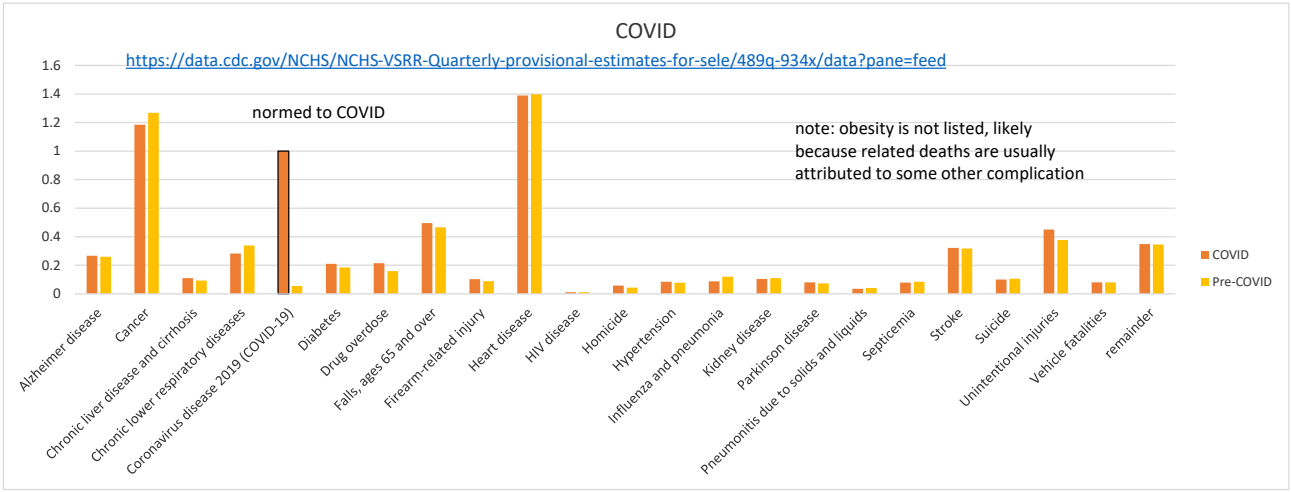
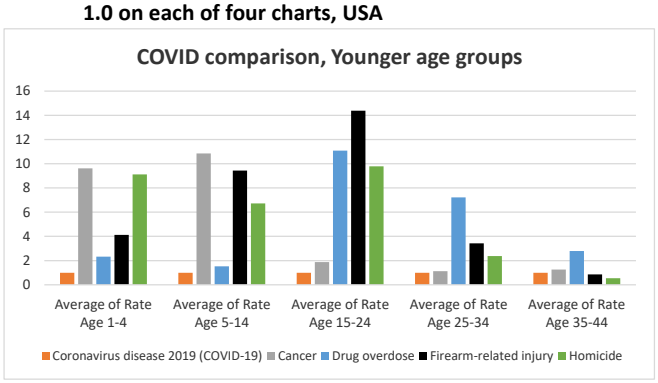
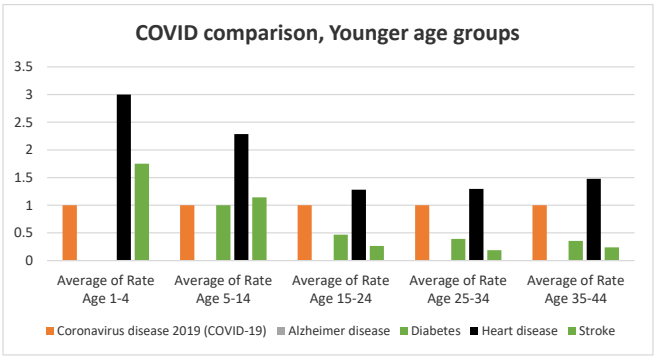
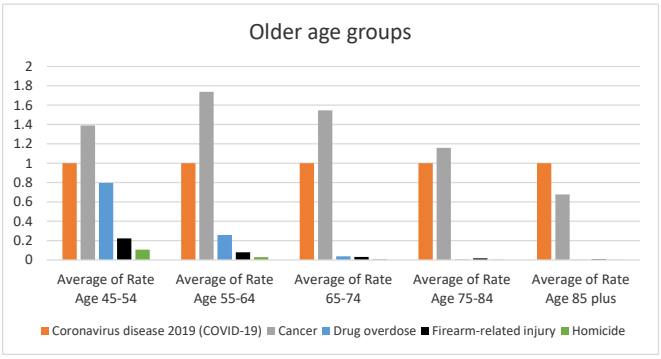
Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA

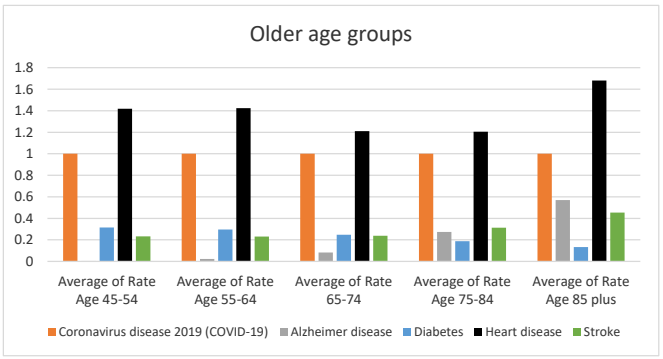


Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts, USA

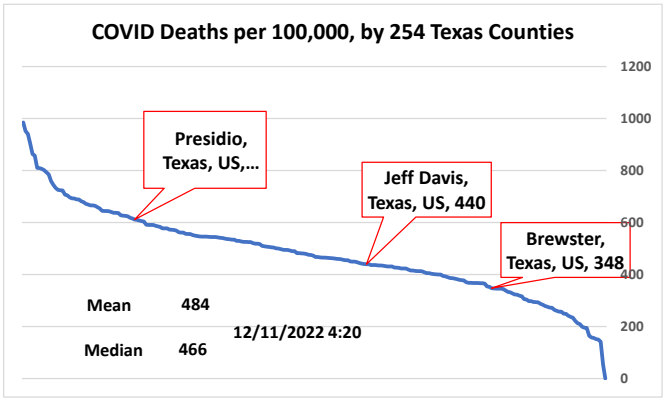


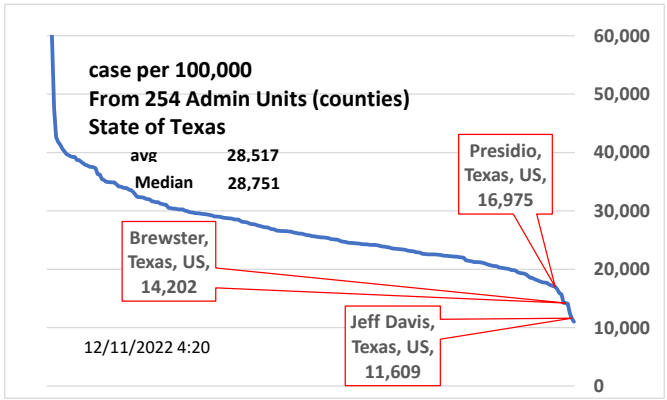






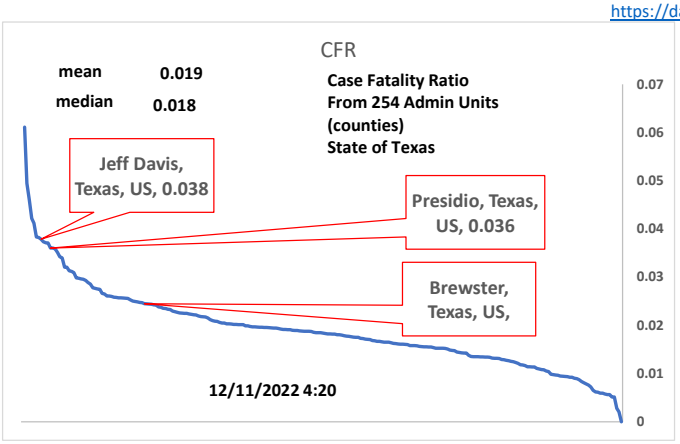
Texas and Tri-county comparisons

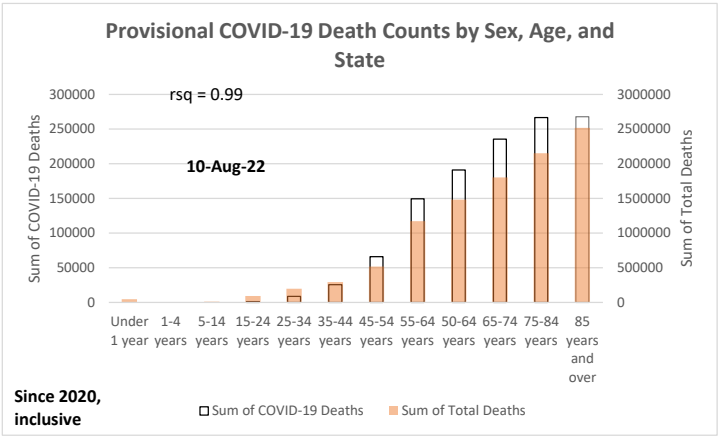




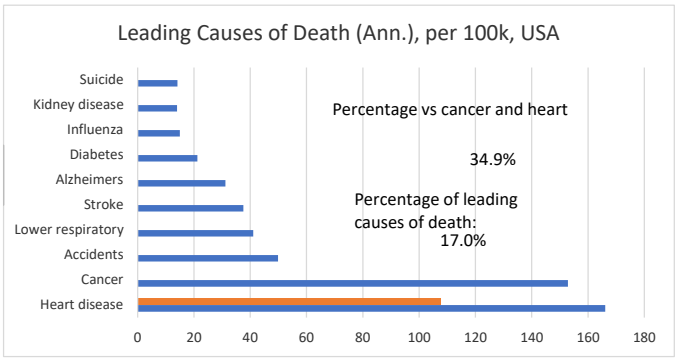
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku/data





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

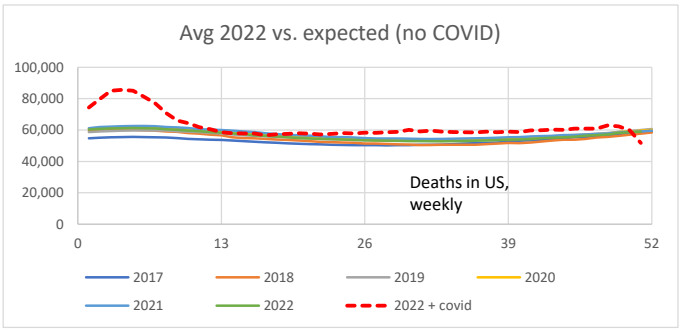


	Under 65	Over 65
All	26.0%	74.0%
COVID-19	25.5%	74.5%

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: **17-Dec-22**



<u>False Positives Demonstration</u>

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%

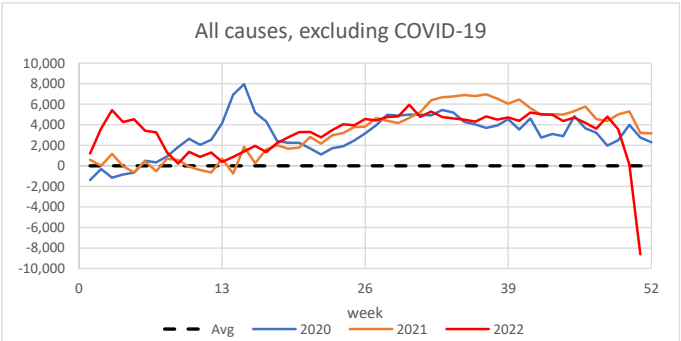
False pos. is more than half of total positives.

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

<u>Sensitivity</u>
Probability of detection where condition exists
True + / (True + & False -)
95%

<u>Specificity</u>
Probability of not detecting where condition doesn't exist
True - / (True - & False +)
95%

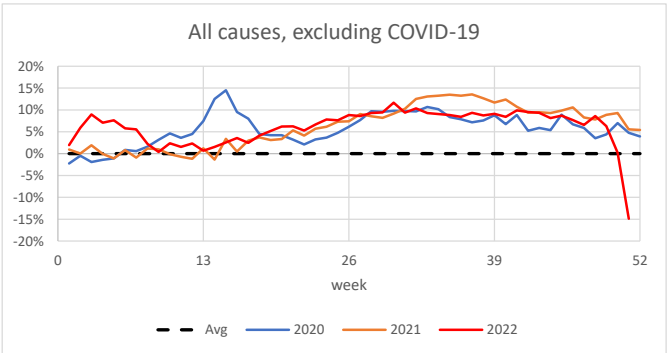
Example only; sensitivity and specifity not necessarily equal.



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

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 51	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	841:100,000	841:100,000	-
2022	965:100,000	890:100,000	-
Diff.	124:100,000	49:100,000	75:100,000

2022 Linear Year Projection

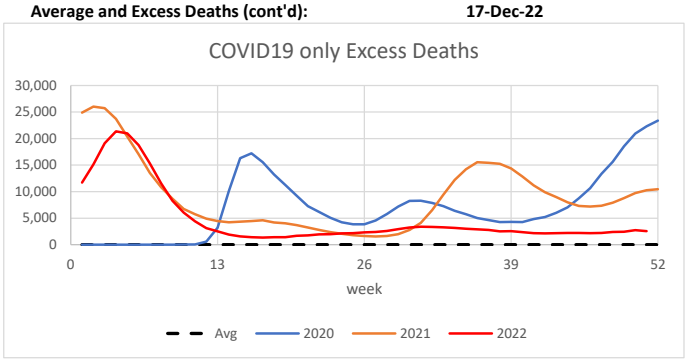
40% of All-Cause excess deaths not CV19 76:100,000

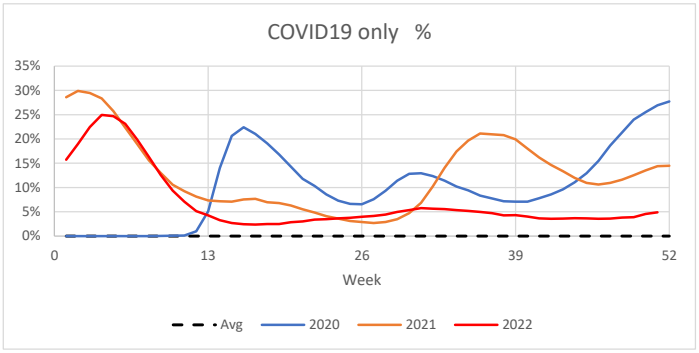
https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkkf-xrst/data

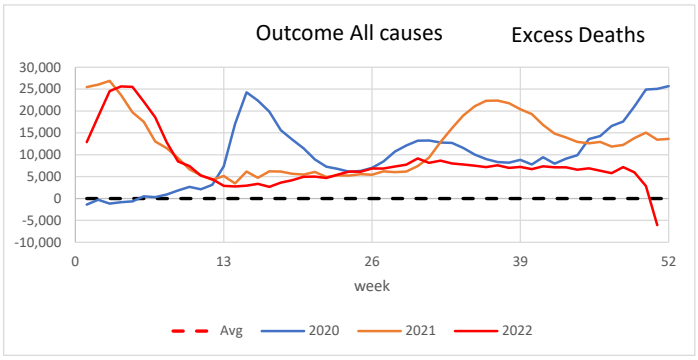
Total, latest update	474:100,000	145:100,000	329:100,000
Annualized	161:100,000	49:100,000	112:100,000

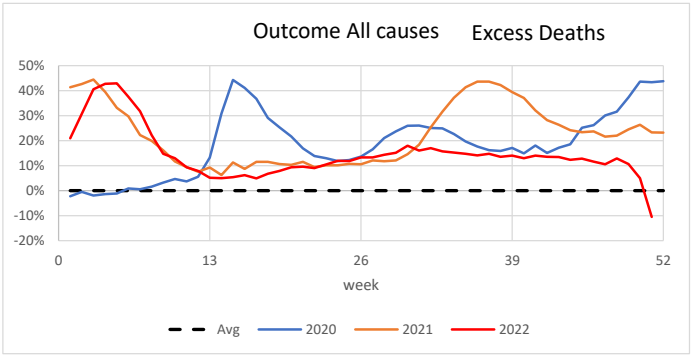
31% of All-Cause excess deaths not CV19

Average and Excess Deaths (cont'd): **17-Dec-22**

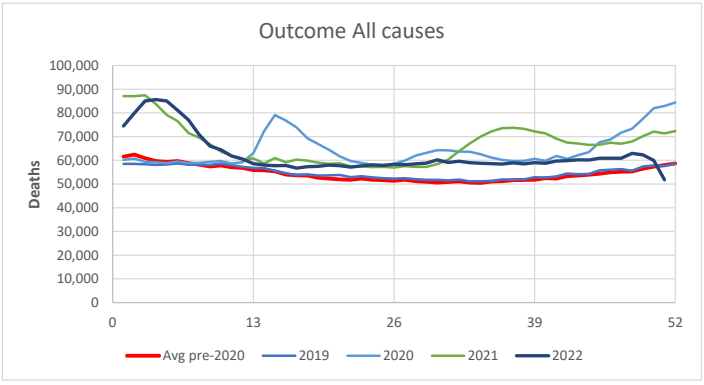






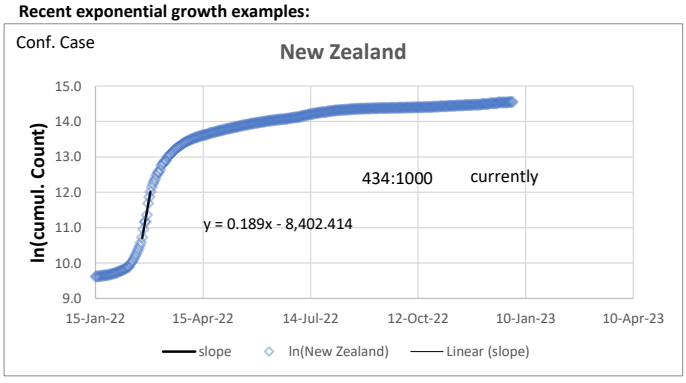


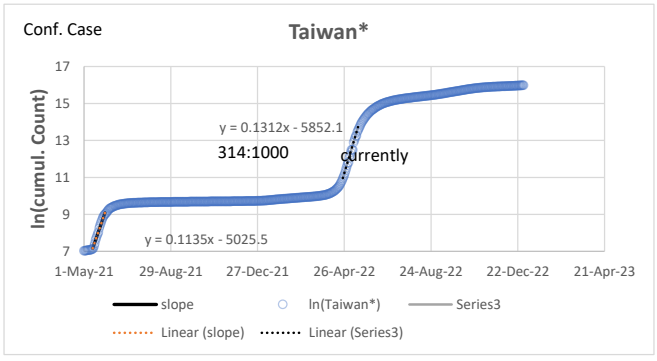
(CDC started updating this again 02 July 2022)



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.

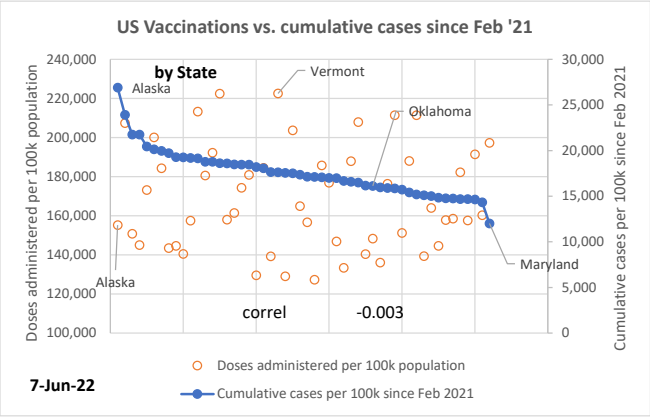
Recent exponential growth examples:

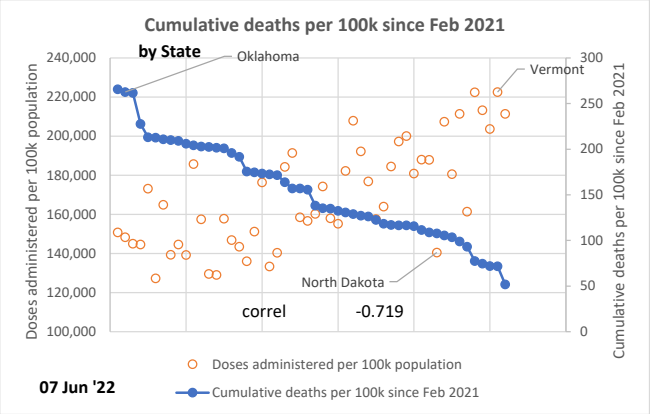




Vaccinations and cumulative outcomes:

(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