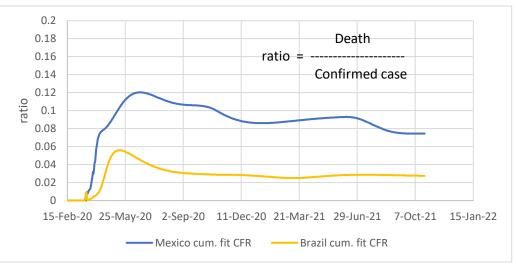
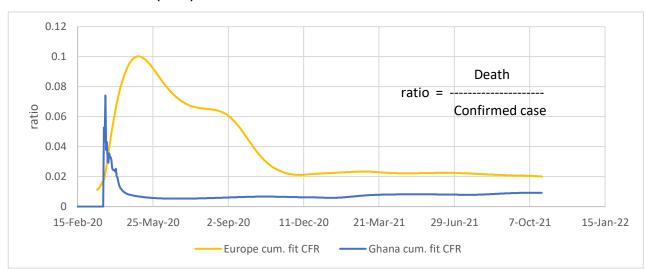
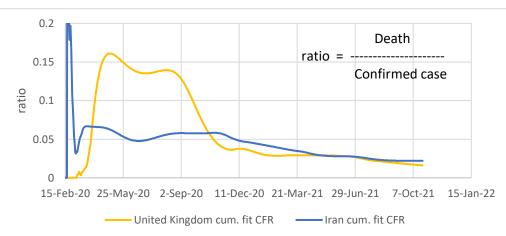
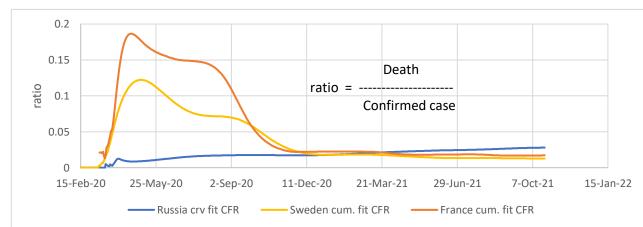
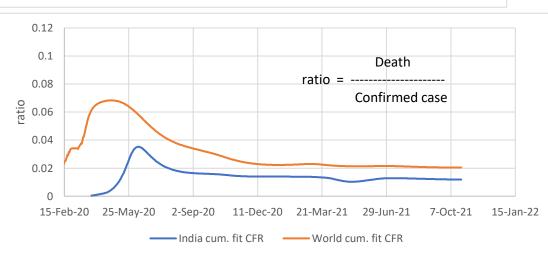
# Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

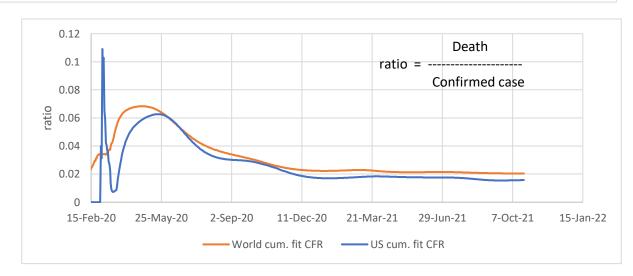






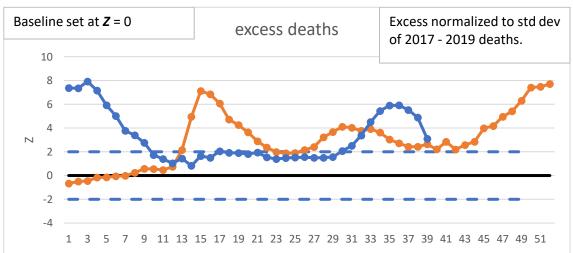


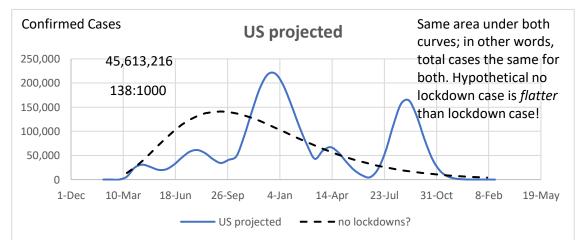




## Excess deaths as a Z score:

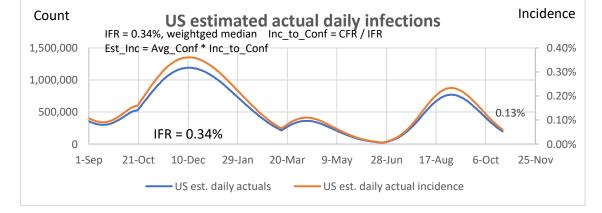
Baseline set at Z = 0





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

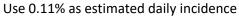
**-**2020 **---**2021



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

## **False Positives Demonstration**

Total



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

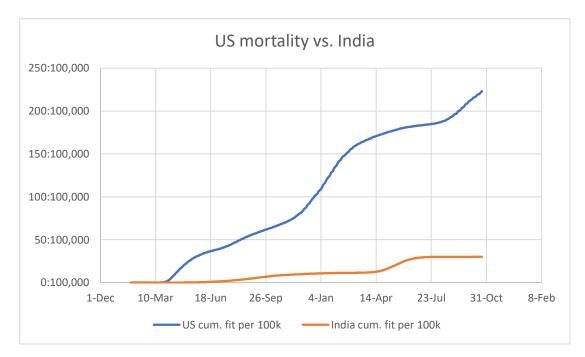
Excess normalized to std excess deaths dev of 2017 - 2019 deaths. 300 250 200 150 100 50 0 -50 30 40 50 0 10 week cumulative 2020 cumulative 2021 zeroed cumulative 2021

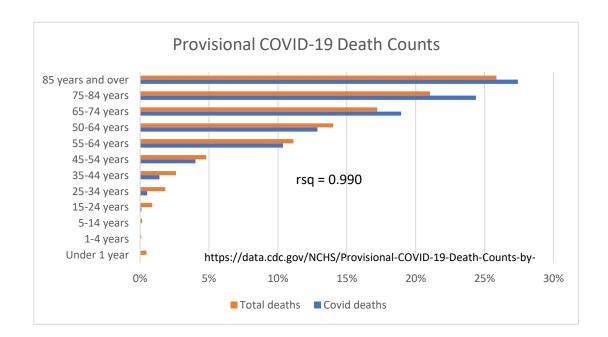
| 95%      | 95% accuracy of test |          |         |  |
|----------|----------------------|----------|---------|--|
|          | Positive             | Negative |         |  |
| test pos | 1.463%               | 4.923%   | 6.39%   |  |
| test neg | 0.077%               | 93.537%  | 93.61%  |  |
|          | 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% <u>77.1%</u>

0.11% X 14 = 1.540% 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%

100.00%





#### 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  |
| Diff |              |

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

#### **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 |

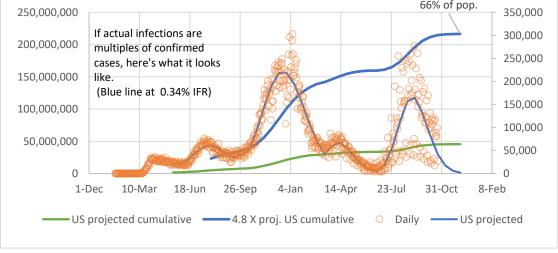
3 yr average 859:100,000

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

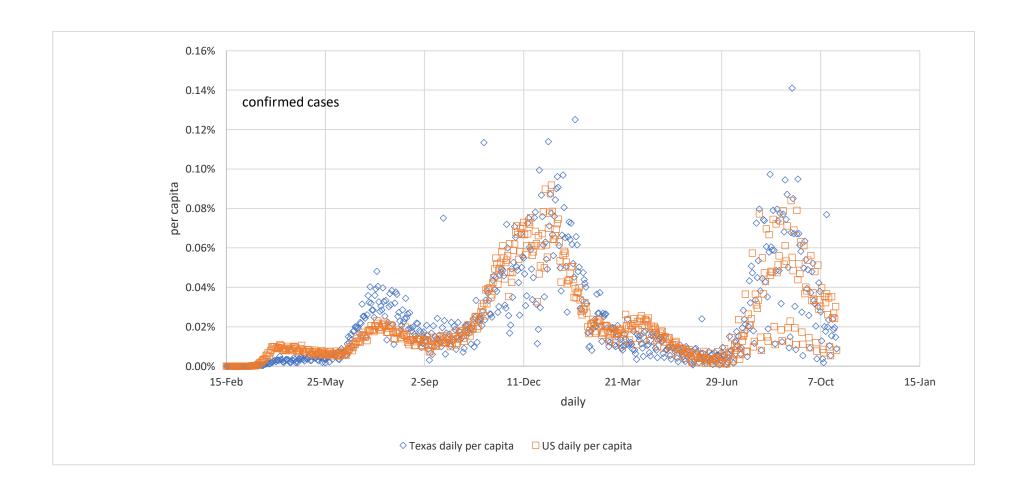
Diff.

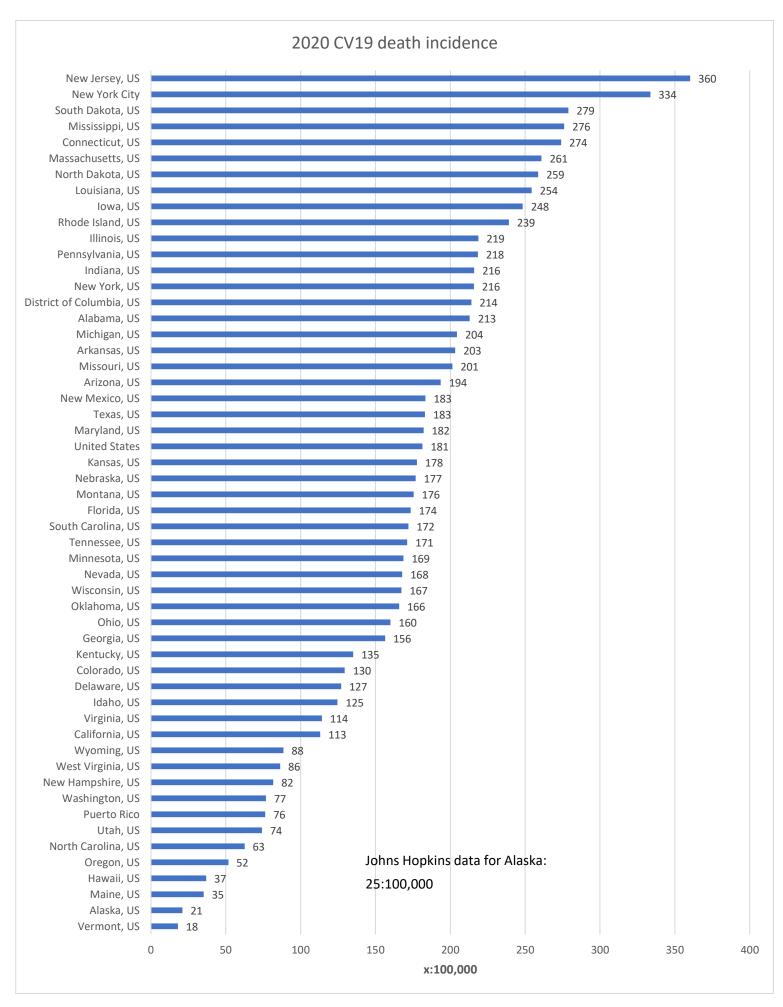
K = 0.318 $R_o$ : *R* : gamma = 0.171  $R_o = \exp(K/\text{gamma}) = 6.42$ 84% <=Herd immunity  $R > 1 - 1/R_{0}$ gamma = 0.286 = 3.04 67%

R is recovered variable. Proj. US cumulative 66% of pop. 250,000,000 350,000 If actual infections are 300,000 200,000,000 multiples of confirmed 250,000 cases, here's what it looks 150,000,000 200,000 (Blue line at 0.34% IFR)



US vs. Texas





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