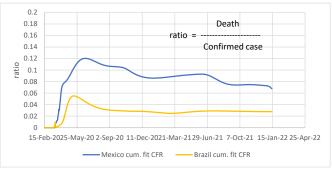
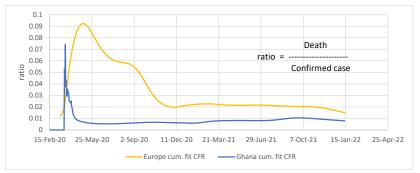
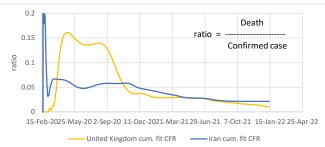
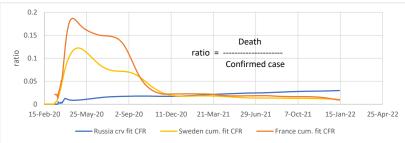
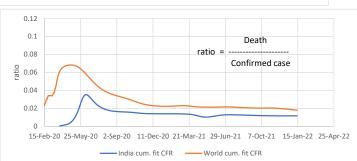
Experimental page: ratios of curve fit deaths to curve fit confirmed cases (CFR)

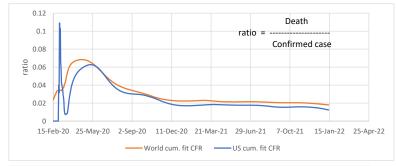




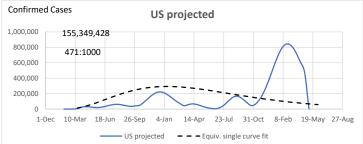


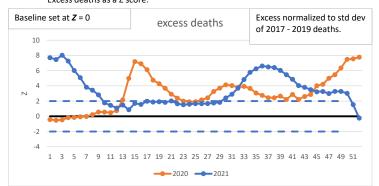


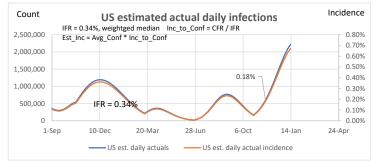




Excess deaths as a Z score:



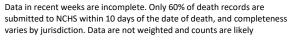




Above based on $\,$ Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

False Positives Demonstration

Use 0.15% as estimated daily incidence



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

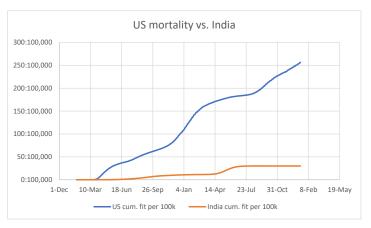
| Baseline set at Z = 0 | excess deaths | Excess normalized | |
|--|--------------------------|---|-------|
| 400 350 300 250 200 150 100 0 | | 000000000000000000000000000000000000000 | ••••• |
| -50 0 10 | 20 a week | 30 40 | 50 |
| • cumulative 20 | 20 • cumulative 2021 • z | reroed cumulative 2021 | |

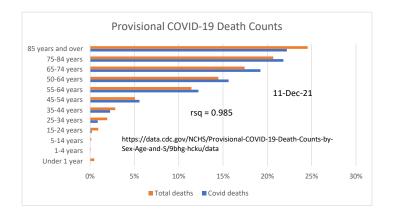
| | Positive | Negative | |
|----------|----------|----------|---------|
| test pos | 1.995% | 4.895% | 6.89% |
| test neg | 0.105% | 93.005% | 93.11% |
| | 2.100% | 97.900% | 100.00% |

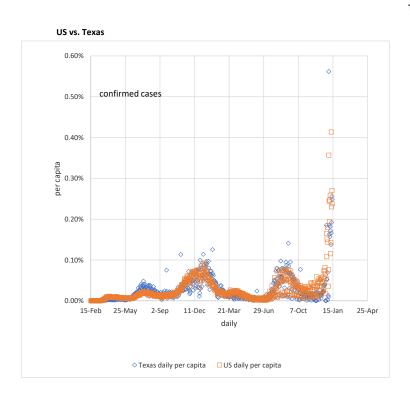
95% accuracy of test

| 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% | |

0.15% X 14 = 2.100%







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 (2021, from CDC data):

| | 52 weeks | All Cause | All Cause, excl. CV19 | CV19 |
|---|------------------------|--------------|-----------------------|-------------|
| 3 | yr average before 2020 | 859:100,000 | 859:100,000 | 1 |
| | 2021 | 1037:100,000 | 896:100,000 | - |
| | Diff. | 178:100,000 | 37:100,000 | 141:100,000 |

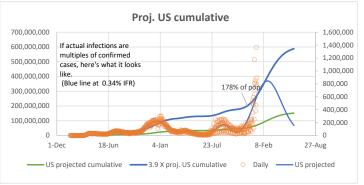
| 3 yr average | | |
|---|---|--|
| 859:100,000 | 21% of All-Cause excess deaths are non-CV19 | |
| https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data | | |

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.



Tri-Counties in Texas:





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