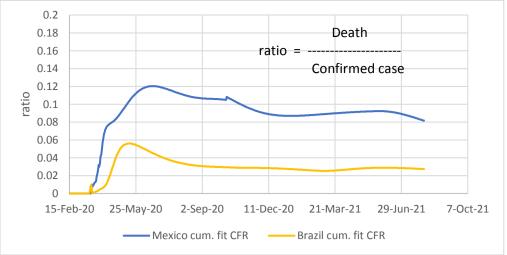
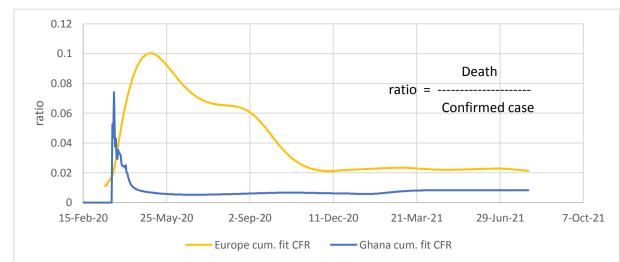
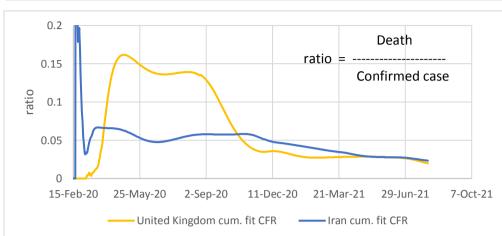
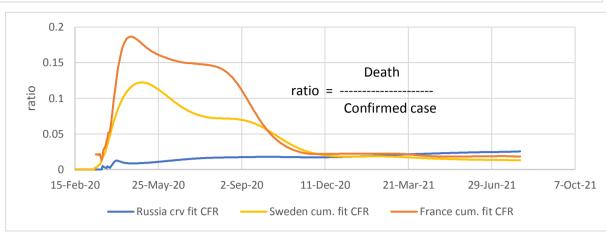
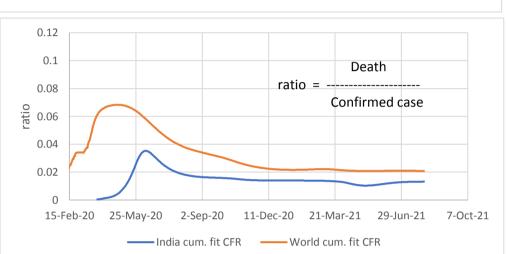
## Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

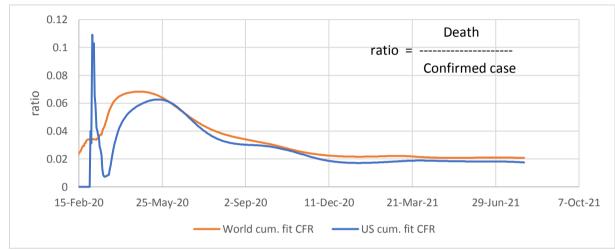




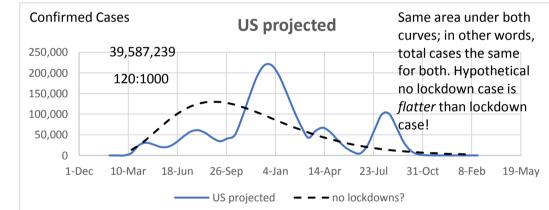


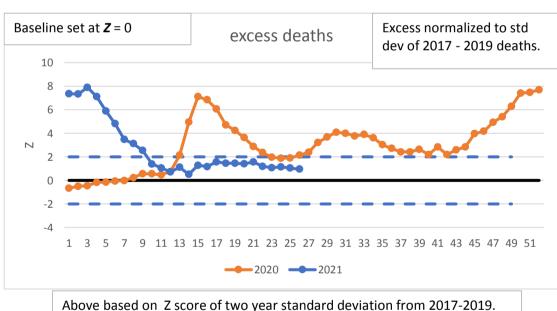


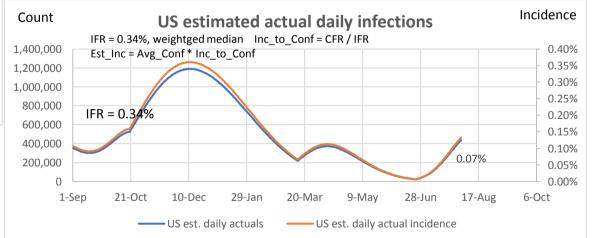




## Excess deaths as a Z score:







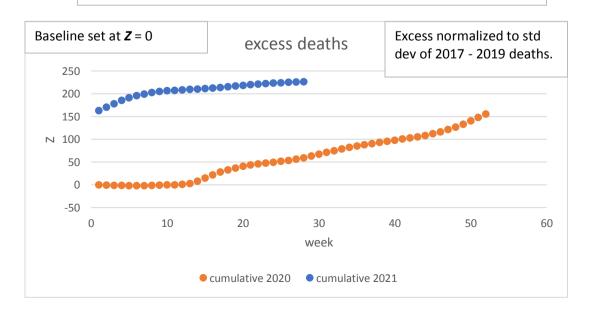
 $0.07\% \times 14 = 0.980\%$ 

What follows is cumulative plot of same.

## <u>False Positives Demonstration</u>

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

Use 0.07% as estimated daily incidence *Prevalence* estimated as avg. infected period of 2 weeks X incidence



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.

 $\underline{https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data}$ 

#### 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

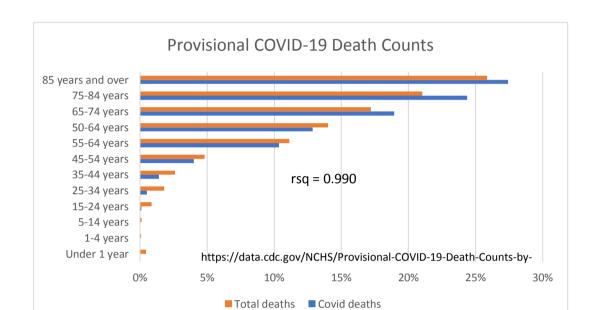
#### **USA Excess Deaths to date (from CDC data):**

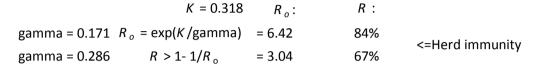
	29 weeks	All Cause	All C	ause, excl. CV19	CV19
3	yr average before 2020	472:10	00,000	472:100,000	-
	2021	557:10	00,000	485:100,000	-
	Diff.	86:10	0,000	13:100,000	73:100,000

3 yr average	
859:100,000	

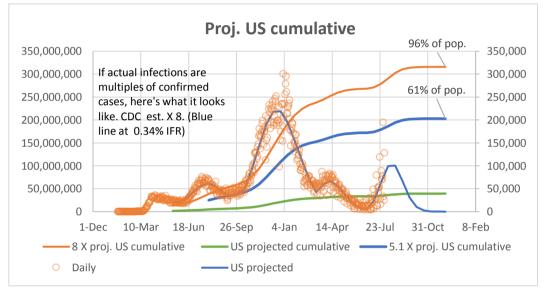
15% of All-Cause excess deaths are non-CV19

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

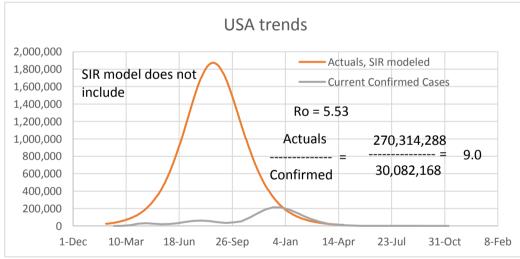


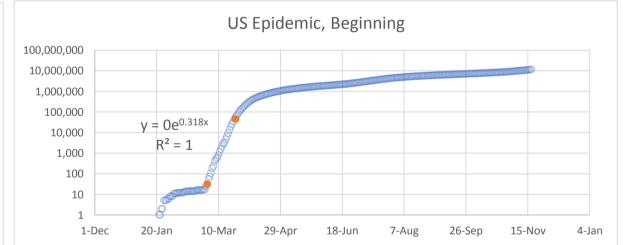


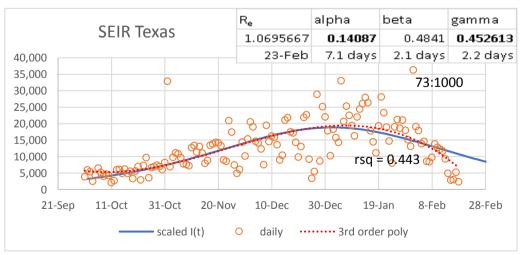
R is recovered variable.

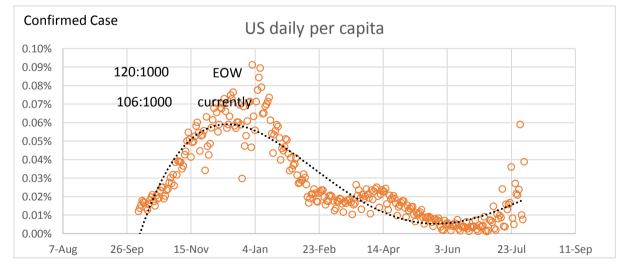


Here are some demonstrations of SIR model, using R<sub>e</sub>, gamma, and beta







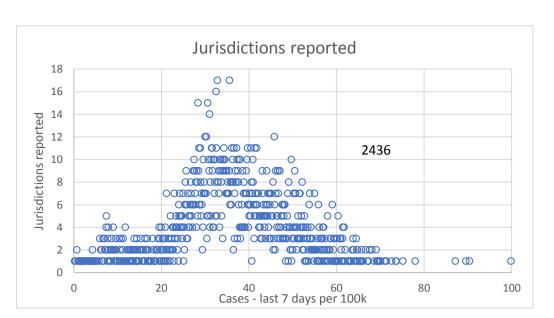


# CDC data on week indicated new cases by % fully vaccinated.

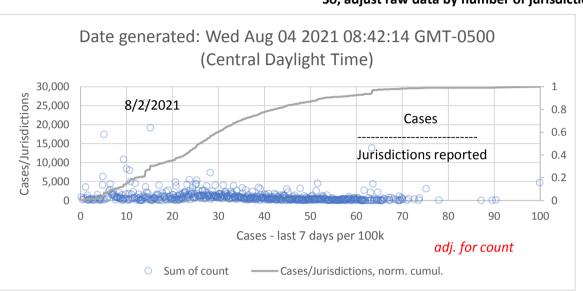
(data derived from per capita, multiplied by jurisdiction population)

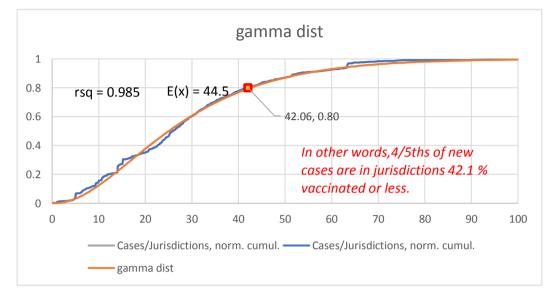
#### Date generated: Wed Aug 04 2021 08:42:14 GMT-0500 (Central Daylight Time) 70,000 Cases - last 7 days per 100k 000.000 000.0 avg vaccination o 0.8 rate (weighted) = 8/2/2021 0.6 43.5% some data 0.4 suppressed 0.2 10 20 90 100 derived from CDC per capita data % total pop fully vaccinated ——Sum of Cases cumul.

#### However, Jurisdictions not uniformly distributed:



#### So, adjust raw data by number of jurisdictions in each count:





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

