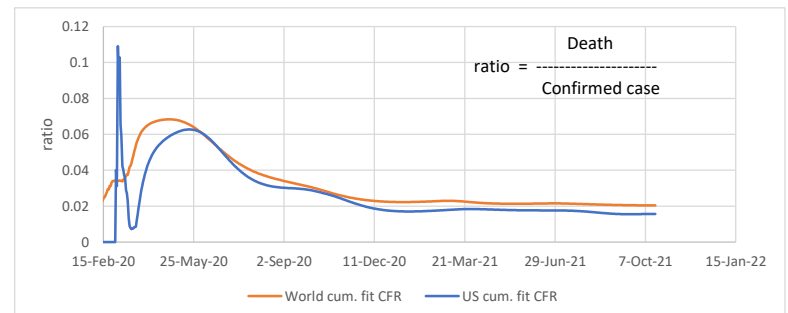
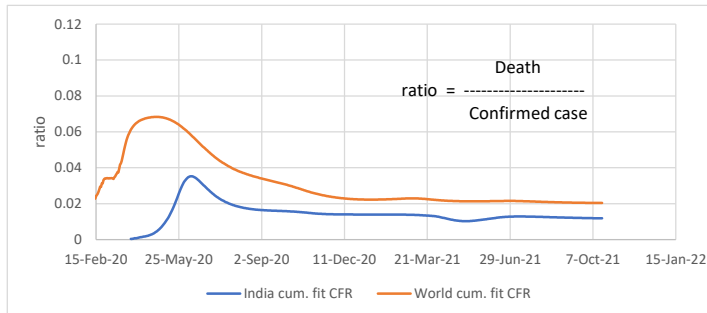
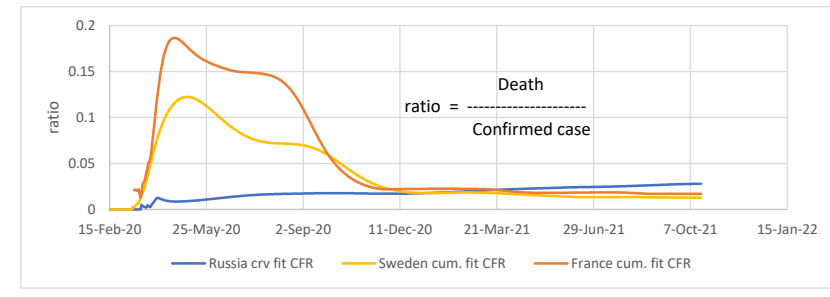
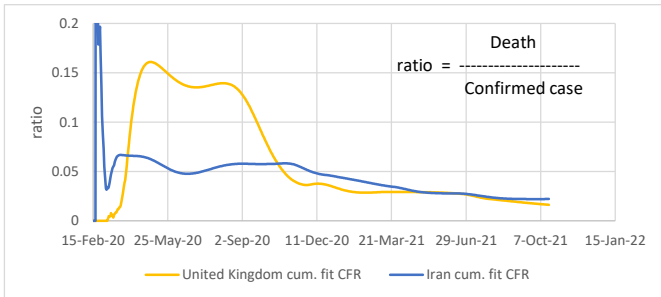
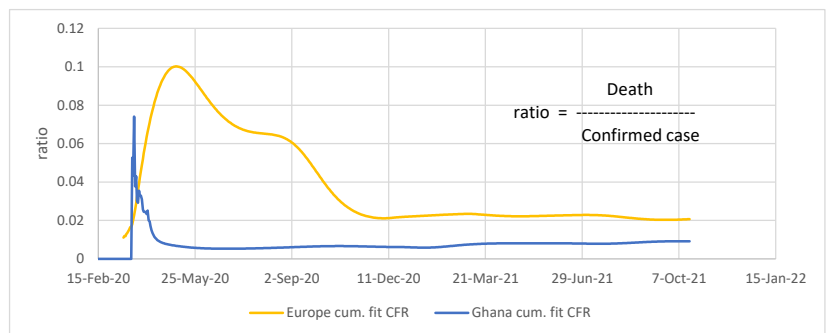
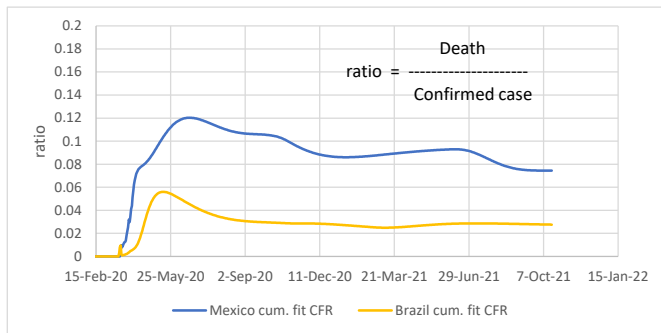
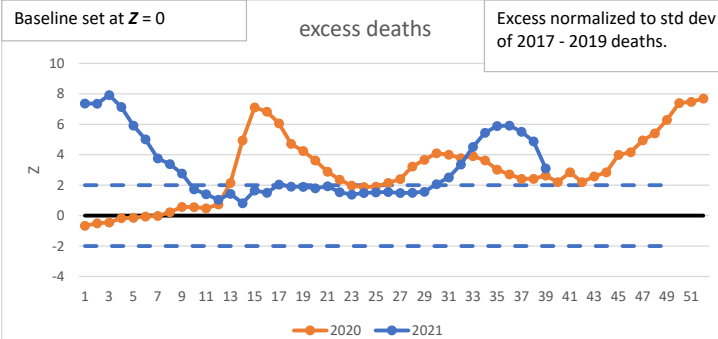


Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)

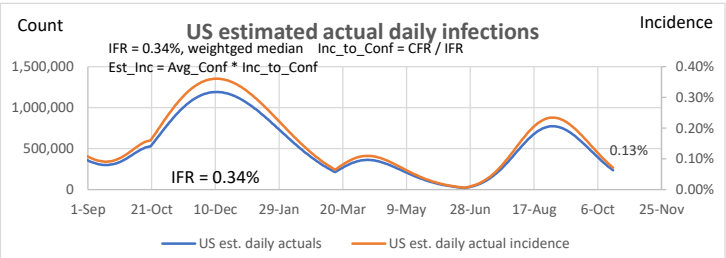
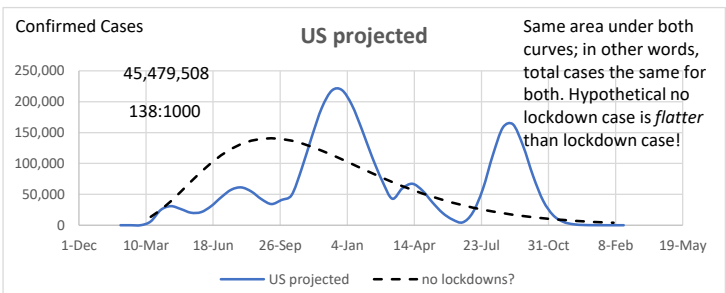
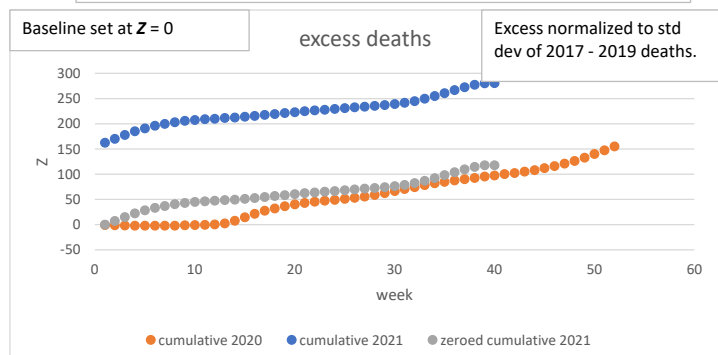


Excess deaths as a Z score:



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

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

Use 0.11% as estimated daily incidence

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

95% accuracy of test

| | Positive | Negative |
|----------|----------|----------|
| test pos | 1.463% | 4.923% |
| test neg | 0.077% | 93.537% |

1.540% 98.460%

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%

False pos. is more than half of total positives.

TRUE + 1.463%/6.39% 22.9%

FALSE + 4.923%/6.39% 77.1%

Total 100.00%

Example only; sensitivity and specificity not necessarily equal.

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

[Diff.](#)

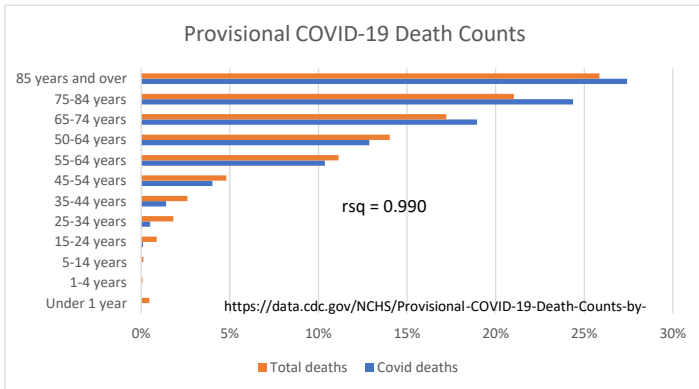
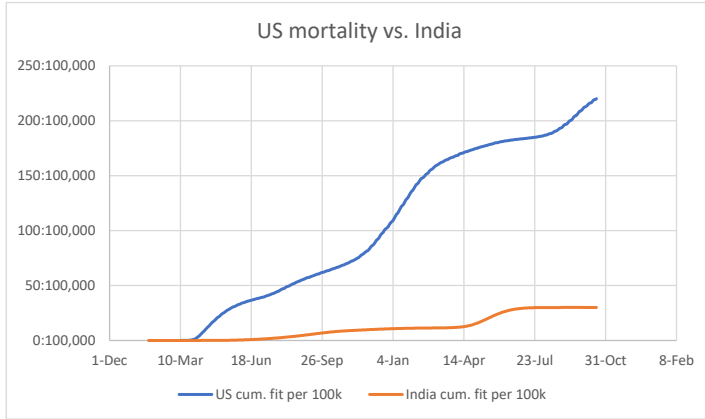
USA Excess Deaths to date (2021, from CDC data):

| 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

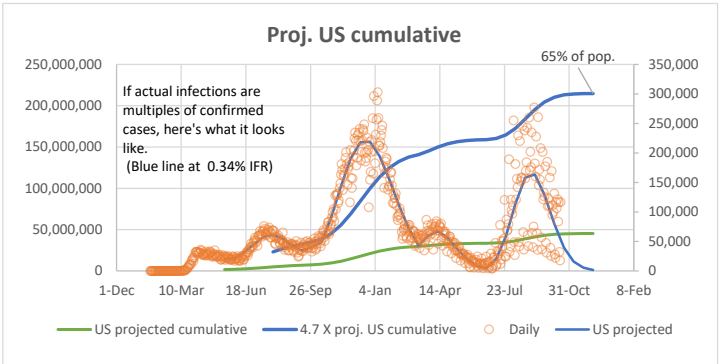
[Diff.](#)



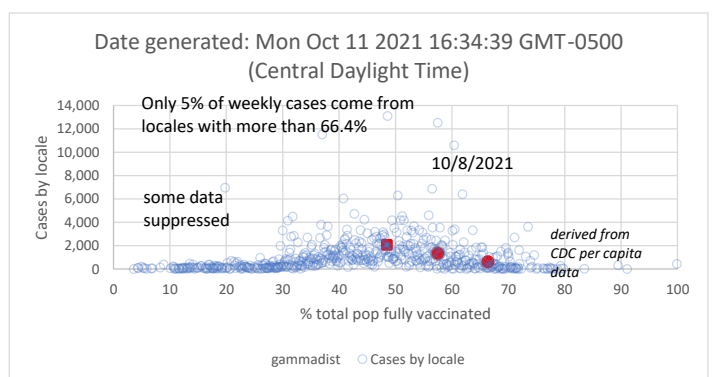
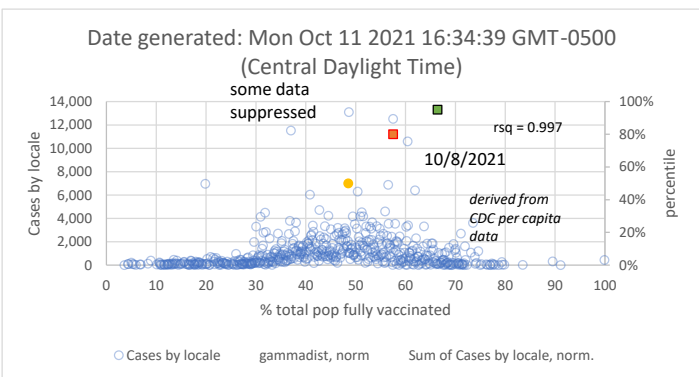
$$K = 0.318 \quad R_o = \exp(K/\gamma) = 6.42 \quad R = 84\% \quad \leq \text{Herd immunity}$$

$$\gamma = 0.171 \quad R > 1 - 1/R_o = 3.04 \quad 67\%$$

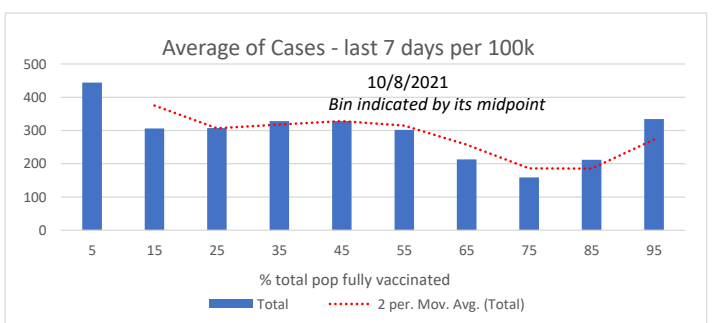
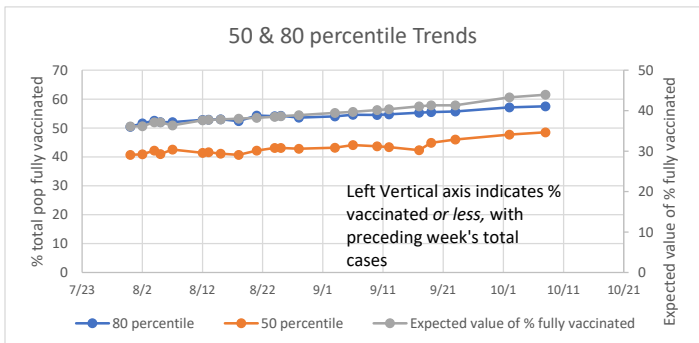
R is recovered variable.



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

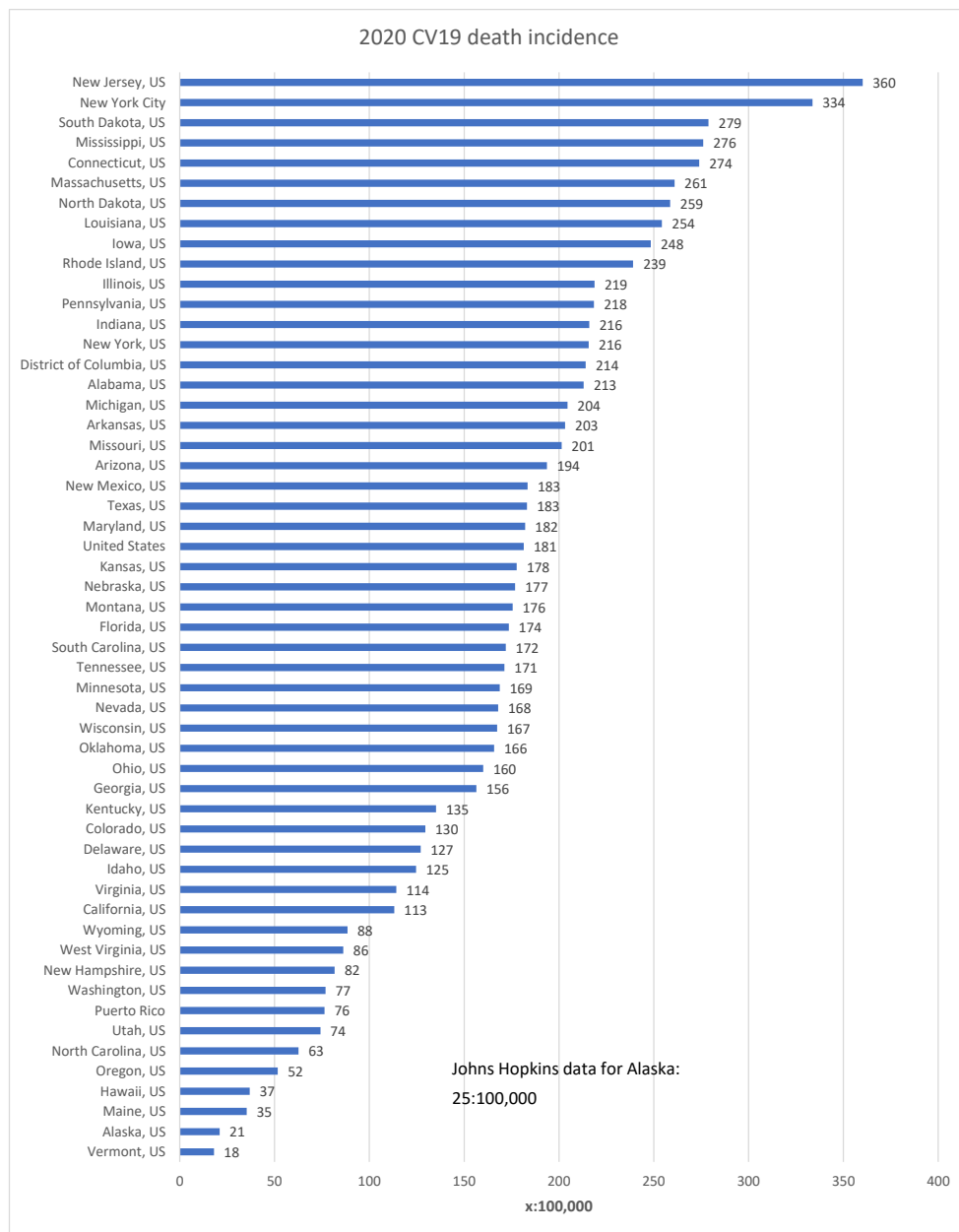


reporting jurisdictions not uniformly distributed; some data suppressed, for example, Texas



Estimates of Cases per 100k

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



<https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6/data>