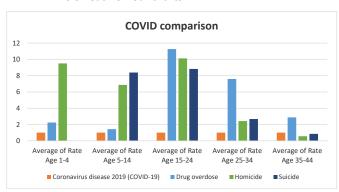
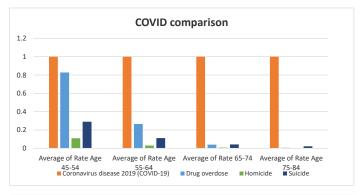
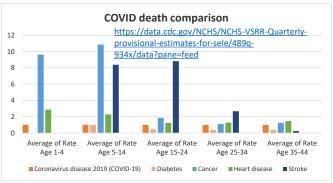
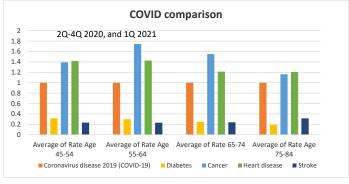


Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts

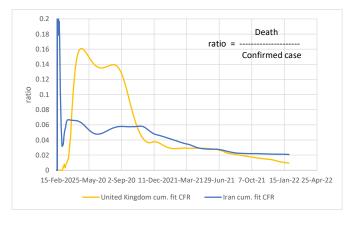


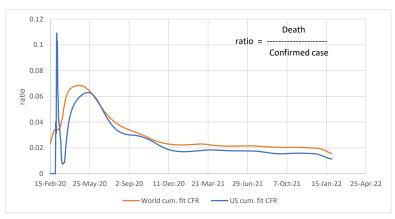




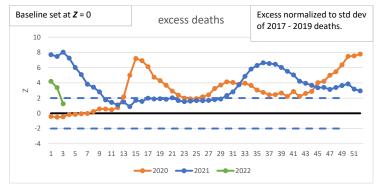


Ratios of curve fit deaths to curve fit confirmed cases (CFR)



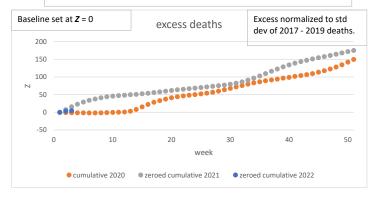


Excess deaths as a Z score:

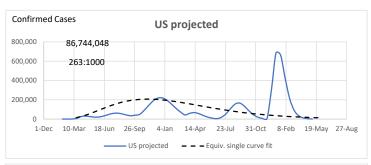


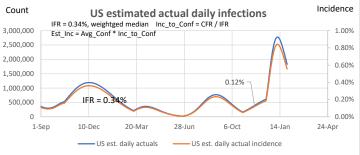
Above based on Z score of two standard deviation from 2017-2019. What follows is cumulative plot of same.

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



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



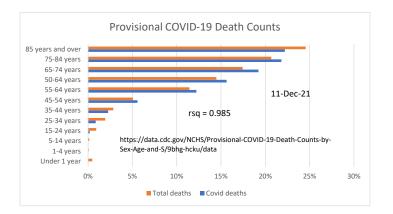


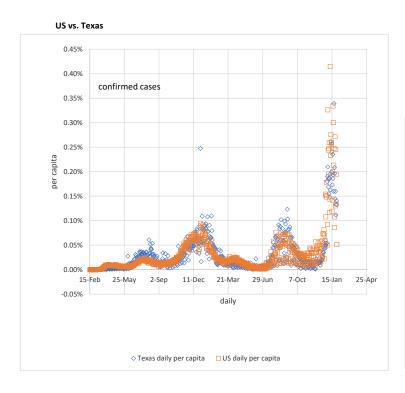
False Positives Demonstration

| Use 0.15% as estimated daily incidence | | | | | |
|--|---|---------------------|------------------|------------------------------------|--|
| Prevalence estimated a | Prevalence estimated as avg. infected period of 2 weeks X incidence | | | | |
| 95% accuracy of test | | 0.15% X 14 = 2.100% | | | |
| | Positive | Negative | | <u>Sensitivity</u> | |
| test pos | 1.995% | 4.895% | 6.89% | Probability of detection | |
| test neg | 0.105% | 93.005% | 93.11% | where condition exists | |
| | 2.100% | 97.900% | 100.00% | True + / (True + & False -) | |
| | | | | 95% | |
| False pos. is more than half of total positives. | | | Specificity | | |
| TRUE + | 1.995%/6.8 | 39% | 29.0% | Probability of not detecting where | |
| FALSE + | 4.895%/6.8 | 39% | 71.0% | condition doesn't exist | |
| Total | | | 100.00% | True - / (True - & False +) | |
| | | | | 95% | |
| | | Evample only | v concitivity or | ad specifity not necessarily equal | |

Example only; sensitivity and specifity 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 |
| https://data.cdc.gov/NC | CHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data |

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

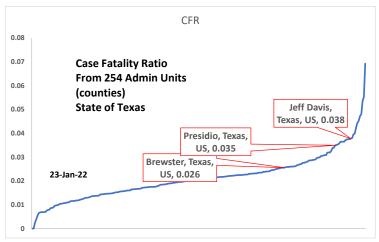
| | 52 weeks | All Cause | All Cause, excl. CV19 | CV19 |
|---|------------------------|---|-----------------------|------------------------|
| 3 | yr average before 2020 | 859:100,000 | 859:100,000 | - |
| | 2021 | 1045:100,000 | 903:100,000 | - |
| | Diff. | 186:100,000 | 44:100,000 | 142:100,000 |
| | 3 yr average | | | Linear Year Projection |
| | 859:100,000 | 24% of All-Cause excess deaths not CV19 | | 142:100,000 |

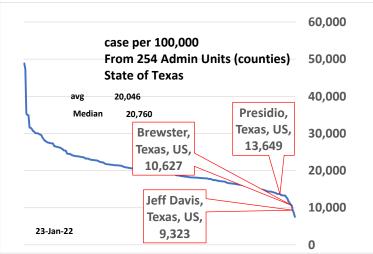
USA Excess Deaths to date (2022, from CDC data):

| | 3 weeks | All Cause | All Cause, excl. CV19 | CV19 |
|---|------------------------|------------|-----------------------|------------|
| 3 | yr average before 2020 | 34:100,000 | 34:100,000 | - |
| | 2022 | 58:100,000 | 48:100,000 | - |
| | Diff. | 25:100,000 | 14:100,000 | 11:100,000 |

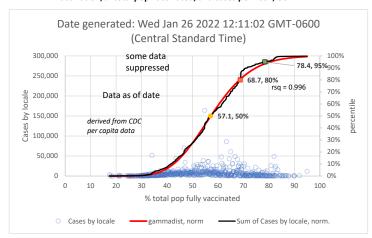
| 3 yr average | Linear | Year Projection |
|--------------|---|-----------------|
| 859:100,000 | 56% of All-Cause excess deaths not CV19 | 275:100,000 |

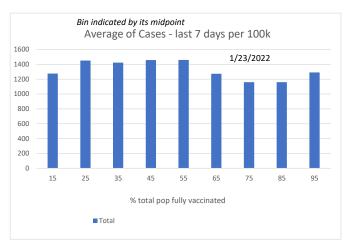
Tri-Counties in Texas:

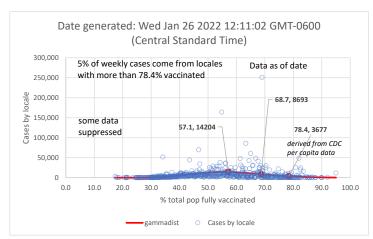


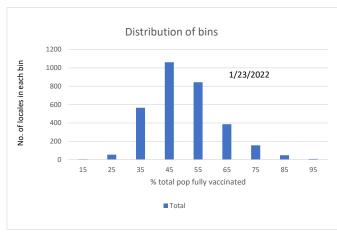


Vaccination, % total pop vaccinated, and cases per 100k, USA









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