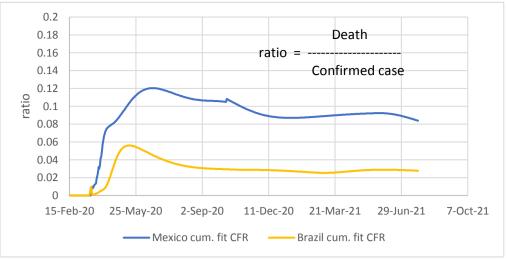
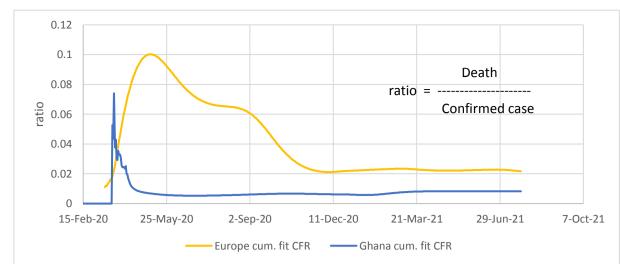
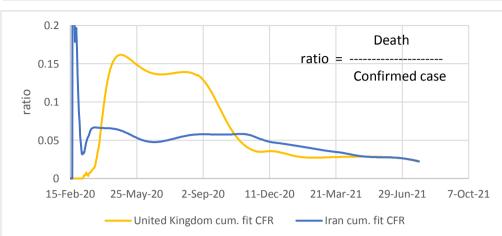
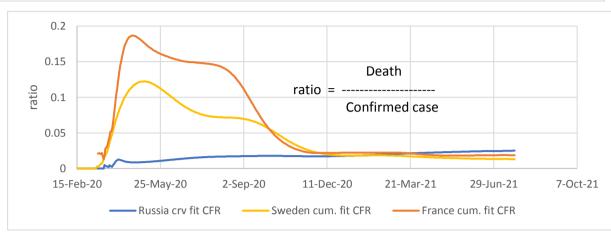
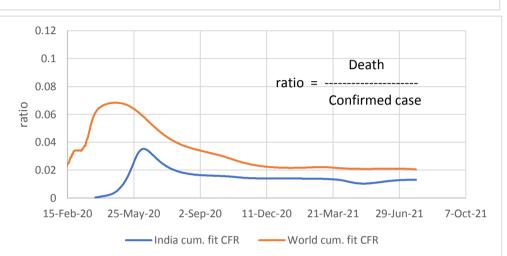
### Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

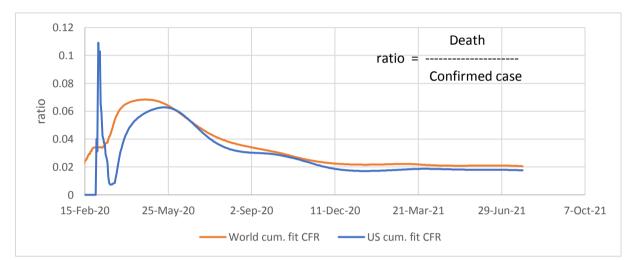




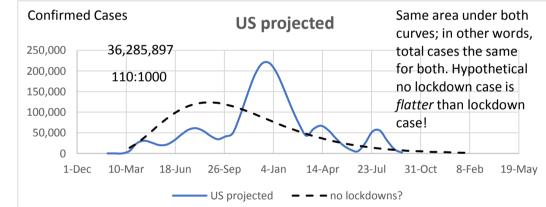


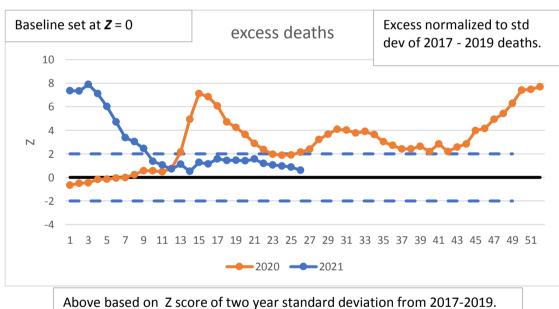


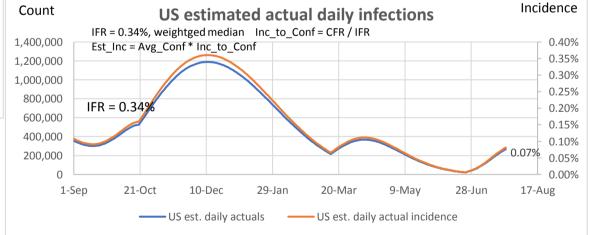




## Excess deaths as a Z score:







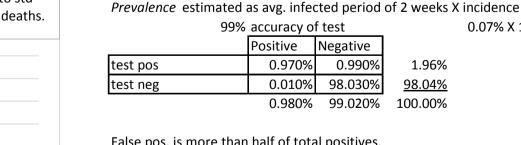
What follows is cumulative plot of same. Data in recent weeks are incomplete. Only 60% of death records are

varies by jurisdiction. Data are not weighted and counts are likely

submitted to NCHS within 10 days of the date of death, and completeness

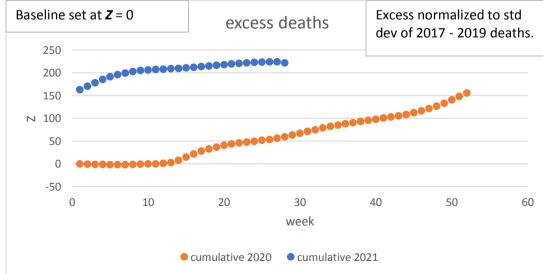
## **False Positives Demonstration**

Use 0.07% as estimated daily incidence



0.07% X 14 = 0.980% 1.96% 98.04%

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.

0.990%

100.00%

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

#### US mortality vs. India 200:100,000 180:100,000 160:100,000 140:100,000 120:100,000 100:100,000 80:100,000 60:100,000 40:100,000 20:100,000 0:100,000 10-Mar 18-Jun 26-Sep 4-Jan 14-Apr 23-Jul 31-Oct 1-Dec —— 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

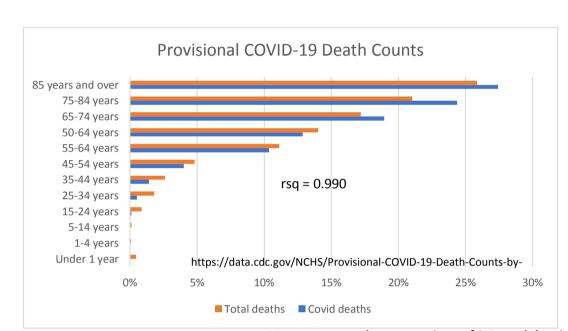
#### **USA Excess Deaths to date (from CDC data):**

	28 weeks	All Cause	All Cause, excl. CV19		CV19
3	yr average before 2020	455:10	00,000	455:100,000	-
	2021	539:10	00,000	467:100,000	-
	Diff.	84:10	0,000	12:100,000	72:100,000

3 yr average 859:100,000

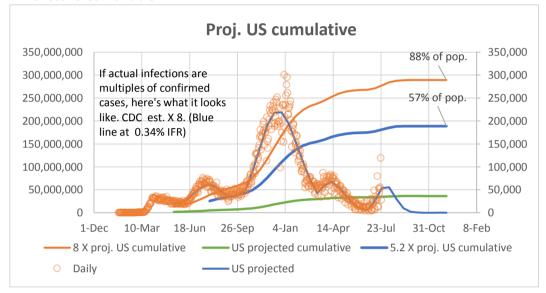
14% of All-Cause excess deaths are non-CV19

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

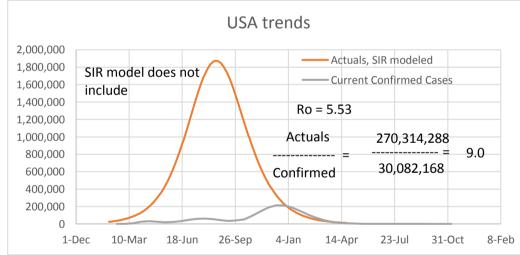


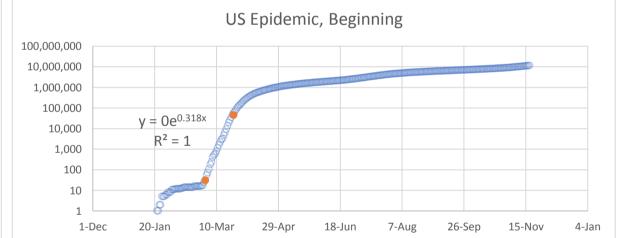
# K = 0.318 $R_o$ : R: gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ 84% gamma = 0.286 $R > 1 - 1/R_o = 3.04$ 67%

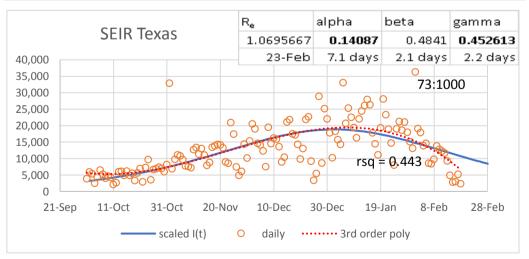
R is recovered variable.

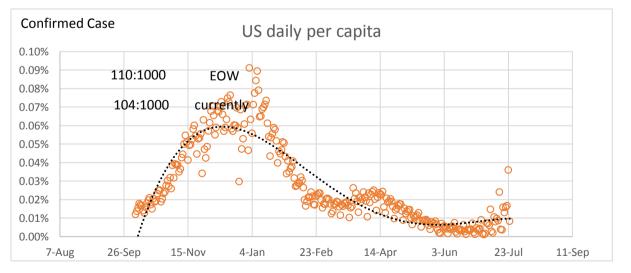


Here are some demonstrations of SIR model, using R<sub>e</sub>, gamma, and beta

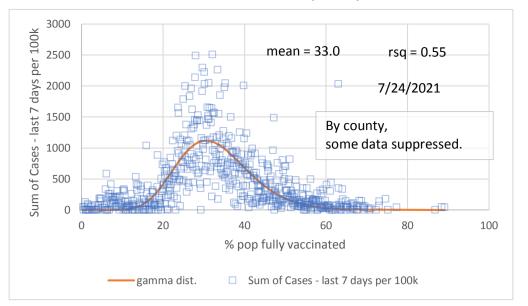


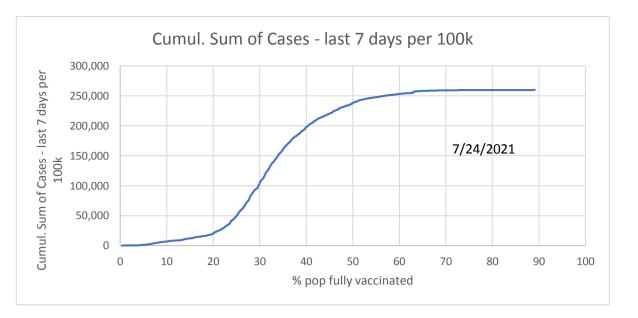




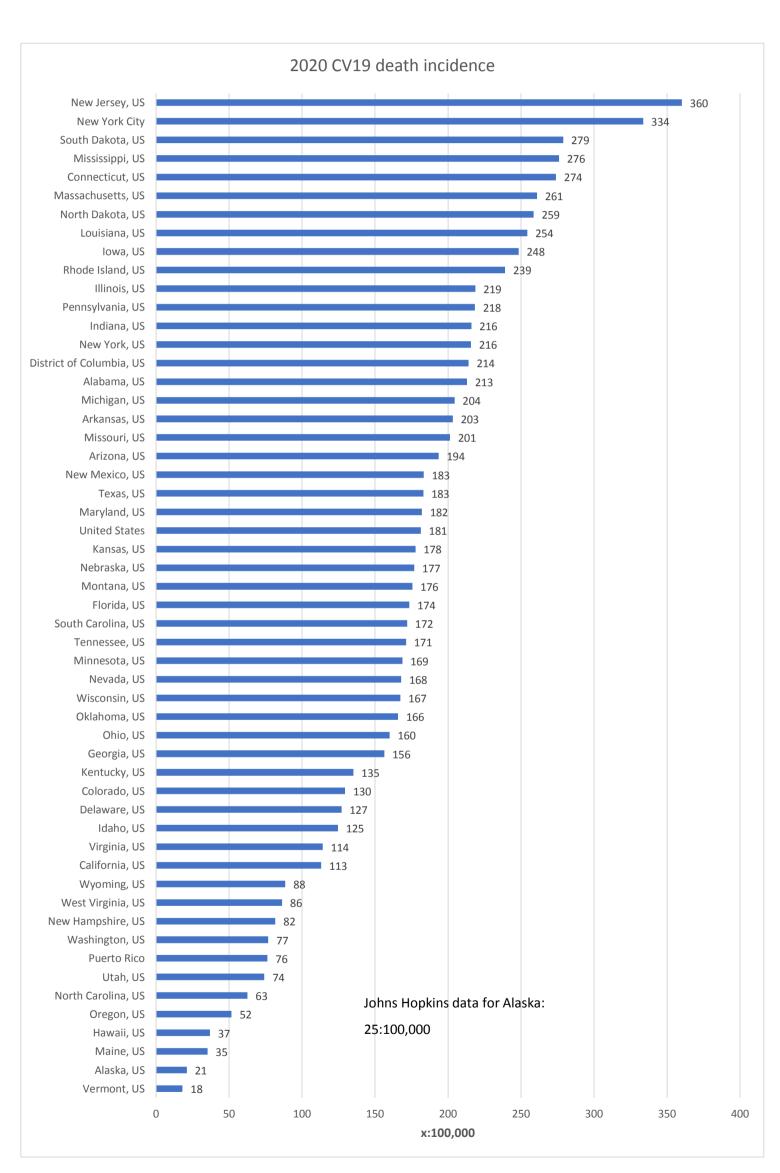


#### CDC data on week indicated new cases by % fully vaccinated.





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



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