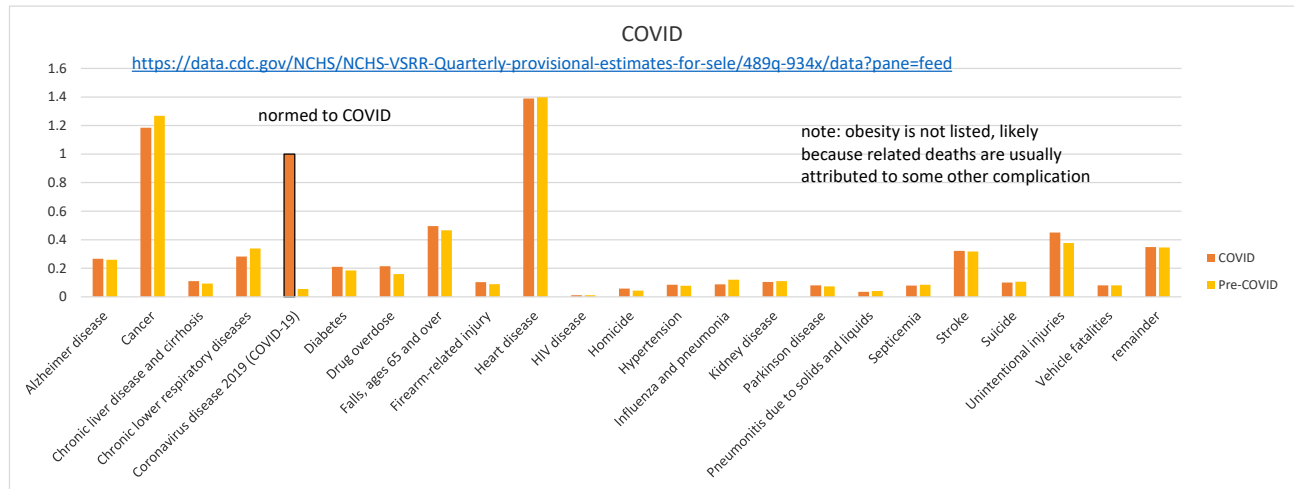
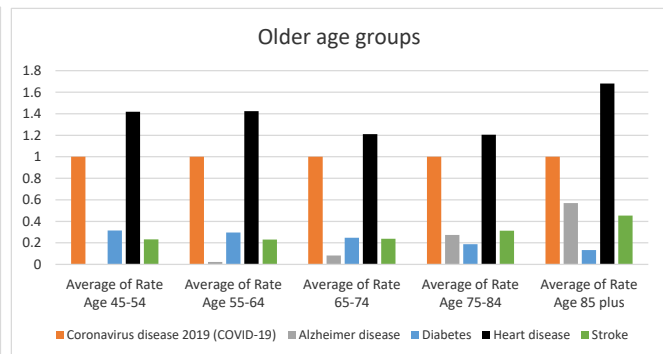
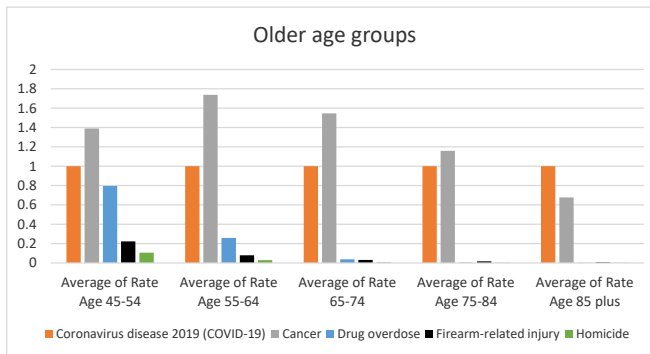
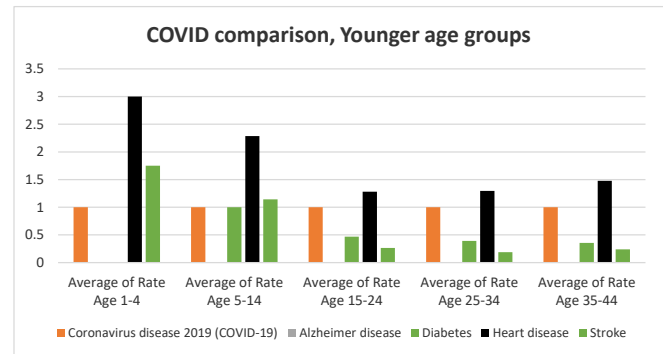
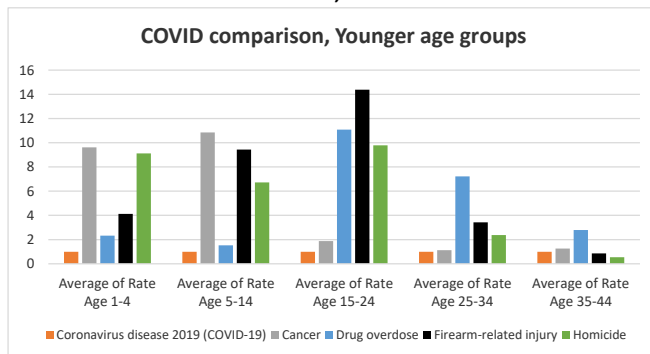


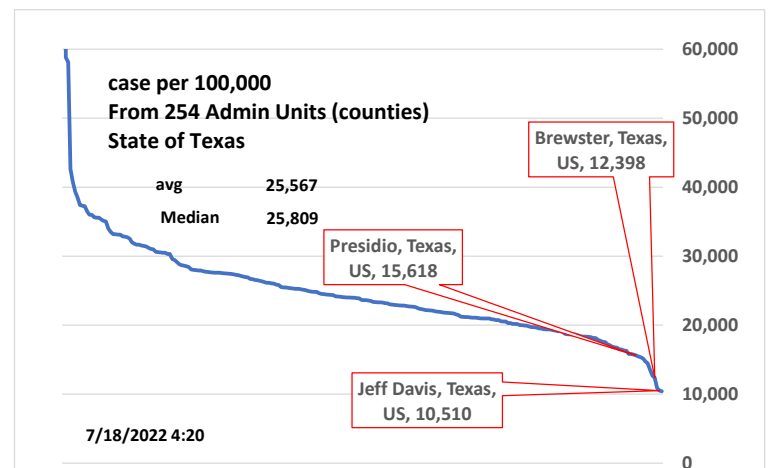
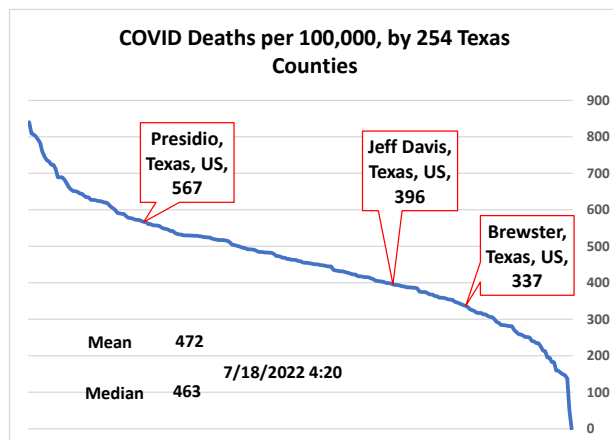
# Common causes of death, normalized to COVID. Pre-Covid: 1Q2017 thru 1Q2020, Post-Covid 2Q2020 thru 1Q2021, USA

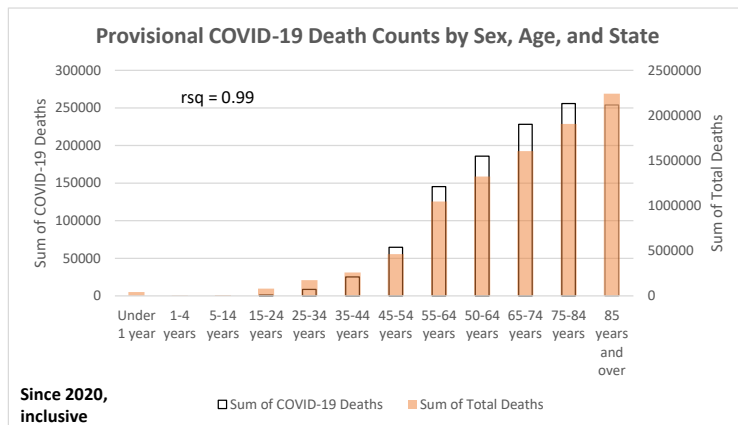
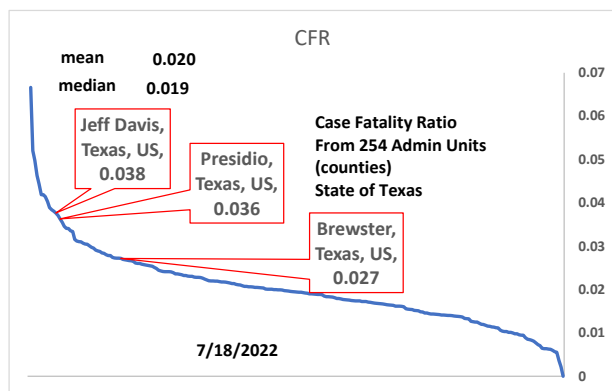


## Relative effect of COVID on various age groups, and compared to cause of death. These are all relative to COVID, which is 1.0 on each of four charts, USA

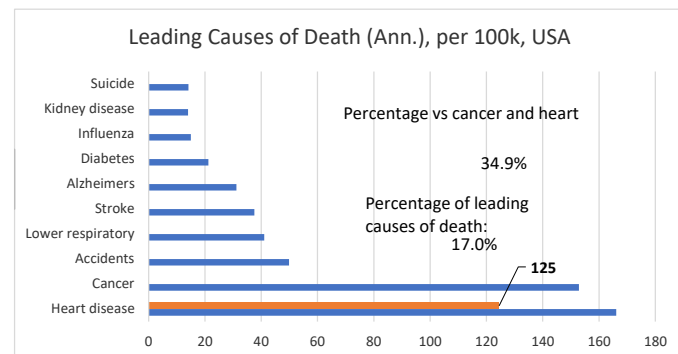


## Texas and Tri-county comparisons





<https://data.cdc.gov/NCHS/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.

#### False Positives Demonstration

Use 0.19% as estimated daily incidence

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

	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.

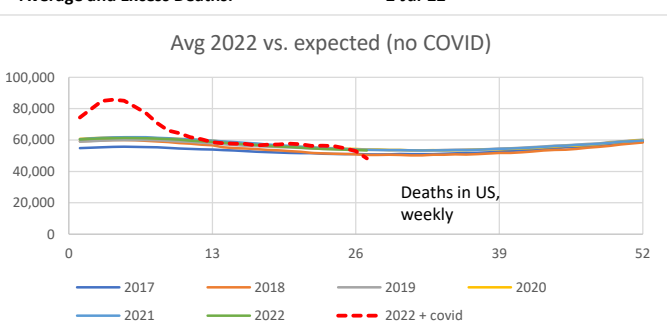
TRUE +	2.527%/7.39%	34.2%
FALSE +	4.867%/7.39%	65.8%
Total		100.00%

0.19% X 14 = 2.660%
<b>Sensitivity</b>
Probability of detection where condition exists
True + / (True + & False -)
95%
<b>Specificity</b>
Probability of not detecting where condition doesn't exist
True - / (True - & False +)
95%

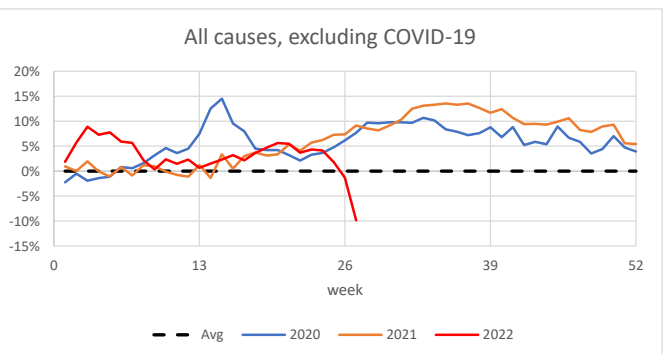
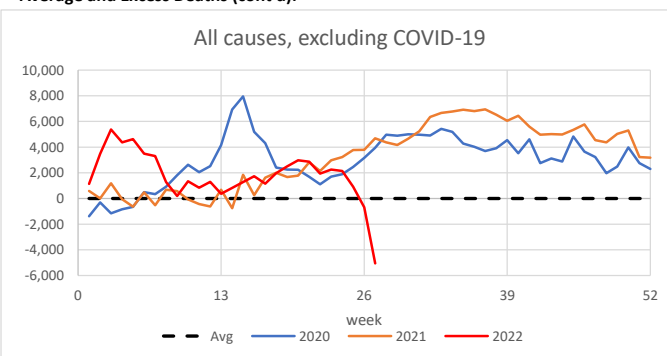
Example only; sensitivity and specificity not necessarily equal.

#### Average and Excess Deaths:

2-Jul-22



#### 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	50:100,000	143:100,000

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

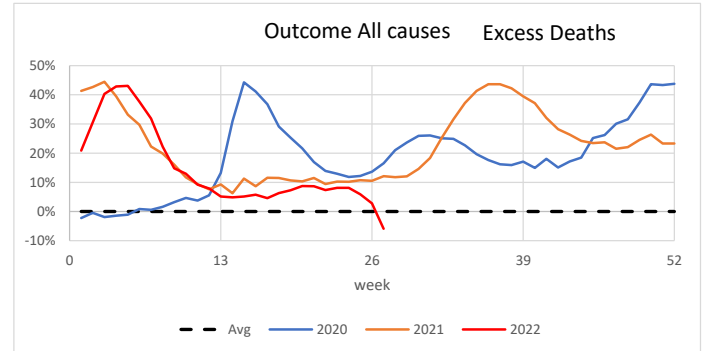
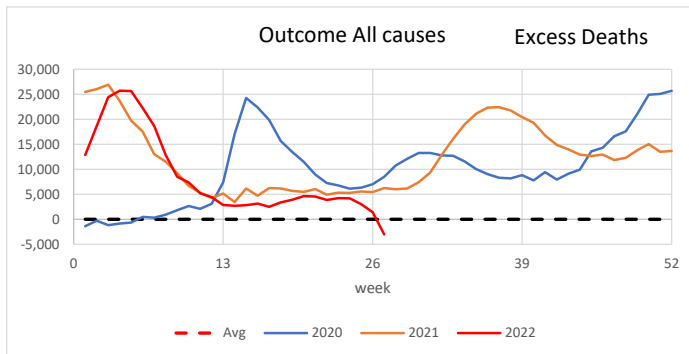
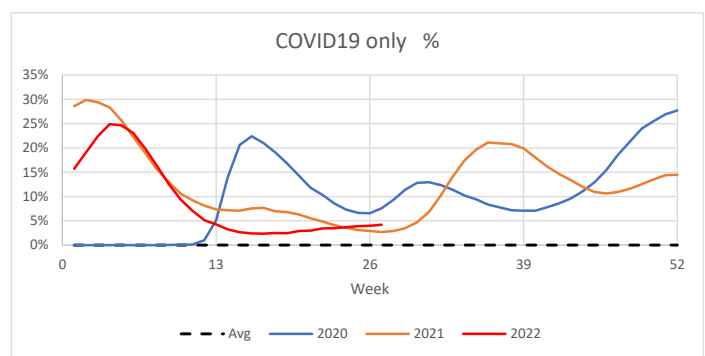
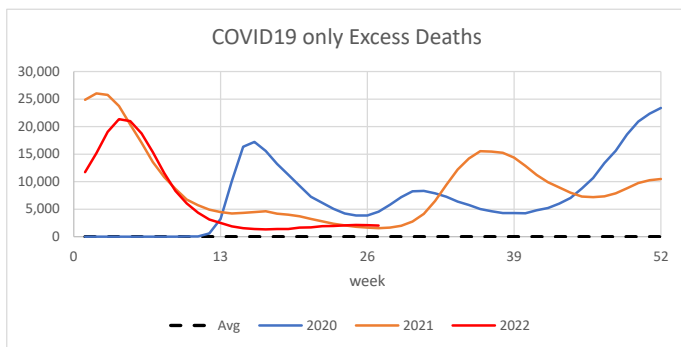
#### USA Excess Deaths to date (2022, from CDC data):

Week 27	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	456:100,000	456:100,000	-
2022	525:100,000	470:100,000	-
Diff.	69:100,000	14:100,000	55:100,000

3 yr average	Linear Year Projection
859:100,000	20% of All-Cause excess deaths not CV19 107:100,000

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

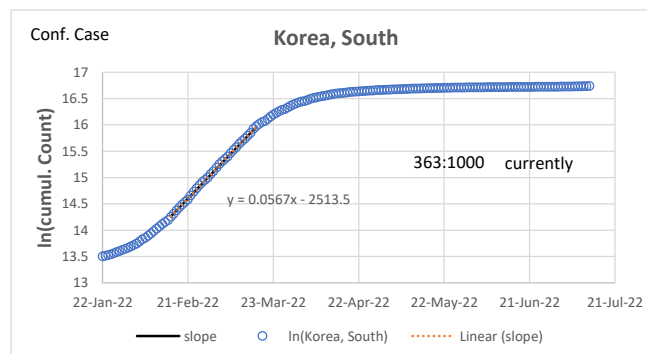
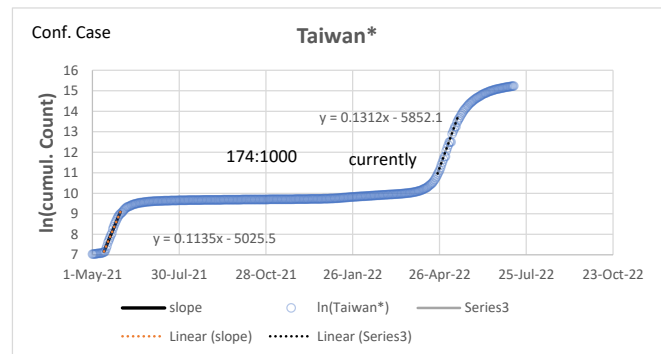
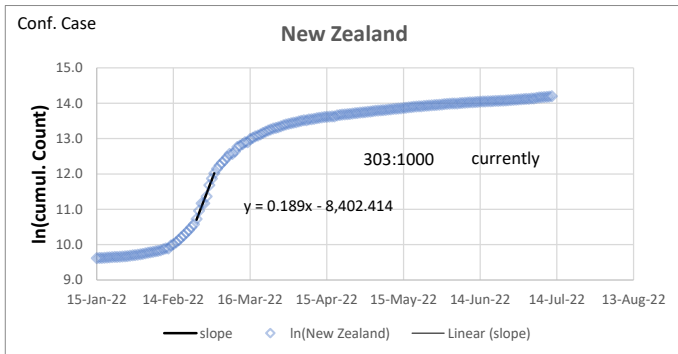
Total, latest update	419:100,000	110:100,000	310:100,000
Annualized	169:100,000	44:100,000	124:100,000



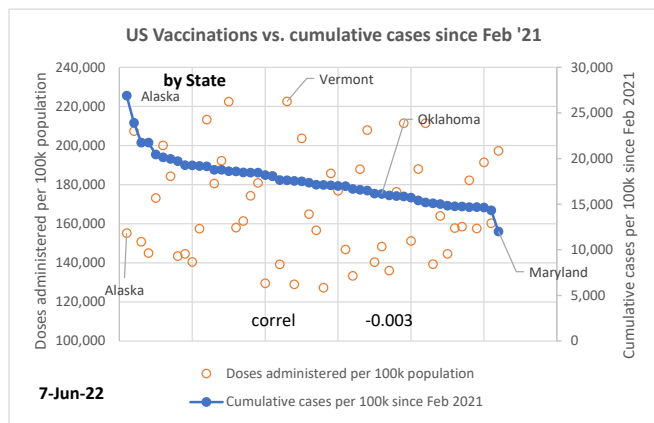
(CDC started updating this again 02 July 2022)

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:



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

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

