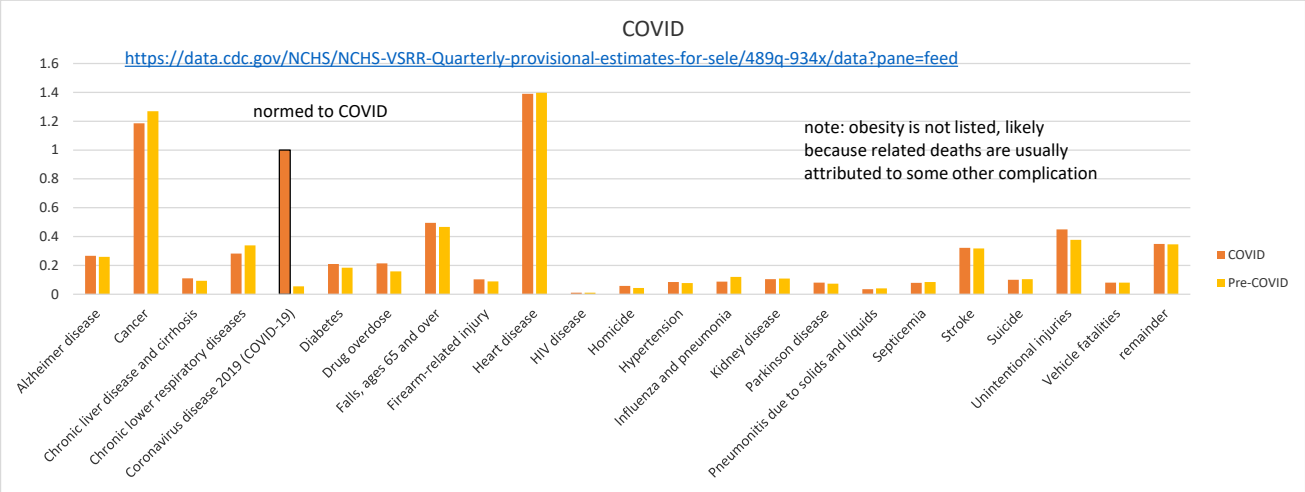
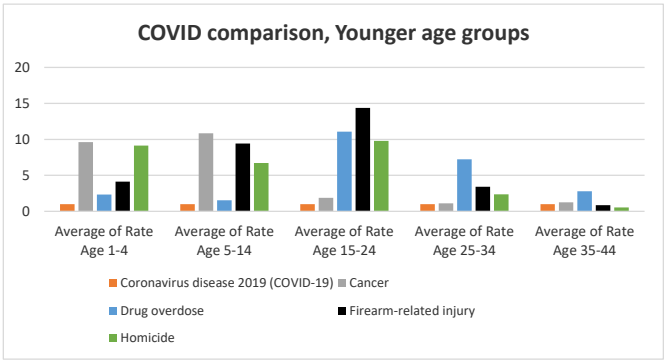
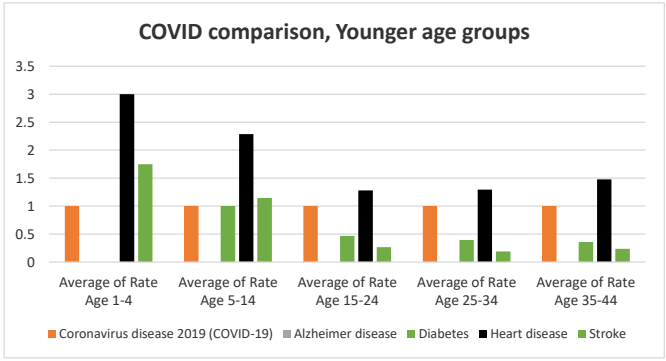
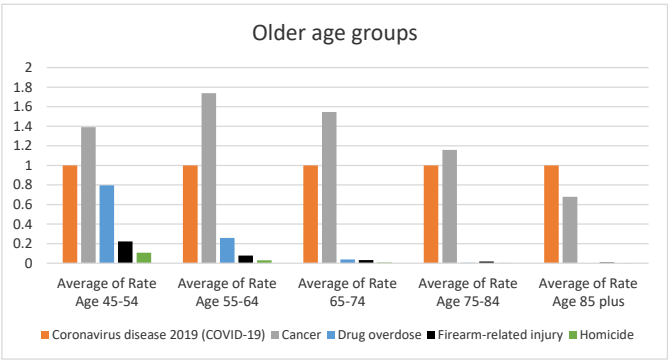
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA

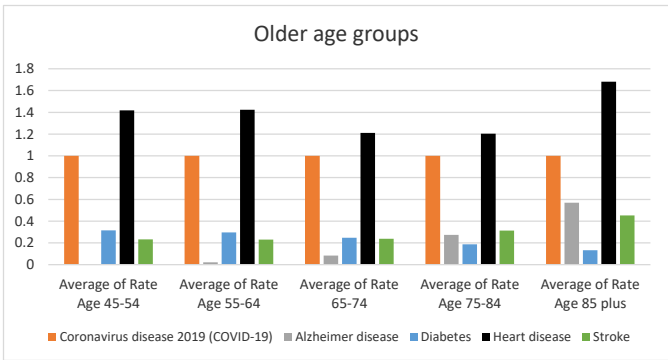


Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts, USA

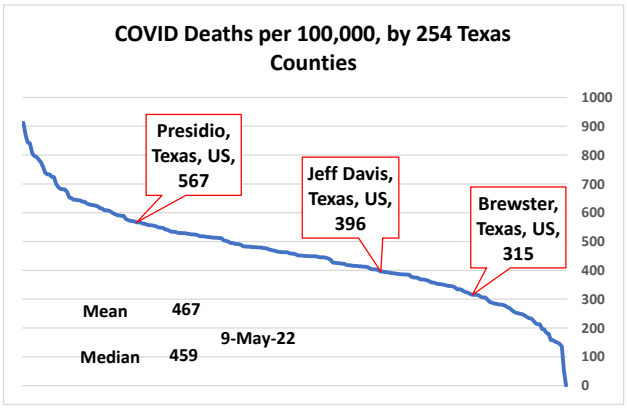


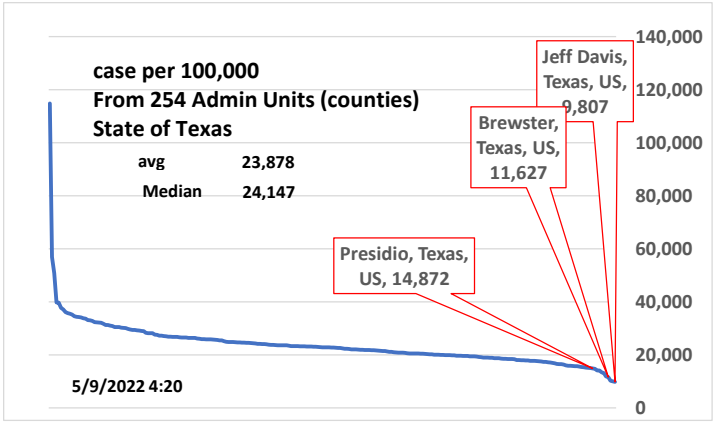




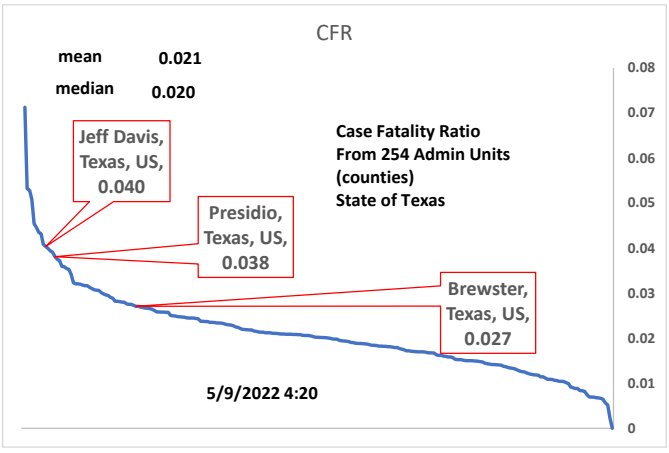


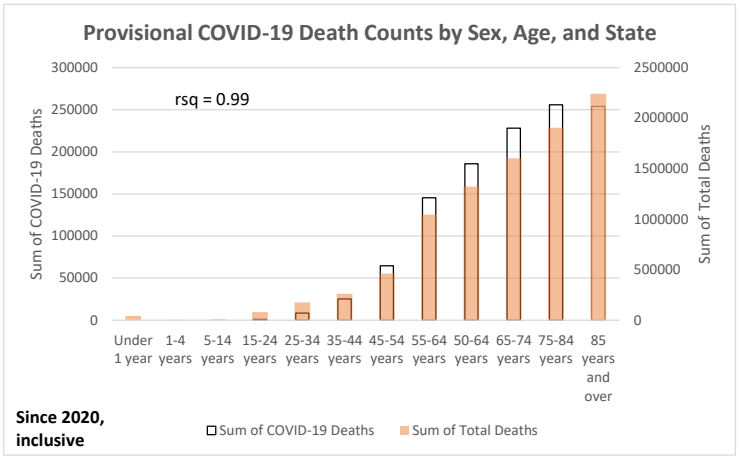
Texas and Tri-county comparisons



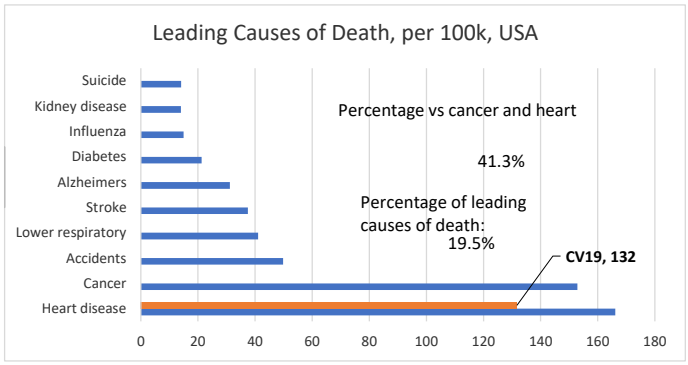


https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data





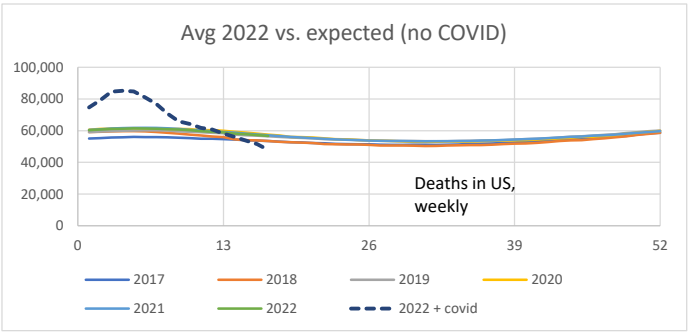
https://data.cdc.gov/NCHS/Conditions-contributing-to-deaths-involving-corona/hk9y-quqm/data



	Under 65	Over 65
All	26.0%	74.0%
COVID-19	25.5%	74.5%

Conditions Contributing to COVID-19 Deaths, by State and Age, Provisional 2020-2022
This dataset shows health conditions and contributing causes mentioned in conjunction with deaths involving coronavirus disease 2019 (COVID-19) by age group and jurisdiction of occurrence.
2020-2022 data are provisional.

Average and Excess Deaths:



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%
test neg	0.133%	92.473%	92.61%
	2.660%	97.340%	100.00%

False pos. is more than half of total positives.

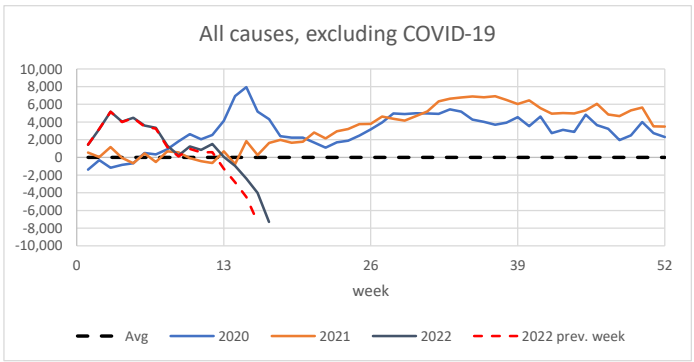
TRUE +	2.527%/7.39%	34.2%
FALSE +	4.867%/7.39%	65.8%
Total	----------	100.00%

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%

Example only; sensitivity and specifity not necessarily equal.

Average and Excess Deaths (cont'd):



USA Excess Deaths, 2020 (from CDC data):

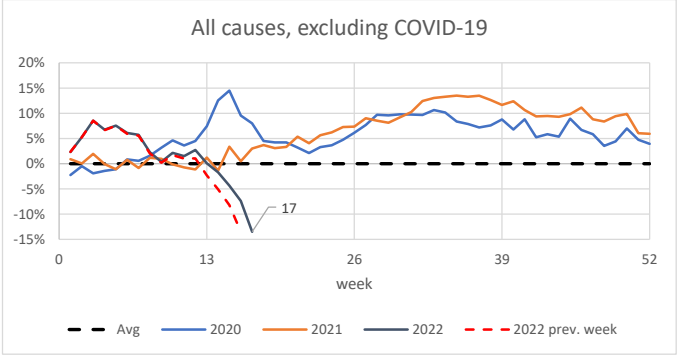
Annualized on 52 weeks			
	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2020	1016:100,000	905:100,000	-
Diff.	157:100,000	46:100,000	111:100,000

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	51:100,000	143:100,000

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



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

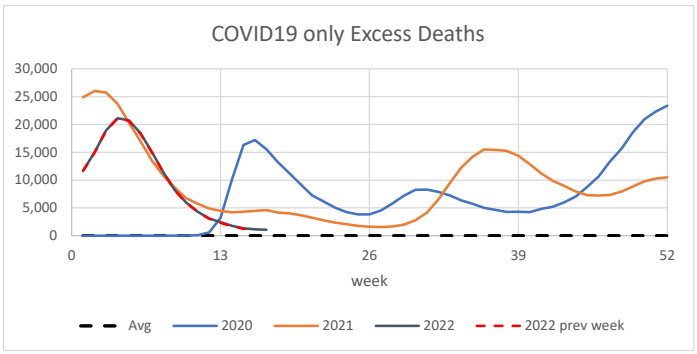
Week 17	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	298:100,000	298:100,000	-
2022	351:100,000	302:100,000	-
Diff.	52:100,000	3.3:100,000	49:100,000

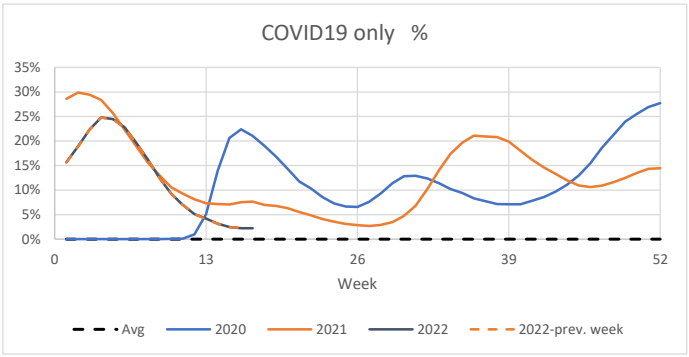
3 yr average
859:100,000

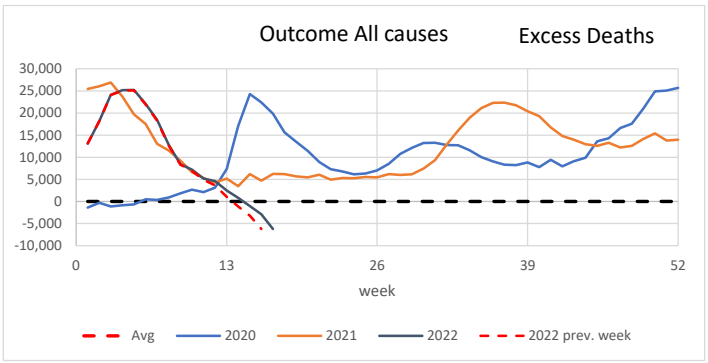
6% of All-Cause excess deaths not CV19

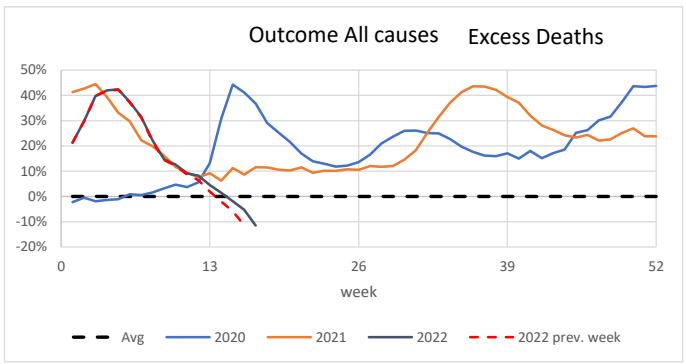
Linear Year Projection
150:100,000

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



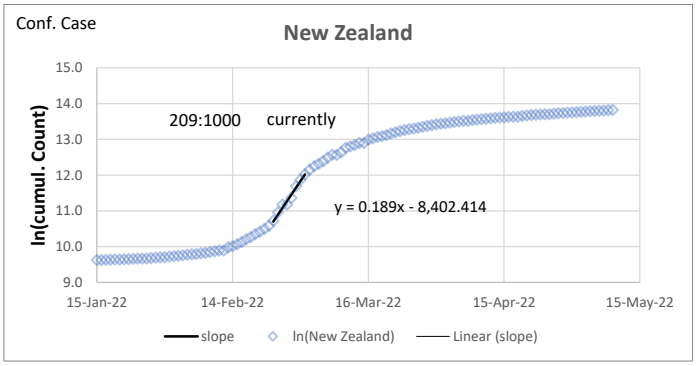


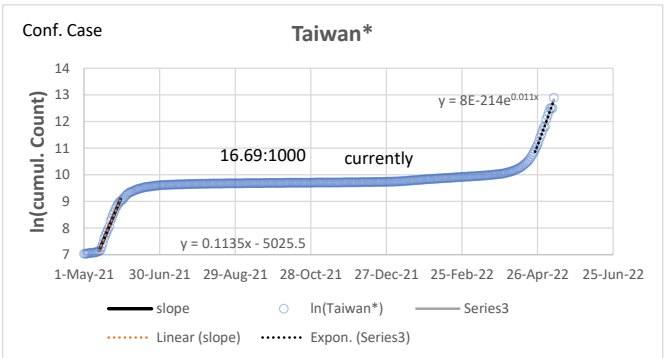


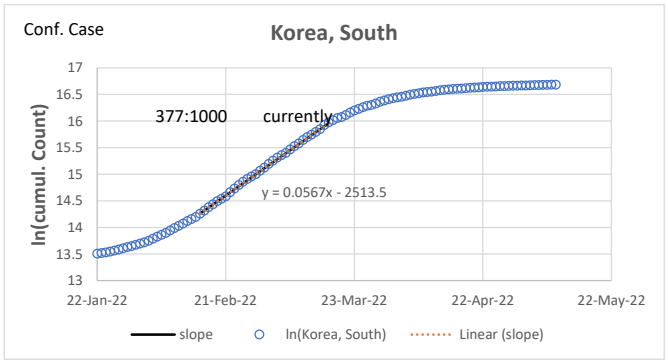


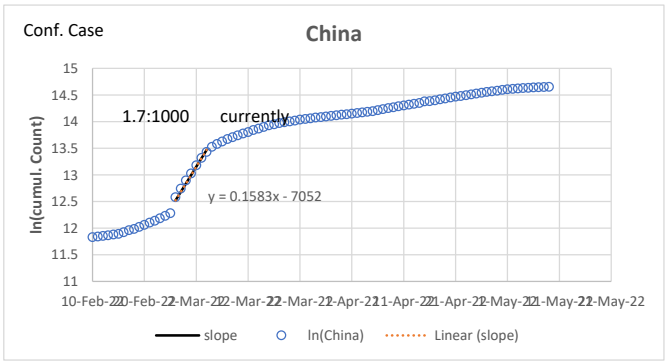
Data in recent weeks are incomplete. Only 60% of death records are submitted to NCHS within 10 days of the date of death, and completeness varies by jurisdiction. Data are not weighted and counts are likely underreported. The previous week's data is shown as dashed, to give an idea of the effect of the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

Recent exponential growth examples:



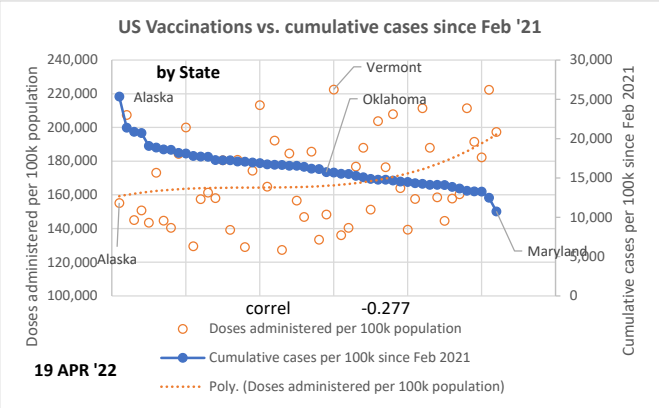


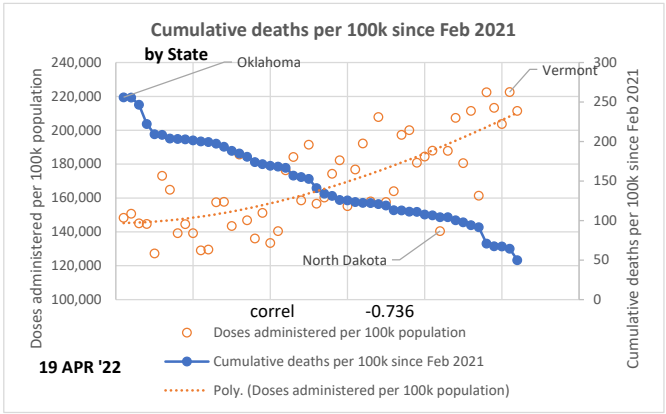




Vaccinations and cumulative outcomes:

(Feb 2021 picked because that's about when vaccines became available)





https://healthdata.gov/Health/COVID-19-Community-Profile-Report/gqxm-d9w9

https://github.com/CSSEGISandData/COVID-19/blob/master/csse_covid_19_data/csse_covid_19_daily_reports_us/03-29-2022.csv