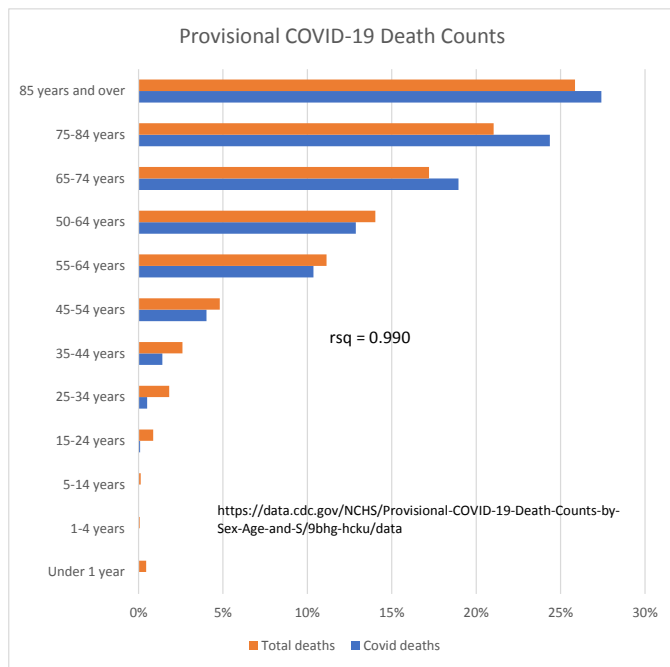
Use 0.07% from US est. incidence above as estimated daily incidence  
Prevalence estimated as avg. infected period of 2 weeks X incidence

	99% accuracy of test		0.07% X 14 = 0.980%
	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 (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	1015:100,000	904:100,000	-
Diff.	156:100,000	45:100,000	111:100,000

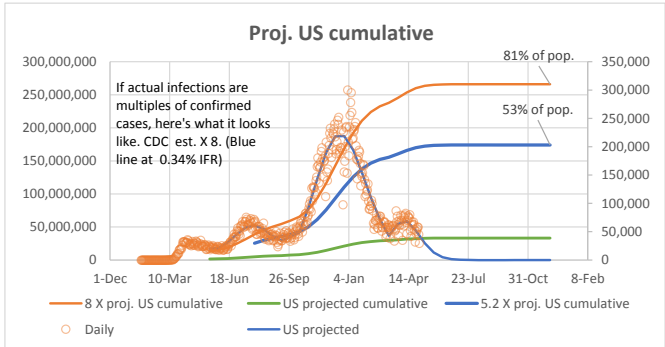
3 yr average
859:100,000

29% of All-Cause excess deaths are non-CV19

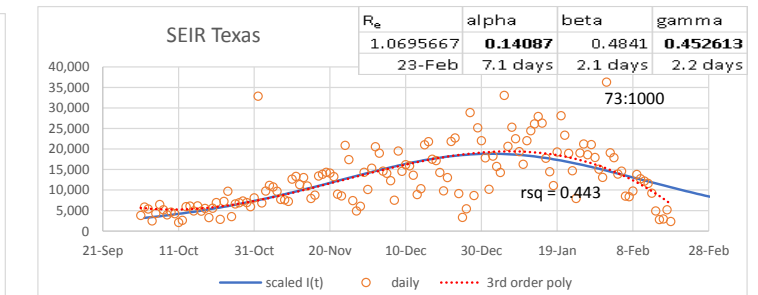
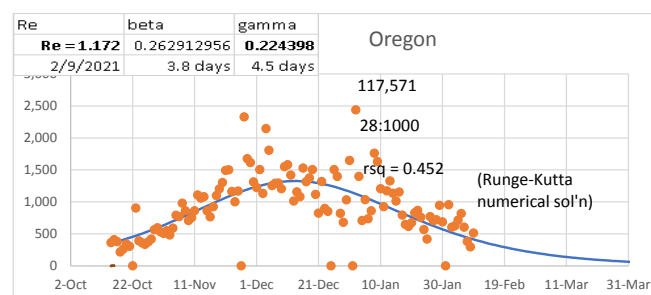
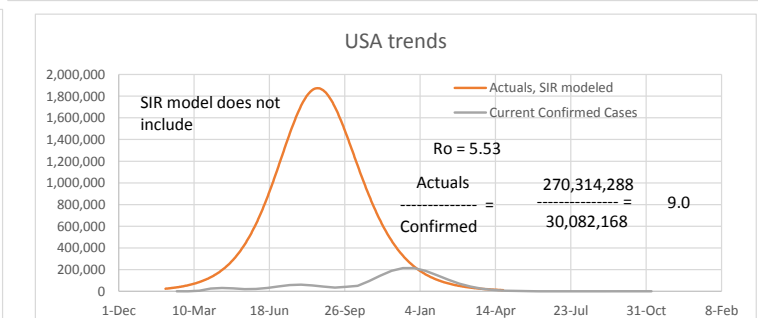
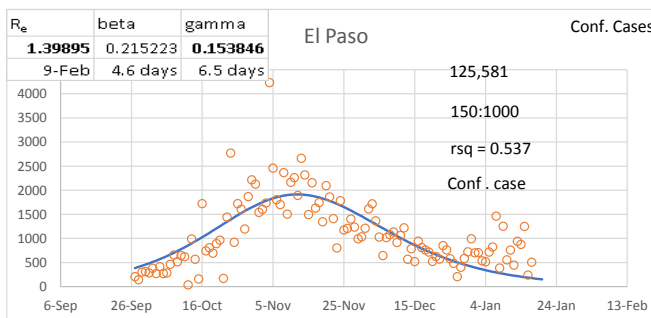
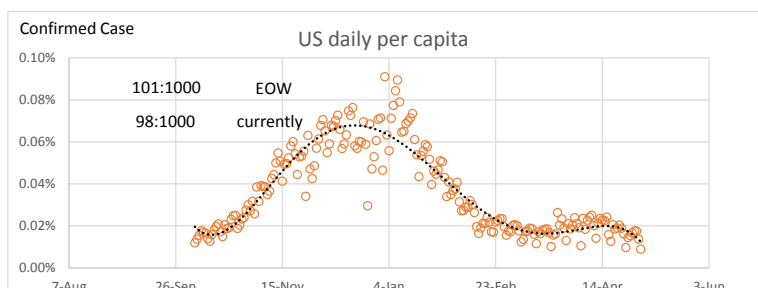
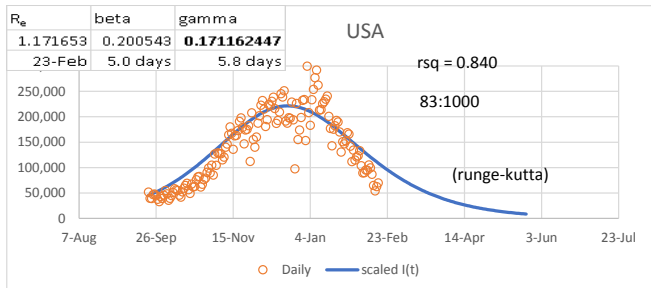
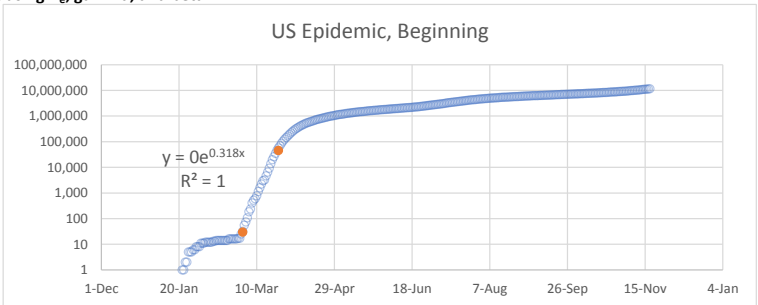
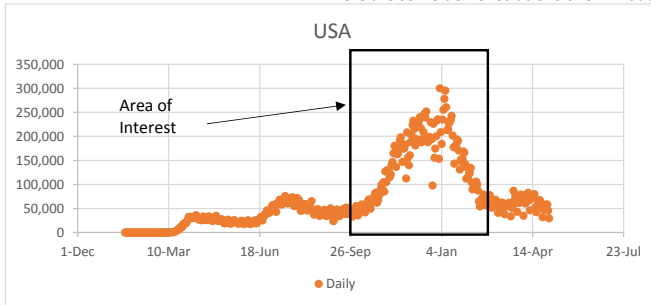
<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data>

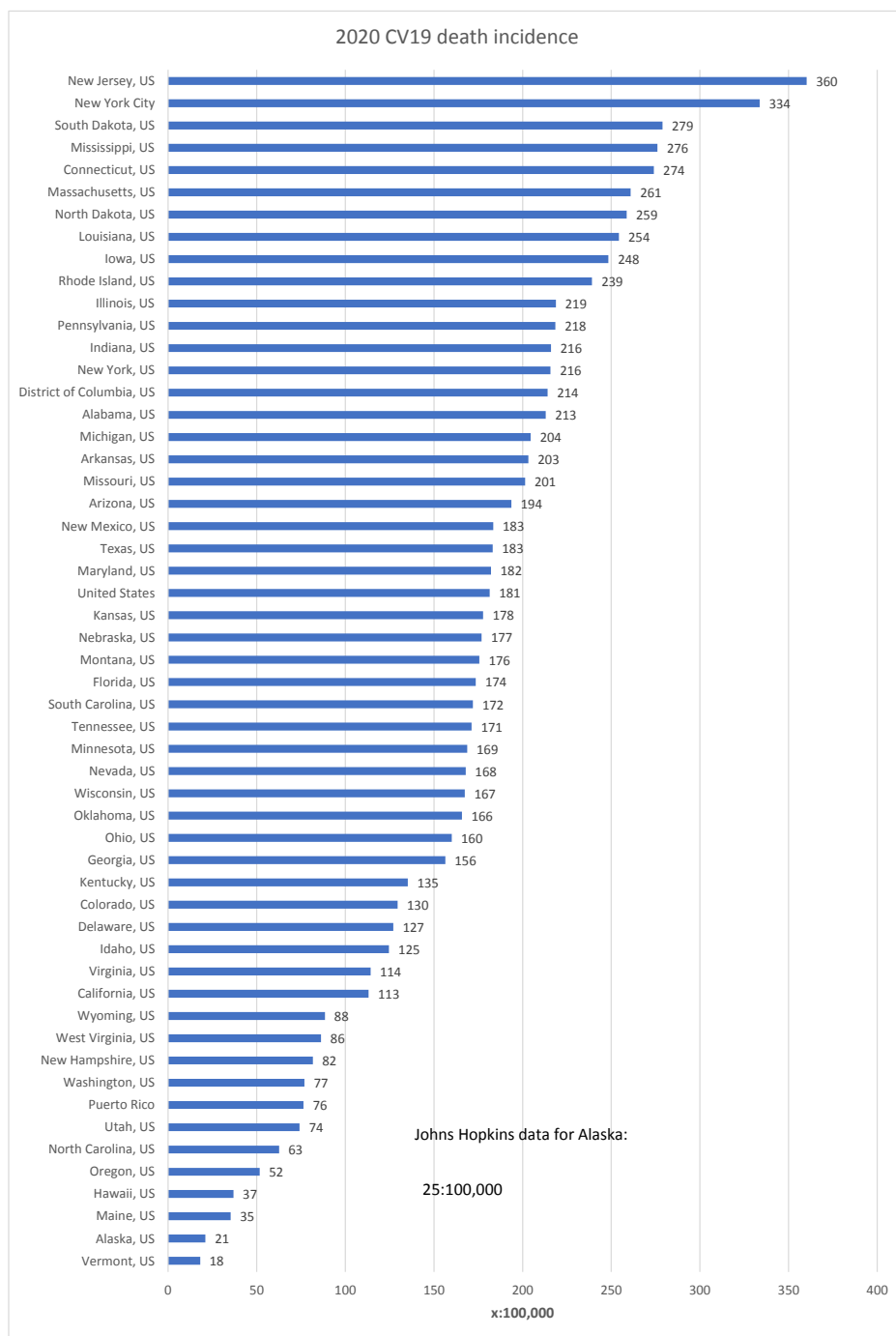
$$K = 0.318 \quad R_o : \quad R : \\ \text{gamma} = 0.171 \quad R_o = \exp(K/\text{gamma}) = 6.42 \quad 84\% \\ \text{gamma} = 0.286 \quad R > 1 - 1/R_o = 3.04 \quad 67\% \quad \leq \text{Herd immunity}$$

R is recovered variable.



Here are some demonstrations of SIR model, using  $R_o$ , gamma, and beta





<https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-ite6/data>