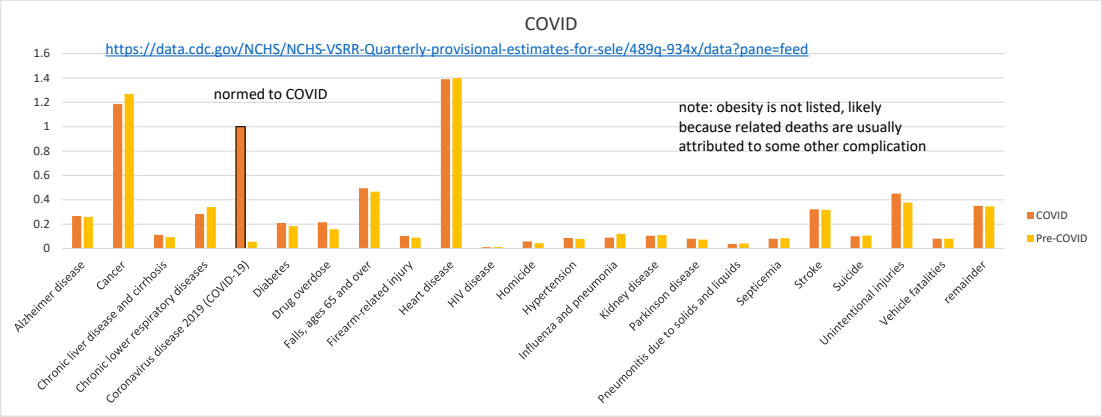
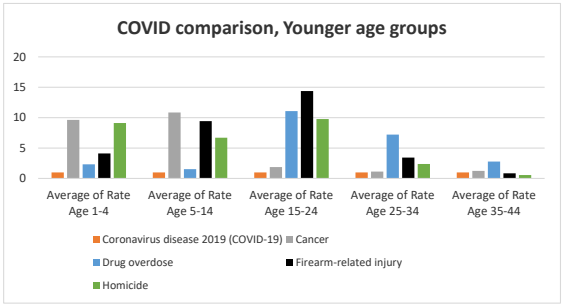
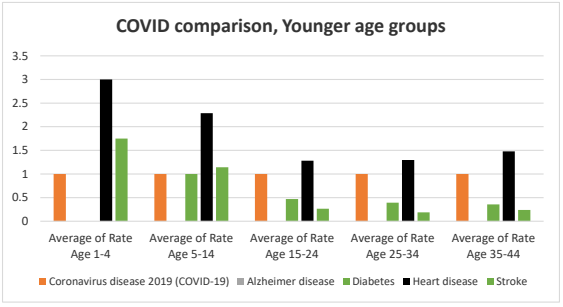
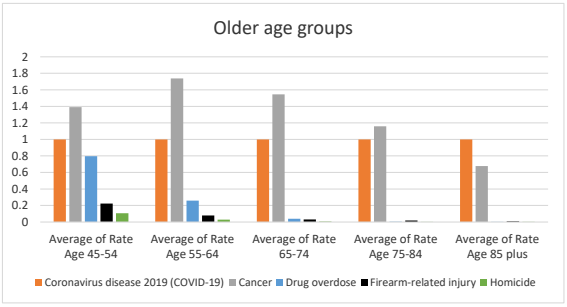
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA

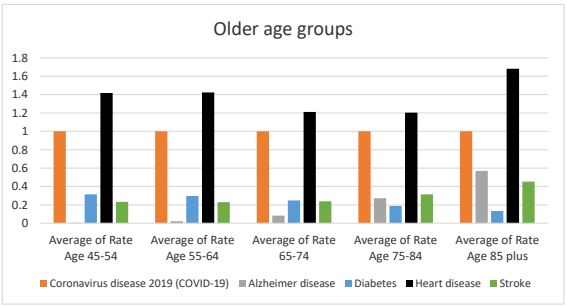


Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts, USA

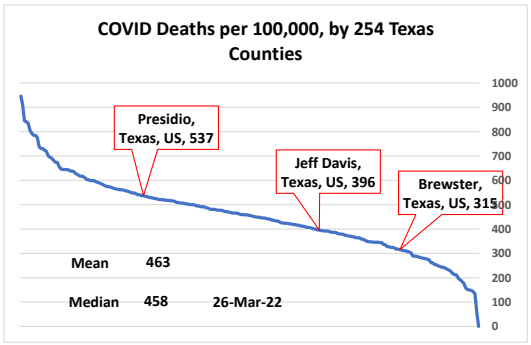


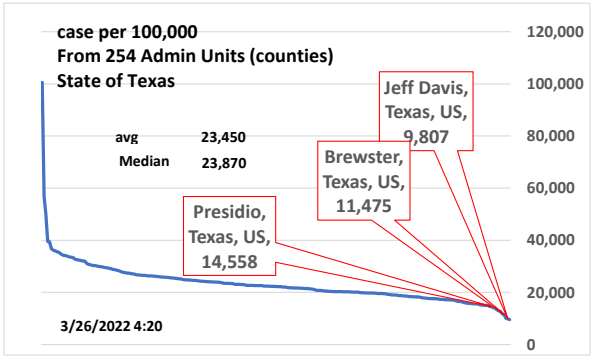


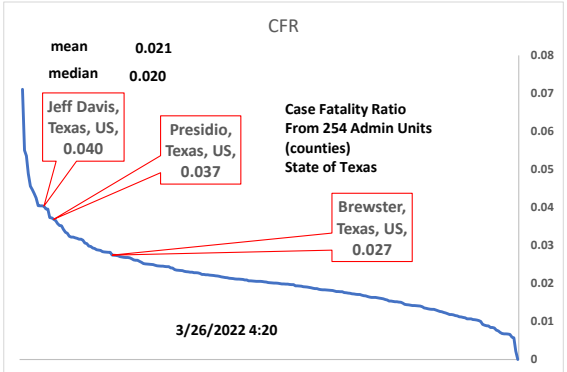




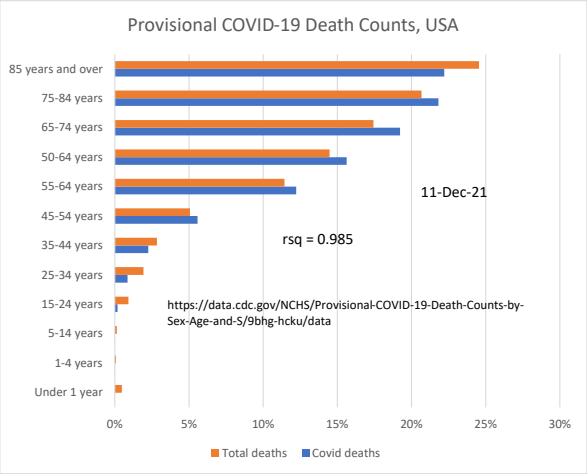
Texas and Tri-county comparisons

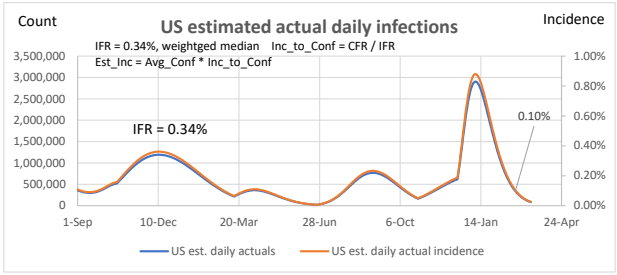






https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data





False Positives Demonstration

Use 0.19% as estimated daily incidence

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

95% accuracy of test

0.19% X 14 = 2.660%

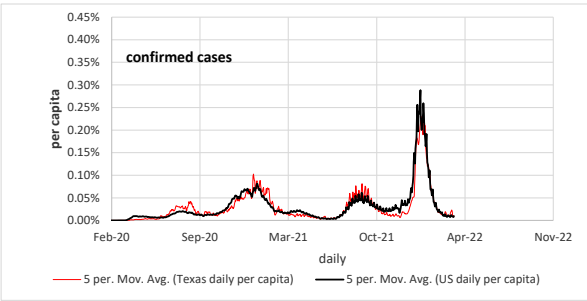
	Positive	Negative		
test pos	2.527%	4.867%	7.39%	Sensitivity
test neg	0.133%	92.473%	92.61%	Probability of detection where condition exists
	2.660%	97.340%	100.00%	True + / (True + & False -)
				95%

False pos. is more than half of total positives.

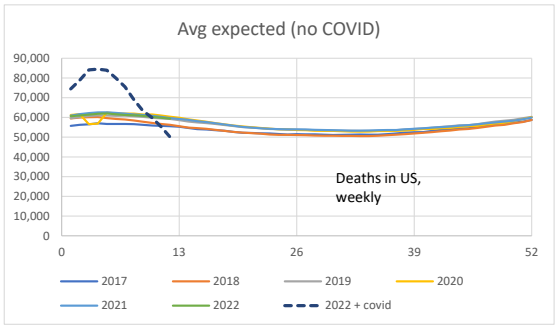
TRUE +	2.527%/7.39%	34.2%	Specificity
FALSE +	4.867%/7.39%	65.8%	Probability of not detecting where condition doesn't exist
Total	----------	100.00%	True - / (True - & False +)
			95%

Example only; sensitivity and specifity not necessarily equal.

US vs. Texas



Average and Excess Deaths:



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

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

USA Excess Deaths, 2021 (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	-
2021	1052:100,000	909:100,000	-
Diff.	193:100,000	50:100,000	143:100,000

26% of All-Cause excess deaths are non-CV19

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

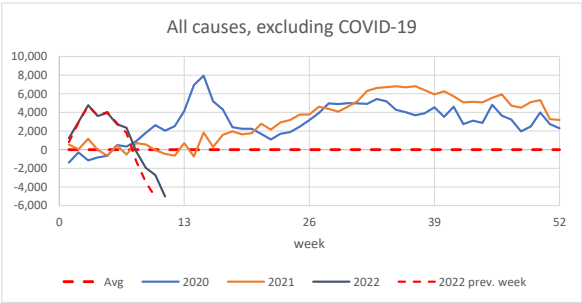
Week 12	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	215:100,000	215:100,000	-
2022	260:100,000	215:100,000	-
Diff.	45:100,000	-0.4:100,000	46:100,000

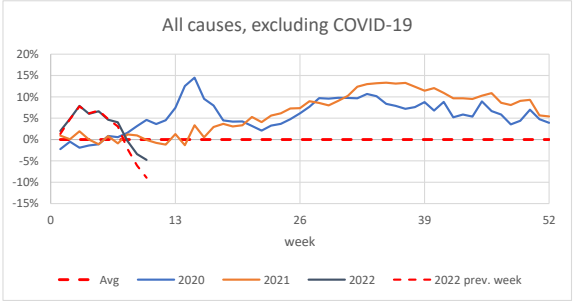
3 yr average
859:100,000

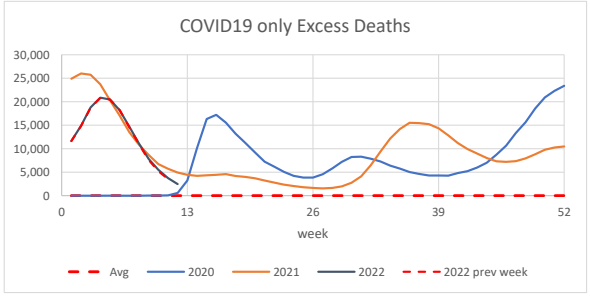
-1% of All-Cause excess deaths not CV19

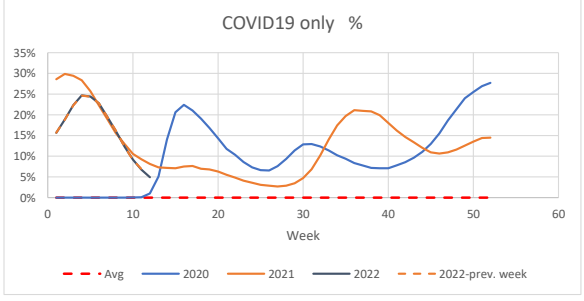
Linear Year Projection 197:100,000

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



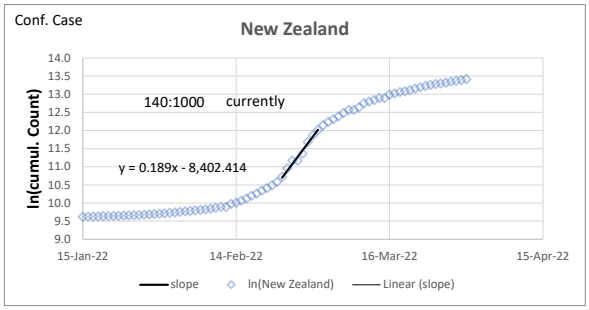


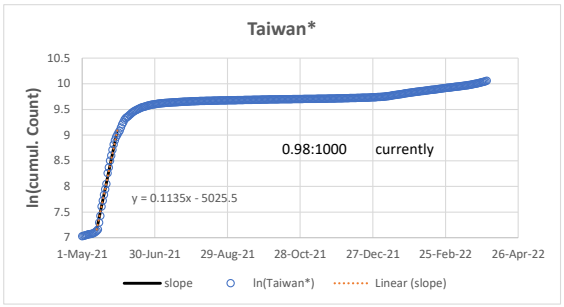


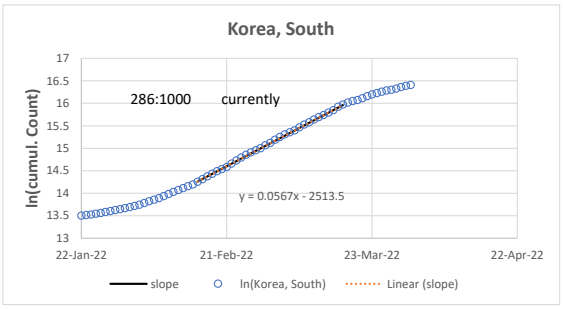


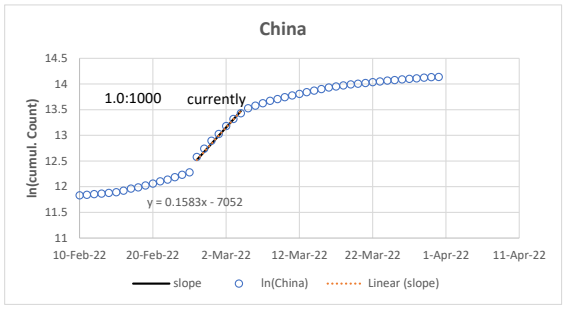
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely underreported. Therefore, last two weeks of 2022 not shown here. The previous week's data is shown as dashed, to give an idea of the effect of the gradual update.

Recent exponential growth examples:

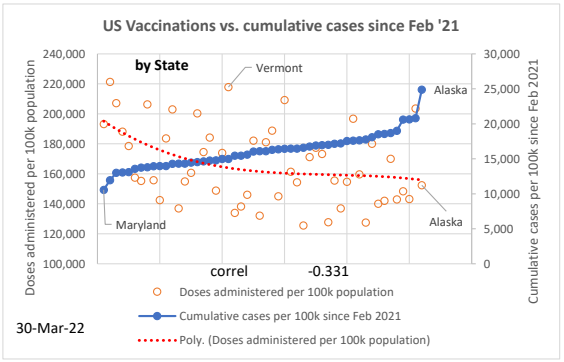


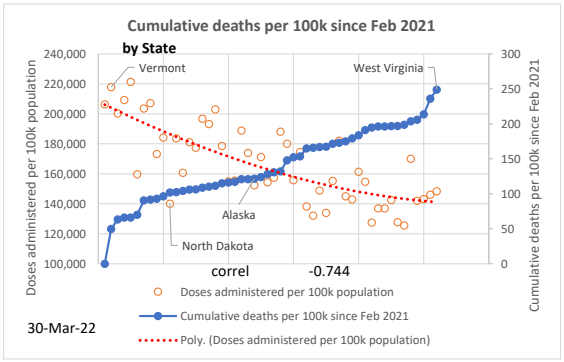






Vaccinations and cumulative outcomes:





https://healthdata.gov/api/views/gqxm-d9w9/files/69321a61-c9f9-4fa5-8999-4ba27b172021?download=true&filename=Community%20Profile%20Report%2020220328.xlsx
https://github.com/CSSEGISandData/COVID-19/blob/master/csse_covid_19_data/csse_covid_19_daily_reports_us/03-29-2022.csv